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**Add your introductions here!**

# Namespace RetailForce.Fiscalisation

## Classes

### [CloudConnector](#)

Client connector for retailforce cloud connections.

### [FiscalModuleCreator](#)

This class can be used to create the fiscal module for the specific client (with all necessary sub modules loaded).

### [FiscalModuleManagement](#)

Class for managing the fiscal module.

### [FiscalResponse](#)

The fiscal response of the fiscalisation system.

### [Helper](#)

### [QrCode](#)

Helper class for generating qr codes.

### [ServiceConfigurationBase](#)

Base class for service configuration.

### [TrustedFiscalModule](#)

Part for audit log methods.

### [TrustedFiscalModuleBase](#)

Base class for [TrustedFiscalModule](#) and `TrustedFiscalModuleImplementationBase<IClientConfiguration, TRequiredAttribute>`.

## Interfaces

### [IDocumentInterface](#)

Represents a document interface. Document interfaces can be [IFiscalModulImplementation](#) interfaces or [IStorageProvider](#) interfaces.

### [IFiscalModulImplementation](#)

A country specific implementation has to implement this interface.

# Class CloudConnector

Client connector for retailforce cloud connections.

## Inheritance

### [object](#)

LoggingBase

RestServiceBasicClient<ApiErrorMode>

RestServiceClient<AuthenticationResponse, ApiErrorMode>

CloudConnector

[CloudClient](#)

## Implements

### [IDisposable](#)

## Inherited Members

RestServiceClient<AuthenticationResponse, ApiErrorMode>.ApiKey

RestServiceClient<AuthenticationResponse, ApiErrorMode>.Authenticated

RestServiceClient<AuthenticationResponse, ApiErrorMode>.AuthenticationResponse

[RestServiceClient<AuthenticationResponse, ApiErrorMode>.Authenticate\(string, string\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorMode>.Authenticate\(string\)](#)

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[RestServiceClient<AuthenticationResponse, ApiErrorMode>.GetDownloadFile\(string, string, params Parameter\[\]\)](#)

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[RestServiceClient<AuthenticationResponse, ApiErrorMode>.AuthenticateImplementation\(string, string\)](#)

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RestServiceClient<AuthenticationResponse, ApiErrorMode>.ProcessSignOut()

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[RestServiceClient<AuthenticationResponse, ApiErrorMode>.RestRequest<TReturnType>\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse<TReturnType>>, params Parameter\[\]\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorMode>.RestRequest\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse>, params Parameter\[\]\)](#)

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[RestServiceBasicClient<ApiErrorMode>.Get<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Post\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Post<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Put\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Put<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Patch\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Patch<TReturnType>\(string, object, params Parameter\[\]\)](#)

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[RestServiceBasicClient<ApiErrorMode>.Delete\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.Delete<TReturnType>\(string, object, params Parameter\[\]\)](#)

RestServiceBasicClient<ApiErrorMode>.CreateClient()

[RestServiceBasicClient<ApiErrorMode>.CreateRequest\(string, Method, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.RestRequest<TReturnType>\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse<TReturnType>>, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorMode>.RestRequest\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse>, params Parameter\[\]\)](#)

RestServiceBasicClient<ApiErrorMode>.ProcessResponseError<TReturnType>(IRestResponse<TReturnType>)

LoggingBase. logger

LoggingBase. logSource

[LoggingBase.LogCritical\(string, params object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogError\(string, params object\[\]\)](#)

[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogWarning\(string, params object\[\]\)](#)

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

#### Syntax

```
public class CloudConnector : RestServiceClient<AuthenticationResponse, ApiErrorModel>, IDisposable
```

## Constructors

### CloudConnector(ILogger, string, ProxyConfiguration)

Constructor.

#### Declaration

```
public CloudConnector(ILogger logger, string logSource, ProxyConfiguration proxyConfiguration = null)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	A logger for logging purposes.
<a href="#">string</a>	logSource	The logging source.

ProxyConfiguration proxyConfiguration Optional. Can be used to use proxy for communication with the rest service.

## Properties

### RefreshToken

#### Declaration

```
public string RefreshToken { get; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### AuthenticateImplementation(string)

Method to override. Do authentication with the given refreshtoken and return RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorModel>.AuthenticationResponse.

#### Declaration

```
protected override AuthenticationResponse AuthenticateImplementation(string refreshToken)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) refreshToken The refresh token (of an prior authentication) to authenticate.

#### Returns

Type	Description
AuthenticationResponse	An RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorMode>.AuthenticationResponse object containing Jwt and RefreshToken. Should return null if authentication fails.

#### Overrides

[RestServiceClient<AuthenticationResponse, ApiErrorMode>.AuthenticateImplementation\(string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>refreshToken</code> is set to null or empty string.
<a href="#">HttpRequestException</a>	Thrown if http request was not successful.
<a href="#">SecurityException</a>	Thrown if cookie for response token was not created.

#### AuthenticateImplementation(string, string)

Method to override. Do authentication with key/secret and return RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorMode>.AuthenticationResponse.

#### Declaration

```
protected override AuthenticationResponse AuthenticateImplementation(string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

#### Returns

Type	Description
AuthenticationResponse	An RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorMode>.AuthenticationResponse object containing Jwt and RefreshToken. Should return null if authentication fails.

#### Overrides

[RestServiceClient<AuthenticationResponse, ApiErrorMode>.AuthenticateImplementation\(string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cloudApiKey</code> or parameter <code>cloudApiSecret</code> is set to null or empty string.

## Type

## Condition

[HttpRequestException](#) Thrown if http request was not successful.

[SecurityException](#) Thrown if cookie for response token was not created or authentication was not successful.

## Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

### Declaration

```
public void Dispose()
```

## ProcessResponseError(string, IRestResponse)

Method to override. In this method you can react on http error messages.

### Declaration

```
protected override void ProcessResponseError(string errorMessage, IRestResponse response)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	errorMessage	The parsed error message (if applicable).
IRestResponse response		The RestSharp.IRestResponse which was not successful containing the error parameters.

### Overrides

[RestServiceBasicClient<ApiErrorModel>.ProcessResponseError\(string, IRestResponse\)](#)

### Remarks

In the normal case you should raise exception in the case of http error codes. This function is done to do the mapping.

## ProcessSignOut()

Method to override. This method is called to implement a possible sign out procedure.

### Declaration

```
protected override void ProcessSignOut()
```

### Overrides

```
RetailForce.Common.RestServiceClient<RetailForce.Common.AuthenticationResponse,  
RetailForce.Common.ApiErrorModel>.ProcessSignOut()
```

### Remarks

If you don't want to implement a possible sign out procedure, just leave the procedure blank.

## Implements

[IDisposable](#)

## Class FiscalModulCreator

This class can be used to create the fiscal module for the specific client (with all necessary sub modules loaded).

### Inheritance

[object](#)

FiscalModulCreator

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class FiscalModulCreator
```

### Constructors

**FiscalModulCreator(ConfigurationProviderBase, ILogger, CloudService)**

Constructor.

### Declaration

```
public FiscalModulCreator(ConfigurationProviderBase configProvider, ILogger logger, CloudService cloudService)
```

### Parameters

Type	Name	Description
<a href="#">ConfigurationProviderBase</a>	configProvider	The provider to load the necessary configuration.
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">CloudService</a>	cloudService	The cloud service to transfer data to the cloud. Optional if no cloud transfer is configured.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>configProvider</code> or <code>logger</code> is set to null.

### Properties

#### ObjectCache

### Declaration

```
public static Dictionary<string, object> ObjectCache { get; }
```

### Property Value

Type	Description
<a href="#">Dictionary&lt;string, object&gt;</a>	

### Methods

**CreateFiscalModuleForClient(FiscalClient, FiscalDataStorageProvider, string, string)**

Creates a fiscal module for a specific client.

### Declaration

```
public TrustedFiscalModule CreateFiscalModuleForClient(FiscalClient fiscalClient, FiscalDataStorageProvider storageProvider, string cloudApiKey = "", string cloudApiSecret = "")
```

### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	fiscalClient	A <a href="#">FiscalClient</a> representing a single fiscal client (representation of a cash register).
<a href="#">FiscalDataStorageProvider</a>	storageProvider	The storage provider to gain access to data storages local and in the cloud.
<a href="#">string</a>	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret for cloud authentication to the retailforce cloud.

### Returns

Type	Description
<a href="#">TrustedFiscalModule</a>	A <a href="#">TrustedFiscalModule</a> representing the fiscal module for this client.

### Exceptions



Type	Condition
------	-----------

[KeyNotFoundException](#) Thrown if the given client is not configured.

[ArgumentNullException](#) Throw if parameter `storageProvider` or `fiscalClient` is set to null.

### CreateFiscalModuleForClient(Guid, FiscalDataStorageProvider, string, string)

Creates a fiscal module for a specific client.

#### Declaration

```
public TrustedFiscalModule CreateFiscalModuleForClient(Guid clientId, FiscalDataStorageProvider storageProvider, string cloudApiKey = "", string cloudApiSecret = "")
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>clientId</code>	A guid representing the unique client id for this operation.
<a href="#">FiscalDataStorageProvider</a>	<code>storageProvider</code>	The storage provider to gain access to data storages local and in the cloud.
<a href="#">string</a>	<code>cloudApiKey</code>	The api key for cloud authentication to the retailforce cloud.
<a href="#">string</a>	<code>cloudApiSecret</code>	The api secret for cloud authentication to the retailforce cloud.

#### Returns

Type	Description
------	-------------

[TrustedFiscalModule](#) A [TrustedFiscalModule](#) representing the fiscal module for this client.

#### Exceptions

Type	Condition
------	-----------

[KeyNotFoundException](#) Thrown if the given client is not configured.

[ArgumentNullException](#) Throw if parameter `storageProvider` is set to null.

### CreateFiscalModuleForClient(Guid, string, string, string)

Creates a fiscal module for a specific client.

#### Declaration

```
[Obsolete("Due to cloud fiscalisation please use method with FiscalDataStorageProvider.")]  
public TrustedFiscalModule CreateFiscalModuleForClient(Guid clientId, string storageBasePath = null, string cloudApiKey = "", string cloudApiSecret = "")
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>clientId</code>	A guid representing the unique client id for this operation.
<a href="#">string</a>	<code>storageBasePath</code>	The base path for the data to store for this module (for country-specific data and client specific data). Please ensure a storage base path for each client!
<a href="#">string</a>	<code>cloudApiKey</code>	The api key for cloud authentication to the retailforce cloud.
<a href="#">string</a>	<code>cloudApiSecret</code>	The api secret for cloud authentication to the retailforce cloud.

#### Returns

Type	Description
------	-------------

[TrustedFiscalModule](#) A [TrustedFiscalModule](#) representing the fiscal module for this client.

#### Exceptions

Type	Condition
------	-----------

[KeyNotFoundException](#) Thrown if the given client is not configured.

# Class FiscalModuleManagement

Class for managing the fiscal module.

## Inheritance

[object](#)  
FiscalModuleManagement

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiscalModuleManagement
```

## Remarks

It is possible to store more than one cash register definition at the fiscal module.

## Constructors

**FiscalModuleManagement(ILogger, ConfigurationProviderBase, string, ProxyConfiguration)**

Constructor.

## Declaration

```
public FiscalModuleManagement(ILogger logger, ConfigurationProviderBase configProvider, string storageBasePath = "", ProxyConfiguration proxyConfiguration = null)
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">ConfigurationProviderBase</a>	configProvider	The configuration provider for this fiscal module.
<a href="#">string</a>	storageBasePath	The storage base path for the fiscal modules to store the data (same as at <a href="#">CreateFiscalModuleForClient(Guid, FiscalDataStorageProvider, string, string)</a> ).
<a href="#">ProxyConfiguration</a>	proxyConfiguration	Optional. Can be used to use proxy for communication with the rest service.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>configProvider</code> is set to null.

## Fields

**RESTORE\_TEMP\_DIRECTORY**

## Declaration

```
public const string RESTORE_TEMP_DIRECTORY = "RestoreClient"
```

## Field Value

## Type Description

[string](#)

## Methods

**BackupClient(Guid, string, CloudService, bool)**

Backups a client (with all data) to the given filename.

## Declaration

```
public void BackupClient(Guid clientId, string filename, CloudService cloudService, bool removeClient = false)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the backup should be done.
<a href="#">string</a>	filename	The filename where the zip backup should be done.
<a href="#">CloudService</a>	cloudService	The cloud service which processes cloud upload. Must be supplied if cloud service is in use.
<a href="#">bool</a>	removeClient	True if the client should be removed from system (config + data, data will be backup-ed); otherwise false. Optional.

## Remarks

If `cloudService` supplied cloud queue processing will be stopped and started (and cloud queue will be reinitialized).

Attention: Please consider if the client is not removed that cloud queue process will resume after backup. If any files had to be uploaded they are part of the backup too and will be possibly uploaded twice.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>filename</code> is set to null or empty string.
<a href="#">DirectoryNotFoundException</a>	Thrown if the directory where the backup should be stored is not found.
<a href="#">FileAlreadyExistsException</a>	Thrown if the given filename for the backup already exists.
<a href="#">KeyNotFoundException</a>	Thrown if the specified client does not exist in the configuration.

#### ClientExists(Guid)

Returns whether the client with the given id exists in the configuration or not.

#### Declaration

```
public bool ClientExists(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>clientId</code>	The id of the requested client.

#### Returns

Type	Description
<a href="#">bool</a>	True if the client exists; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

#### CreateClient(FiscalClient)

Creates a client at the fiscal module management.

#### Declaration

```
public void CreateClient(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	<code>client</code>	The client to create.

#### Remarks

Also for new clients the [UniqueClientId](#) property must be set.

#### Exceptions

Type	Condition
<a href="#">ValidationException</a>	Thrown if one or more <code>RetailForce.Common.Validation.ValidationError</code> occurred when validating the client object.
<a href="#">ArgumentNullException</a>	Thrown if <code>client</code> is set to null.

#### CreateClientByCloud(CompanyIdentification, string, string, string, string)

Creates a client loading the configuration data from the cloud.

#### Declaration

```
public Guid CreateClientByCloud(CompanyIdentification companyIdentification, string storeNumber, string terminalNumber, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">CompanyIdentification</a>	<code>companyIdentification</code>	The identification of the company where the client belongs.
<a href="#">string</a>	<code>storeNumber</code>	The store number of the client.
<a href="#">string</a>	<code>terminalNumber</code>	The terminal number of the client.
<a href="#">string</a>	<code>cloudApiKey</code>	The api key to access the retailforce cloud.

Type	Name	Description
<a href="#">string</a>	cloudApiSecret	The api secret to access the retailforce cloud.

#### Returns

Type	Description
<a href="#">Guid</a>	The guid of the newly created client in the configuration store.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>companyIdentification</code> is set to null or one of the parameters <code>storeNumber</code> , <code>terminalNumber</code> , <code>cloudApiKey</code> or <code>cloudApiSecret</code> is set to null or empty string.
<a href="#">KeyNotFoundException</a>	Thrown if the given entity is not found in the cloud or you are not authorized for access.
<a href="#">ValidationException</a>	Thrown if the fiscal client configuration in the cloud does not match client validation.
<a href="#">HttpRequestException</a>	Thrown if http request was not successful.
<a href="#">SecurityException</a>	Thrown if cookie for response token was not created or authentication was not successful.
<a href="#">InvalidDataException</a>	Thrown if the type property of the parameter <code>companyIdentification</code> is not a unique type.

#### CreateClientByCloud(Guid, string, string, string, string)

Creates a client loading the configuration data from the cloud.

#### Declaration

```
public Guid CreateClientByCloud(Guid licenseConsumerId, string storeNumber, string terminalNumber, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	licenseConsumerId	The organization id where the client belongs (LicenseConsumerId).
<a href="#">string</a>	storeNumber	The store number of the client.
<a href="#">string</a>	terminalNumber	The terminal number of the client.
<a href="#">string</a>	cloudApiKey	The api key to access the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret to access the retailforce cloud.

#### Returns

Type	Description
<a href="#">Guid</a>	The guid of the newly created client in the configuration store.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>licenseConsumerId</code> is set to <a href="#">Empty</a> or one of the parameters <code>storeNumber</code> , <code>terminalNumber</code> , <code>cloudApiKey</code> or <code>cloudApiSecret</code> is set to null or empty string.
<a href="#">KeyNotFoundException</a>	Thrown if the given entity is not found in the cloud or you are not authorized for access.
<a href="#">ValidationException</a>	Thrown if the fiscal client configuration in the cloud does not match client validation.
<a href="#">HttpRequestException</a>	Thrown if http request was not successful.
<a href="#">SecurityException</a>	Thrown if cookie for response token was not created or authentication was not successful.

#### CreateClientWithCloud(FiscalClient, List<string>, string, string)

Creates the client and integrates all configuration data on terminal level (also licenses are created on terminal level).

#### Declaration

```
public Guid CreateClientWithCloud(FiscalClient client, List<string> licenses, string apiKey, string apiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The client to create. Must not be null.
<a href="#">List&lt;string&gt;</a>	licenses	A list of licenselId's to create with the client.

Type	Name	Description
<a href="#">string</a>	apiKey	An apiKey for authentication as the distributor to the cloud service.
<a href="#">string</a>	apiSecret	The secret for authentication as the distributor to the cloud service.

#### Returns

#### Type Description

[Guid](#)

#### Remarks

The property [DistributorId](#) must be set to a valid distributor which is allowed to create clients.

Attention: There is always also a new organisation created.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if
<a href="#">ValidationException</a>	

#### DeleteClient(Guid)

This method deletes the client from the configuration. The data of the client will not be deleted!

#### Declaration

```
public void DeleteClient(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id of the client to delete.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

#### DownloadFiscalClientFromCloud(CloudConnector, Guid, string, string, bool, ILogger, FiscalModuleEnvironment)

Downloads fiscal client data from the cloud.

#### Declaration

```
public static FiscalClient DownloadFiscalClientFromCloud(CloudConnector cloudConnector, Guid organisationId, string storeNumber, string terminalNumber, bool restore, ILogger logger, FiscalModuleEnvironment environment)
```

#### Parameters

Type	Name	Description
<a href="#">CloudConnector</a>	cloudConnector	The cloud connector to download. Important: Must be already authenticated!
<a href="#">Guid</a>	organisationId	The organizationId (licenseConsumerId) of the client to download.
<a href="#">string</a>	storeNumber	The store number of the client to download.
<a href="#">string</a>	terminalNumber	The terminal number of the client to download.
<a href="#">bool</a>	restore	True if the client should be downloaded with restore flag; otherwise false.
<a href="#">ILogger</a>	logger	The logger for logging purposes.
<a href="#">FiscalModuleEnvironment</a>	environment	The fiscal client environment using this method.

#### Returns

Type	Description
<a href="#">FiscalClient</a>	The requested fiscal client.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cloudConnector</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>storeNumber</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>terminalNumber</code> is set to null or <a href="#">Empty</a> .
<a href="#">InvalidOperationException</a>	Thrown if cloud connector was not authenticated before this call.

### GetClient(Guid)

Returns a fiscal client from the store by given `clientId`.

#### Declaration

```
public FiscalClient GetClient(Guid clientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	<code>clientId</code>	The id of the fiscal client.
----------------------	-----------------------	------------------------------

#### Returns

Type	Description
------	-------------

<a href="#">FiscalClient</a>	Requested fiscal client.
------------------------------	--------------------------

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>clientId</code> is set to null.

<a href="#">ArgumentOutOfRangeException</a>	Thrown if requested client is not found.
---	--

### GetClientId(CompanyIdentification, string, string)

Returns the `clientId` of the requested client or null if not found in configuration.

#### Declaration

```
public Guid? GetClientId(CompanyIdentification companyIdentification, string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">CompanyIdentification</a>	<code>companyIdentification</code>	An object representing the identification for the company.
---------------------------------------	------------------------------------	--

<a href="#">string</a>	<code>storeNumber</code>	The store number of the requested client.
------------------------	--------------------------	---

<a href="#">string</a>	<code>terminalNumber</code>	The terminal number of the requested client.
------------------------	-----------------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">Guid?</a>	The <code>clientId</code> of the requested client or null if not found.
-----------------------	---

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>companyIdentification</code> is set to null or if parameter <code>storeNumber</code> or <code>terminalNumber</code> are set to null.

### GetClients()

Returns all clients stored in the configuration store.

#### Declaration

```
public List<FiscalClient> GetClients()
```

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;FiscalClient&gt;</a>	
--	--

### GetFiscalClientJsonSerializerSettings()

Returns the json serializer settings to serialize / deserialize [FiscalClient](#).

#### Declaration

```
public static JsonSerializerSettings GetFiscalClientJsonSerializerSettings()
```

#### Returns

Type	Description
------	-------------

<a href="#">JsonSerializerSettings</a>	The json serializer settings to serialize / deserialize <a href="#">FiscalClient</a> .
--	--

### RestoreClient(string, CloudService, bool)

Restores a client (with all data) from the given backup zip-file.

#### Declaration

```
public Guid RestoreClient(string filename, CloudService cloudService, bool overWrite = false)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	filename	The zip file containing the backup.

[CloudService](#) cloudService The cloud service which processes cloud upload. Must be supplied if cloud service is in use.

[bool](#) overWrite True if an existing client has to be overwritten; otherwise false.

#### Returns

Type	Description
------	-------------

[Guid](#) The [UniqueClientId](#) ([Guid](#)) representing the client id of the restored client.

#### Remarks

If `cloudService` supplied cloud queue processing will be stopped and started (and cloud queue will be reinitialized).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>filename</code> is set to null or <a href="#">Empty</a> .
<a href="#">FileNotFoundException</a>	Thrown if the given backup zip file <code>filename</code> is not found.
<a href="#">InvalidOperationException</a>	Thrown if <code>fiscalClient.config</code> is missing in zip file.
<a href="#">InvalidOperationException</a>	Thrown if <code>fiscalClient.config</code> cannot be deserialized to <a href="#">FiscalClient</a> .
<a href="#">DataException</a>	Thrown if the client already exists.

#### RestoreClientByCloud(CompanyIdentification, string, string, string, string)

Restores a client loading the configuration and archive data from the cloud.

#### Declaration

```
public Guid RestoreClientByCloud(CompanyIdentification companyIdentification, string storeNumber, string terminalNumber, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">CompanyIdentification</a>	companyIdentification	The identification of the company where the client belongs.
<a href="#">string</a>	storeNumber	The store number of the client.
<a href="#">string</a>	terminalNumber	The terminal number of the client.
<a href="#">string</a>	cloudApiKey	The api key to access the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret to access the retailforce cloud.

#### Returns

Type	Description
------	-------------

[Guid](#) The guid of the newly created client in the configuration store.

#### Remarks

Attention: Do not use this method to download configuration. This can cause a lot of side effects if not used to restore a previously crashed client. This function will fail if the client already exists in the configuration or if a data directory for the client is found.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>companyIdentification</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>storeNumber</code> is set to null or <code>string.Empty</code> .
<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>terminalNumber</code> is set to null or <code>string.Empty</code> .
<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>cloudApiKey</code> is set to null or <code>string.Empty</code> .
<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>cloudApiSecret</code> is set to null or <code>string.Empty</code> .
<a href="#">InvalidOperationException</a>	Thrown if the client already exists in configuration.
<a href="#">InvalidOperationException</a>	Thrown if restore option is set and there is already a client directory on the machine.
<a href="#">NotSupportedException</a>	Thrown if restore option is set and the country of the fiscal client does not support restore mode.

Type	Condition
------	-----------

[InvalidDataException](#) Thrown if the type property of the parameter `companyIdentification` is not a unique type.

### RestoreClientByCloud(Guid, string, string, string, string)

Restores a client loading the configuration and archive data from the cloud.

#### Declaration

```
public Guid RestoreClientByCloud(Guid licenseConsumerId, string storeNumber, string terminalNumber, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) `licenseConsumerId` The organization id where the client belongs (LicenseConsumerId).

[string](#) `storeNumber` The store number of the client.

[string](#) `terminalNumber` The terminal number of the client.

[string](#) `cloudApiKey` The api key to access the retailforce cloud.

[string](#) `cloudApiSecret` The api secret to access the retailforce cloud.

#### Returns

Type	Description
------	-------------

[Guid](#) The guid of the newly created client in the configuration store.

#### Remarks

Attention: Do not use this method to download configuration. This can cause a lot of side effects if not used to restore a previously crashed client. This function will fail if the client already exists in the configuration or if a data directory for the client is found.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `licenseConsumerId` is set to [Empty](#).

[ArgumentNullException](#) Thrown if the parameter `storeNumber` is set to null or `string.Empty`.

[ArgumentNullException](#) Thrown if the parameter `terminalNumber` is set to null or `string.Empty`.

[ArgumentNullException](#) Thrown if the parameter `cloudApiKey` is set to null or `string.Empty`.

[ArgumentNullException](#) Thrown if the parameter `cloudApiSecret` is set to null or `string.Empty`.

[InvalidOperationException](#) Thrown if the client already exists in configuration.

[InvalidOperationException](#) Thrown if restore option is set and there is already a client directory on the machine.

[NotSupportedException](#) Thrown if restore option is set and the country of the fiscal client does not support restore mode.

### UpdateClient(FiscalClient)

Updates the client in the configuration store.

#### Declaration

```
public void UpdateClient(FiscalClient client)
```

#### Parameters

Type	Name	Description
------	------	-------------

[FiscalClient](#) `client` The client to update.

#### Remarks

Please consider to use this method with care! Setting configuration values can result in misfunction of fiscal service. You have to recreate [TrustedFiscalModule](#) that new configuration values take effect.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `client` is set to null.

[KeyNotFoundException](#) Thrown if the client to update is not found.

[ValidationException](#) Thrown if the client has validation errors.



### UpdateClientByCloud(Guid, string, string)

Updates configuration from the cloud.

#### Declaration

```
public FiscalClient UpdateClientByCloud(Guid clientId, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client for which the configuration update should be applied.
<a href="#">string</a>	cloudApiKey	The api key to access the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret to access the retailforce cloud.

#### Returns

Type	Description
<a href="#">FiscalClient</a>	The new fiscal client configuration <a href="#">FiscalClient</a> .

#### Remarks

The client must exist. You have to update a possible running instance of the module (restart). Attention: This method request the configuration from cloud and GetConfiguration license is charged. Extensively called can lead to high costs.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cloudApiKey</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cloudApiSecret</code> is set to null or <a href="#">Empty</a> .
<a href="#">KeyNotFoundException</a>	Thrown if the given client is not found.

# Class FiscalResponse

The fiscal response of the fiscalisation system.

## Inheritance

[object](#)

FiscalResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[StorageName("Response")]  
public sealed class FiscalResponse
```

## Remarks

Can be

## Properties

### AdditionalFields

#### Declaration

```
[JsonIgnore]  
public ReadOnlyDictionary<string, object> AdditionalFields { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	

### CashRegisterId

Returns the cash register id.

#### Declaration

```
[JsonProperty]  
public string CashRegisterId { get; }
```

#### Property Value

#### Type Description

[string](#)

### ErrorDescription

The error description if the fiscalisation process failed. Empty if everything went well.

#### Declaration

```
[JsonProperty]
public string ErrorDescription { get; }
```

#### Property Value

#### Type Description

[string](#)

#### FiscalCountry

The fiscal country for this response.

#### Declaration

```
[JsonProperty]
public FiscalCountry FiscalCountry { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FiscalCountry</a>	
-------------------------------	--

#### FiscalDocumentNumber

The fiscalisation document number as string.

#### Declaration

```
[JsonProperty]
public string FiscalDocumentNumber { get; }
```

#### Property Value

#### Type Description

[string](#)

#### FiscalDocumentStartTime

The start time of the fiscal document (this property will be set when document is created).

#### Declaration

```
[JsonProperty]
public long FiscalDocumentStartTime { get; }
```

#### Property Value

#### Type Description

[long](#)

#### FiscalisationDocumentNumber

The fiscalisation document number.

#### Declaration

```
[JsonProperty]
[Obsolete("Will be replaced by string property FiscalDocumentNumber in further versions.")]
public int FiscalisationDocumentNumber { get; }
```

#### Property Value

#### Type Description

[int](#)

## PrintMessage

The print message to print out on the customer receipt. In several countries you have to print out this message, otherwise the implementation is not according to the law.

### Declaration

```
[JsonProperty]  
public string PrintMessage { get; }
```

### Property Value

#### Type Description

[string](#)

### Remarks

It is strongly recommended to print out this message in every country.

## ProcessStartTime

The date of the first receipt for the whole process.

### Declaration

```
[JsonProperty]  
public long ProcessStartTime { get; }
```

### Property Value

#### Type Description

[long](#)

### Remarks

This field is used for long-term orders (eg. gastronomy) for print out in germany (mandatory if long-term orders are used).

## RequestCompletionTime

Gets or sets the request completion time of the fiscal response request.

### Declaration

```
[JsonProperty]  
public DateTime RequestCompletionTime { get; set; }
```

### Property Value

#### Type Description

[DateTime](#)

## RequestTime

Gets or sets the request time of the fiscal response request.

### Declaration

```
[JsonProperty]  
public DateTime RequestTime { get; set; }
```

### Property Value

#### Type Description

[DateTime](#)

## RetailForceReceiptId

Contains the global unique receipt id (containing terminalId and document number sequence number). Can be created when creating a transaction (with create document).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string RetailForceReceiptId { get; set; }
```

### Property Value

#### Type Description

[string](#)

### Remarks

Necessary for digital receipt

### Signature

The signature of the security device (country-specific)

### Declaration

```
[JsonProperty]  
public string Signature { get; }
```

### Property Value

#### Type Description

[string](#)

## TaxPositions

Tax positions calculated by fiscal system.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<DocumentTaxPosition> TaxPositions { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentTaxPosition>](#)

## UserMessage

The message which must be shown to the user of the cash register system.

### Declaration

```
[JsonProperty]  
public string UserMessage { get; }
```

### Property Value

#### Type Description

[string](#)

## Extension Methods

[FiscalResponseAustria.QrCode\(FiscalResponse\)](#)

[FiscalResponseBulgaria.PrinterSerial\(FiscalResponse\)](#)  
[FiscalResponseCroatia.ProtectiveMark\(FiscalResponse\)](#)  
[FiscalResponseDenmark.KeyVersion\(FiscalResponse\)](#)  
[FiscalResponseDenmark.SignedData\(FiscalResponse\)](#)  
[FiscalResponseFrance.DocumentNumber\(FiscalResponse\)](#)  
[FiscalResponseFrance.FiscalMark\(FiscalResponse\)](#)  
[FiscalResponseFrance.ReprintCount\(FiscalResponse\)](#)  
[FiscalResponseFrance.SignedData\(FiscalResponse\)](#)  
[FiscalResponseFrance.Siret\(FiscalResponse\)](#)  
[FiscalResponseGermany.FiscalDocumentRevision\(FiscalResponse\)](#)  
[FiscalResponseGermany.ProcessData\(FiscalResponse\)](#)  
[FiscalResponseGermany.ProcessType\(FiscalResponse\)](#)  
[FiscalResponseGermany.QrCodeDataString\(FiscalResponse\)](#)  
[FiscalResponseGermany.TransactionEndTime\(FiscalResponse\)](#)  
[FiscalResponseGermany.TransactionStartTime\(FiscalResponse\)](#)  
[FiscalResponseGermany.TseCertificate\(FiscalResponse\)](#)  
[FiscalResponseGermany.TseHashAlgorithm\(FiscalResponse\)](#)  
[FiscalResponseGermany.TsePublicKey\(FiscalResponse\)](#)  
[FiscalResponseGermany.TseSerial\(FiscalResponse\)](#)  
[FiscalResponseGermany.TseSignatureCounter\(FiscalResponse\)](#)  
[FiscalResponseGermany.TseTimeFormat\(FiscalResponse\)](#)  
[FiscalResponseLithuania.ClosingReportNumber\(FiscalResponse\)](#)  
[FiscalResponseLithuania.QrCode\(FiscalResponse\)](#)  
[FiscalResponseLithuania.ReceiptCode\(FiscalResponse\)](#)  
[FiscalResponseLithuania.SecurityModuleNr\(FiscalResponse\)](#)  
[FiscalResponseSerbia.InvoiceCounter\(FiscalResponse\)](#)  
[FiscalResponseSerbia.InvoiceCounterExtension\(FiscalResponse\)](#)  
[FiscalResponseSerbia.InvoiceNr\(FiscalResponse\)](#)  
[FiscalResponseSerbia.QrCode\(FiscalResponse\)](#)  
[FiscalResponseSerbia.SdcDateTime\(FiscalResponse\)](#)  
[FiscalResponseSerbia.VerificationUrl\(FiscalResponse\)](#)  
[FiscalResponseSlovenia.ProtectiveMark\(FiscalResponse\)](#)  
[FiscalResponseSpain.QrCode\(FiscalResponse\)](#)  
[FiscalResponseSweden.ControlUnitSerial\(FiscalResponse\)](#)

# Class Helper

## Inheritance

[object](#)

Helper

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class Helper
```

## Methods

### DeepClone<T>(T)

#### Declaration

```
public static T DeepClone<T>(T obj)
```

#### Parameters

#### Type Name Description

T obj

#### Returns

#### Type Description

T

#### Type Parameters

#### Name Description

T

# Interface IDocumentInterface

Represents a document interface. Document interfaces can be [IFiscalModulImplementation](#) interfaces or [IStorageProvider](#) interfaces.

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IDocumentInterface
```

## Methods

### ValidateDocument(Document, bool)

Validates a document and returns (if appropriate) a list of document validation errors.

### Declaration

```
List<DocumentValidationError> ValidateDocument(Document document, bool reprintDocument = false)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.
<a href="#">bool</a>	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	The list of document validation errors.



# Interface IFiscalModulImplementation

A country specific implementation has to implement this interface.

## Inherited Members

[IDocumentInterface.ValidateDocument\(Document, bool\)](#)  
[IDisposable.Dispose\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IFiscalModulImplementation : IDocumentInterface, IDisposable
```

## Properties

### CloudArchive

True when cloud archive is activated; otherwise false.

#### Declaration

```
bool CloudArchive { get; }
```

#### Property Value

#### Type Description

[bool](#)

### CloudService

The cloud service if set (can be null).

#### Declaration

```
CloudService CloudService { get; }
```

#### Property Value

Type	Description
------	-------------

[CloudService](#)

#### Remarks

Use [CloudArchive](#) property to check if cloud archive is enabled.

### CountryProperties

Returns the country properties for this fiscal module.

#### Declaration

```
IFiscalCountryProperties CountryProperties { get; }
```

#### Property Value

Type	Description
------	-------------

[IFiscalCountryProperties](#)

### FiscalClientStatus

Returns the status of the fiscal client.

#### Declaration

```
FiscalClientStatus FiscalClientStatus { get; }
```

#### Property Value

Type	Description
------	-------------

[FiscalClientStatus](#)

### GetLastDocumentResponse

Function to fetch last document response -> this property will be set at fiscal module creation.

#### Declaration

```
Func<FiscalResponse> GetLastDocumentResponse { get; set; }
```

#### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">Func&lt;FiscalResponse&gt;</a>	

### PerformanceTraceToFile

Turns on performance trace file logging.

#### Declaration

```
bool PerformanceTraceToFile { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Remarks

If debug mode is enabled than this property always returns true. Trace file is placed in client storage directory and called "performance.trace".

### TrustedFiscalModule

Reference to the parent global trusted fiscal module.

#### Declaration

```
TrustedFiscalModule TrustedFiscalModule { get; set; }
```

#### Property Value

Type	Description
<a href="#">TrustedFiscalModule</a>	

### Methods

#### AddAuditLog(AuditLogEntry)

Method to add audit log to the country specific system.

#### Declaration

```
FiscalResponse AddAuditLog(AuditLogEntry auditLogEntry)
```

#### Parameters

Type	Name	Description
<a href="#">AuditLogEntry</a>	auditLogEntry	The audit log entry to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	FiscalResponse of the respective country or null if not necessary (depends on the country implementation).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter auditLogEntry is set to null.

#### CallBufferedCloudFunction(CloudFunctionCall)

Calls a retailforce cloud function (api.retailforce.cloud) and buffers the call until cloud is available again.

#### Declaration

```
void CallBufferedCloudFunction(CloudFunctionCall functionCall)
```

#### Parameters

Type	Name	Description
<a href="#">CloudFunctionCall</a>	functionCall	The parameters and url of the function call.

#### CancelDocument(Document)

Cancels a document on the fiscal interface.

#### Declaration

```
FiscalResponse CancelDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to cancel.
--------------------------	----------	-------------------------

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.
--------------------------------	--

#### CancelErrorDocument(Guid)

Method to cancel one error document.

#### Declaration

```
void CancelErrorDocument(Guid documentGuid)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	documentGuid	The guid of the document to cancel.
----------------------	--------------	-------------------------------------

#### Exceptions

Type	Condition
------	-----------

<a href="#">NotImplementedException</a>	Thrown if the method is not implemented in the current country implementation.
---	--

#### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

#### Declaration

```
FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.
------------------------------	--------------	--

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.
--------------------------------	--

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.
--------------------------	-------------	--

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.
--------------------------------	--

#### DisplayText(string, string)

Displays a text on a customer display (only if attached and fiscal customer display)

#### Declaration

```
void DisplayText(string line1, string line2)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	line1	The first line to display.
------------------------	-------	----------------------------

<a href="#">string</a>	line2	The second line to display.
------------------------	-------	-----------------------------

#### DownloadExternalCertificate(string, bool, string)

Downloads the external certificate stored in the cloud with given certificate name.

#### Declaration

```
void DownloadExternalCertificate(string certificateName = null, bool overWrite = false, string certificateUrl = "")
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	certificateName	The id of the certificate to download; if null the default certificate is downloaded.
------------------------	-----------------	---

<a href="#">bool</a>	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.
----------------------	-----------	---

<a href="#">string</a>	certificateUrl	The url of the certificate download endpoint. Default:
------------------------	----------------	--

#### Exceptions

Type	Condition
<a href="#">FileAlreadyExistsException</a>	Thrown if the certificate already exists and <code>overWrite</code> is set to false.
<a href="#">CertificateException</a>	Thrown if the certificate could not be downloaded or the downloaded certificate is not valid any more.

#### DownloadSignatureCertificate(bool)

Downloads the terminal certificate from retailforce cloud.

#### Declaration

```
void DownloadSignatureCertificate(bool overWrite = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">bool</a>	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.
----------------------	-----------	---

#### Exceptions

Type	Condition
<a href="#">FileAlreadyExistsException</a>	Thrown if the certificate already exists and <code>overWrite</code> is set to false.
<a href="#">CertificateException</a>	Thrown if the certificate could not be downloaded or the downloaded certificate is not valid any more.
<a href="#">InvalidOperationException</a>	Thrown if cloud credentials are not set for authentication to cloud.

#### GetClosingNecessary(out DateTimeOffset?, DateTimeOffset?)

Returns null if not implemented; if implemented it returns if closing is necessary (true); otherwise false.

#### Declaration

```
bool? GetClosingNecessary(out DateTimeOffset? lastClosingDateInterval, DateTimeOffset? checkTime = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">DateTimeOffset?</a>	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.
---------------------------------	-------------------------	---

Type	Name	Description
<a href="#">DateTimeOffset?</a>	checkTime	The time when the check should be performed.

#### Returns

Type	Description
<a href="#">bool?</a>	Null if not implemented; if implemented it returns if closing is necessary (true); otherwise false.

#### GetDocumentMandatoryFields(Type)

Returns the mandatory fields for this type for the given country implementation.

#### Declaration

```
ReadOnlyList<string> GetDocumentMandatoryFields(Type t)
```

#### Parameters

Type	Name	Description
<a href="#">Type</a>	t	The type to get the mandatory fields.

#### Returns

Type	Description
<a href="#">ReadOnlyList&lt;string&gt;</a>	A list of property names representing the mandatory fields for this country implementation.

#### GetErrorDocuments(bool)

Returns all error documents from the system which have errors sending to authorities.

#### Declaration

```
List<Guid> GetErrorDocuments(bool onlyAsync)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	onlyAsync	True if only error documents should be returned which were generated in asynchronous operation.

#### Returns

Type	Description
<a href="#">List&lt;Guid&gt;</a>	A list of document guid representing all error documents from the system which have errors sending to authorities.

#### Remarks

This method is only implemented in countries sending data asynchronous to tax authorities (like spain, lithuania).

#### Exceptions

Type	Condition
<a href="#">NotSupportedException</a>	Thrown if the method is not implemented in the current country implementation.

#### GetTaxFreeVat()

Returns the vat object for country specific zero tax based transactions.

#### Declaration

```
[Obsolete("Use CountryProperties.TaxFree vat instead.")]
Vat GetTaxFreeVat()
```

#### Returns

Type	Description
<a href="#">Vat</a>	A vat object representing the zero tax based vat object.

#### Remarks

Can be used for payin/payout, cash difference.

### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).
------------------------	---

### GetVatIdentification(decimal, DateTime)

Returns the appropriate vat identification for the requested percentage and date/time.

#### Declaration

```
int? GetVatIdentification(decimal vatPercent, DateTime requestDate)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">decimal</a>	vatPercent	The vat percentage for the requested vat identification.
-------------------------	------------	--

<a href="#">DateTime</a>	requestDate	The date/time for the requested vat identification.
--------------------------	-------------	---

#### Returns

Type	Description
------	-------------

<a href="#">int?</a>	
----------------------	--

### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.
--------------------------	---------------	---

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.
--------------------------------	--

### MapDocumentToCloudReceiptMetaData(Document, Guid)

Map a [Document](#) to an cloud ReceiptMetaData RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData

#### Declaration

```
ReceiptMetaData MapDocumentToCloudReceiptMetaData(Document document, Guid documentGuid)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The <a href="#">Document</a> which have to be mapped
--------------------------	----------	--

<a href="#">Guid</a>	documentGuid	The document guid of the document to get the receipt meta data.
----------------------	--------------	---

#### Returns

Type	Description
------	-------------

<a href="#">ReceiptMetaData</a>	The mapped RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData object
---------------------------------	---

### MapDocumentToReceiptMetaData(Document, Guid)

Map a [Document](#) to an [ReceiptMetaData](#)

#### Declaration

```
ReceiptMetaData MapDocumentToReceiptMetaData(Document document, Guid documentGuid)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The <a href="#">Document</a> which have to be mapped
<a href="#">Guid</a>	documentGuid	The document guid of the document to get the receipt meta data.

#### Returns

Type	Description
<a href="#">ReceiptMetaData</a>	The mapped <a href="#">ReceiptMetaData</a> object

#### MapReceiptMetaDataToCloudReceiptMetaData(ReceiptMetaData)

Map a [ReceiptMetaData](#) to an cloud RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData

#### Declaration

```
ReceiptMetaData MapReceiptMetaDataToCloudReceiptMetaData(ReceiptMetaData receiptMetaData)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptMetaData</a>	receiptMetaData	The <a href="#">ReceiptMetaData</a> which have to be mapped

#### Returns

Type	Description
<a href="#">ReceiptMetaData</a>	The mapped RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData object.

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system

#### Declaration

```
void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

### OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
void OpenDrawer(User user)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).

### ReprintDocument(Document, string)

Stores a document reprint to the fiscal interface.

#### Declaration

```
FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.
<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Remarks



Not necessary in all countries. See [MustRecordDocumentReprint](#) if it must be sent. If not necessary or if fiscal system is not responding with [FiscalResponse](#) null is returned.

### RestoreByCloudInitializeClient()

This method is called after restore by cloud to do several initialization steps (if necessary).

#### Declaration

```
void RestoreByCloudInitializeClient()
```

### SetCloudCredentials(string, string)

Connect or reconnects the client to the cloud (if connection was not be done before).

#### Declaration

```
void SetCloudCredentials(string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret for cloud authentication to the retailforce cloud.

#### Remarks

ATTENTION: Only call this method if cloud credentials are right; otherwise you'll disable cloud communication until you correct the credentials again.

### SignData(byte[])

Signs data using the internal [ISignatureInterface](#).

#### Declaration

```
string SignData(byte[] data)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	data	The data to sign.
------------------------	------	-------------------

#### Returns

Type	Description
<a href="#">string</a>	The signature as base64-url-encoded value.

### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### StoreExternalCertificate(Stream, string, bool, string)

Stores an external certificate to the fiscal module certificate store.

#### Declaration

```
void StoreExternalCertificate(Stream pfxStream, string pfxPassword, bool overwrite = false, string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	pfxStream	The stream containing the certificate in PKSC12 format. Stream must be at the beginning (Seek.Beginning).
<a href="#">string</a>	pfxPassword	The password to access the private key of the certificate.
<a href="#">bool</a>	overwrite	True if a certificate which is already stored should be overwritten; otherwise false. Default is false.
<a href="#">string</a>	certificateName	The id of the certificate to store; if null the certificate is stored as default certificate.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfxStream</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfxPassword</code> is set to null or <a href="#">Empty</a> .
<a href="#">FileAlreadyExistsException</a>	Thrown if the given certificate already exists and parameter <code>overwrite</code> is set to false.

#### UploadDigitalReceipt(ReceiptMetaData, Stream)

Uploads a digital receipt to the cloud (sends it to the cloud service for buffered uploading).

#### Declaration

```
void UploadDigitalReceipt(ReceiptMetaData document, Stream file)
```

#### Parameters

Type	Name	Description
	ReceiptMetaData document	The receipt data (meta data) for upload.
<a href="#">Stream</a>	file	The file as stream (pdf).

#### ValidateFiscalClient(Document)

Validates the fiscal client for the given document.

#### Declaration

```
List<DocumentValidationError> ValidateFiscalClient(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document containing the fiscal client.

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of document validation errors.

#### VerifySignature(byte[], string)

Verifies the signature and the data.

#### Declaration

```
bool VerifySignature(byte[] data, string signature)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	data	The data which was signed before.
<a href="#">string</a>	signature	The base64-url-encoded signature to verify.

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the signature is correct; otherwise false.
----------------------	--

#### **WritePerformanceTrace(string)**

Write performance trace log and if enabled also performance trace file.

#### **Declaration**

```
void WritePerformanceTrace(string performanceCounterId)
```

#### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	performanceCounterId	The id of the performance counter to trace. If null, empty or wrong id no trace is done.
------------------------	----------------------	--

#### **Remarks**

To enable performance trace file set [PerformanceTraceToFile](#) property to true. If debug mode is enabled than this property always returns true. Trace file is placed in client storage directory and called "performance.trace".

# Class QrCode

Helper class for generating qr codes.

## Inheritance

[object](#)

QrCode

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class QrCode
```

## Methods

### GenerateQrCode(string, int)

Generates the given string into a [Bitmap](#) showing a qrCode.

#### Declaration

```
public static Bitmap GenerateQrCode(string qrCode, int size = 3)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	qrCode	The string to convert to a qr code bitmap.

<a href="#">int</a>	size	The size of the qr code.
---------------------	------	--------------------------

#### Returns

Type	Description
<a href="#">Bitmap</a>	A bitmap containing the created qr code.

### GenerateQrCodeBase64(string, int, ImageFormat)

Generates the given string into a base64 encoded image string containing a qr code.

#### Declaration

```
public static string GenerateQrCodeBase64(string qrCode, int size = 3, ImageFormat imageFormat = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	qrCode	The string to convert to a qr code.

Type	Name	Description
<a href="#">int</a>	size	The size of the qr code.
<a href="#">ImageFormat</a>	imageFormat	The format of the image, default: png.

#### Returns

Type	Description
<a href="#">string</a>	A base64 encoded string containing the qr code of the given string.

#### GenerateQrCodeFile(string, string, int, ImageFormat)

Generates the given string into the given file and format showing a qr code.

#### Declaration

```
public static void GenerateQrCodeFile(string qrCode, string filename, int size = 3, ImageFormat imageFormat = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	qrCode	The string to convert to a qr code image file.
<a href="#">string</a>	filename	The filename of the destination file.
<a href="#">int</a>	size	The size of the qr code.
<a href="#">ImageFormat</a>	imageFormat	The format of the image, default: png.

# Class ServiceConfigurationBase

Base class for service configuration.

## Inheritance

[object](#)

ServiceConfigurationBase

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ServiceConfigurationBase
```

## Constructors

### ServiceConfigurationBase()

Constructor.

### Declaration

```
public ServiceConfigurationBase()
```

## Properties

### HttpsCertificateFilename

Path to the https certificate file (\*.pfx). Can be relativ (wwwroot) or absolute.

### Declaration

```
public string HttpsCertificateFilename { get; set; }
```

### Property Value

### Type Description

[string](#)

### HttpsCertificatePassword

Password for certificate file.

### Declaration

```
public string HttpsCertificatePassword { get; set; }
```

### Property Value

### Type Description

[string](#)

## LogEventLog

True if logging should also log to the event log.

### Declaration

```
public bool LogEventLog { get; set; }
```

### Property Value

#### Type Description

[bool](#)

### Remarks

Default: false.

## LogLevelFilter

Filter for logging.

### Declaration

```
public LogLevel LogLevelFilter { get; set; }
```

### Property Value

#### Type Description

[LogLevel](#)

### Remarks

Default: [Debug](#)

## LogName

Name of the logging source in event log.

### Declaration

```
public string LogName { get; set; }
```

### Property Value

#### Type Description

[string](#)

### Remarks

Default: 'not specified.'

## Portnumber

Port number for http port.

### Declaration

```
public int Portnumber { get; set; }
```

### Property Value

#### Type Description

[int](#)

**Remarks**

Default: 5000

**PortnumberHttps**

Port number for https port.

**Declaration**

```
public int PortnumberHttps { get; set; }
```

**Property Value****Type Description**

[int](#)

**Remarks**

Default: 5001

**UseHttps**

True if the service should also serve https. Otherwise false.

**Declaration**

```
public bool UseHttps { get; set; }
```

**Property Value****Type Description**

[bool](#)

**Remarks**

Default: false

[HttpsCertificateFilename](#), [PortnumberHttps](#) and [HttpsCertificatePassword](#) must be set.

**UseHttpsRedirection**

True if the service should automatically route all incoming requests to https port.

**Declaration**

```
public bool UseHttpsRedirection { get; set; }
```

**Property Value****Type Description**

[bool](#)



## Class TrustedFiscalModule

Part for audit log methods.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
TrustedFiscalModule

### Implements

[IDisposable](#)

### Inherited Members

[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public sealed class TrustedFiscalModule : TrustedFiscalModuleBase, IDisposable
```

### Fields

#### MasterCertificateAlias

Certificate alias for master certificate (retailforce master signature certificate)

#### Declaration

```
public const string MasterCertificateAlias = "MasterCert"
```

#### Field Value

#### Type Description

[string](#)

#### OrganizationCertificateAlias

Certificate alias for organization certificate.

#### Declaration

```
public const string OrganizationCertificateAlias = "OrganizationCert"
```

#### Field Value

#### Type Description

[string](#)

#### RetailForceReceiptIdFilename

Constant value for retailforce receipt id value.

#### Declaration

```
public const string RetailForceReceiptIdFilename = "Receipt.id"
```

#### Field Value

#### Type Description

[string](#)

#### TerminalCertificateAlias

Certificate alias for terminal certificate.

#### Declaration

```
public const string TerminalCertificateAlias = "TerminalCert"
```

#### Field Value

#### Type Description

[string](#)

### Properties

#### FiscalClientStatus

Returns the fiscal client status for the fiscal module.

#### Declaration

```
public FiscalClientStatus FiscalClientStatus { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

#### LicenseConsumerId

Returns the license consumer id of the fiscal client.

##### Declaration

```
public Guid LicenseConsumerId { get; }
```

##### Property Value

#### Type Description

[Guid](#)

#### LicenseKey

Returns the license key for the fiscal client.

##### Declaration

```
public string LicenseKey { get; }
```

##### Property Value

#### Type Description

[string](#)

#### ModulImplementation

Returns the fiscal module implementation for this trusted fiscal module.

##### Declaration

```
public IFiscalModulImplementation ModulImplementation { get; }
```

##### Property Value

Type	Description
<a href="#">IFiscalModulImplementation</a>	

#### StoreErrorDocumentsToDisk

If set to true document validation or any other error causing document will be stored in the fiscal client directory.

##### Declaration

```
public bool StoreErrorDocumentsToDisk { get; set; }
```

##### Property Value

#### Type Description

[bool](#)

##### Remarks

If fiscal client is used in cloud environment feature is disabled

#### UniqueClientId

Returns the fiscal client unique id.

##### Declaration

```
public Guid UniqueClientId { get; }
```

##### Property Value

#### Type Description

[Guid](#)

#### Methods

##### ActivateGlobalShortId()

Generates a new or returns the already existing global short id for the client.

##### Declaration

```
public string ActivateGlobalShortId()
```

##### Returns

Type	Description
<a href="#">string</a>	A 4 digit base62 alphanumeric global unique id for the client.

##### Remarks

Cloud connection must be enabled. Activating the global short id for the client also activates returning unique receipt id ([RetailForceReceiptId](#)).

##### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if cloud does not return global terminal short id.

**AddAuditLog(AuditLogEntry, out bool)**

Adds an audit log to the fiscal client.

#### Declaration

```
public FiscalResponse AddAuditLog(AuditLogEntry auditLogEntry, out bool duplicate)
```

#### Parameters

Type	Name	Description
<a href="#">AuditLogEntry</a>	auditLogEntry	The audit log entry to add.
<a href="#">bool</a>	duplicate	Out parameter; True if the current audit log was sent before; otherwise false.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A possible <a href="#">FiscalResponse</a> if this audit log is signed in the country.

#### Remarks

If [RecordDateTime](#) is set to [MinValue](#) it will be automatically set to [Now](#).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <a href="#">auditLogEntry</a> is set to null.
<a href="#">ArgumentException</a>	Thrown if audit log entry is sent with <a href="#">Signature</a> property set.

#### AddAuditLog(LogEntryType, DateTime, out bool, string, Guid?, User, decimal?, string)

Adds an audit log to the fiscal client.

#### Declaration

```
public FiscalResponse AddAuditLog(LogEntryType logEntryType, DateTime auditlogDateTime, out bool duplicate, string message = "", Guid? documentGuid = null, User user = null, deci
```

#### Parameters

Type	Name	Description
<a href="#">LogEntryType</a>	logEntryType	The type of the audit log entry.
<a href="#">DateTime</a>	auditlogDateTime	The date time of the audit log.
<a href="#">bool</a>	duplicate	Out parameter; True if the current audit log was sent before; otherwise false.
<a href="#">string</a>	message	The message of the audit log.
<a href="#">Guid?</a>	documentGuid	A possible connection to a document of the audit log entry.
<a href="#">User</a>	user	The user (if applicable) of the audit log entry.
<a href="#">decimal?</a>	amount	A possible amount for the audit log entry.
<a href="#">string</a>	identifier	A possible identifier for the audit log entry.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A possible <a href="#">FiscalResponse</a> if this audit log is signed in the country.

#### CancelDocument(Document)

Cancel the given document.

#### Declaration

```
public FiscalResponse CancelDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The <a href="#">FiscalResponse</a> object containing the fiscal response.

#### Exceptions

Type	Condition
------	-----------

**Type** **Condition**

[ArgumentNullException](#) Thrown if `document` parameter is set to null.

[NotSupportedException](#) Thrown if document type [MiscellaneousNonFiscal](#) is sent.

### CancelErrorDocument(Guid)

Method to cancel one error document.

#### Declaration

```
public void CancelErrorDocument(Guid documentGuid)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	<code>documentGuid</code>	The guid of the document to cancel.
----------------------	---------------------------	-------------------------------------

#### Remarks

If document was already stored to document store it is reverted and stored back to the store for data integrity.

#### Exceptions

Type	Condition
------	-----------

<a href="#">NotImplementedException</a>	Thrown if the method is not implemented in the current country implementation.
---	--

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .
---------------------------------------	---

### ClosingBookCashDifference(User, List<Payment>, string, string, Guid?, string)

Books a cash difference to the fiscalisation system.

#### Declaration

```
public FiscalResponse ClosingBookCashDifference(User user, List<Payment> paymentToBook, string reason = "", string documentNumber = null, Guid? documentGuid = null, string documentId = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">User</a>	<code>user</code>	The user who's operating this function.
----------------------	-------------------	---

<a href="#">List&lt;Payment&gt;</a>	<code>paymentToBook</code>	The difference for the different payment types.
-------------------------------------	----------------------------	---

<a href="#">string</a>	<code>reason</code>	Optional. The reason for the cash difference (see documentation for countries where this field is mandatory).
------------------------	---------------------	---

<a href="#">string</a>	<code>documentNumber</code>	A document number for adding to the generated document. Default is null.
------------------------	-----------------------------	--

<a href="#">Guid?</a>	<code>documentGuid</code>	A document guid for adding to the generated document. Default is <a href="#">NewGuid()</a> .
-----------------------	---------------------------	--

<a href="#">string</a>	<code>documentId</code>	A document id for adding to the generated document. Default is string representation of <a href="#">NewGuid()</a> .
------------------------	-------------------------	---

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	The fiscal response for the signed document.
--------------------------------	--

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameters <code>user</code> or <code>paymentToBook</code> are set to null.
---------------------------------------	---

<a href="#">InvalidDataException</a>	Thrown if <a href="#">UniqueReadablePaymentIdentifier</a> is not set at every payment of the list.
--------------------------------------	--

### ClosingBookCashLift(User, List<Payment>, bool, string, Guid?, string)

Books a money transfer from cash register system to bank (or any other destination).

#### Declaration

```
public FiscalResponse ClosingBookCashLift(User user, List<Payment> payments, bool isStockAmount, string documentNumber = null, Guid? documentGuid = null, string documentId = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">User</a>	<code>user</code>	The user who's operating this function.
----------------------	-------------------	---

<a href="#">List&lt;Payment&gt;</a>	<code>payments</code>	The payments according to parameter <code>isStockAmount</code> .
-------------------------------------	-----------------------	--

<a href="#">bool</a>	<code>isStockAmount</code>	True if the given payments are the stock which should result after this booking; False if the given payments should be booked by their value.
----------------------	----------------------------	---

Type	Name	Description
<a href="#">string</a>	documentNumber	A document number for adding to the generated document. Default is null.
<a href="#">Guid?</a>	documentGuid	A document <a href="#">guid</a> for adding to the generated document. Default is <a href="#">NewGuid()</a> .
<a href="#">string</a>	documentId	A document id for adding to the generated document. Default is string representation of <a href="#">NewGuid()</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The fiscal response for the signed document.

#### Remarks

If you want to use vouchers (single/multipurpose) you have to send each individual voucher in `payments` with voucher id. If only the amount is sent this will fail in an exception.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameters <code>user</code> or <code>payments</code> are set to null.
<a href="#">InvalidDataException</a>	Thrown if <a href="#">UniqueReadablePaymentIdentifier</a> is not set at every payment of the list.

#### ClosingBookOpeningBalance(User, List<Payment>, string, Guid?, string)

Book the opening stock for a cash register closing statement. Books just a pay-in (BusinessTransactionType moneyTransfer), does not resettle the cash stock.

#### Declaration

```
public FiscalResponse ClosingBookOpeningBalance(User user, List<Payment> openingStockPayment, string documentNumber = null, Guid? documentGuid = null, string documentId = null)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user who's operating this function.
<a href="#">List&lt;Payment&gt;</a>	openingStockPayment	The opening stock for the individual payment types.
<a href="#">string</a>	documentNumber	A document number for adding to the generated document. Default is null.
<a href="#">Guid?</a>	documentGuid	A document <a href="#">guid</a> for adding to the generated document. Default is <a href="#">NewGuid()</a> .
<a href="#">string</a>	documentId	A document id for adding to the generated document. Default is string representation of <a href="#">NewGuid()</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The fiscal response for the signed document.

#### Remarks

Attention: Using this function with value 0 does not resettle the stock to 0, just books 0 value.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>openingStockPayment</code> or parameter <code>user</code> is set to null.
<a href="#">InvalidDataException</a>	Thrown if <a href="#">UniqueReadablePaymentIdentifier</a> is not set at every payment of the list.

#### ClosingCashPointCheck(List<Payment>)

Checks the actual stock of the payments for this cash register and returns a list of payments with difference (or an empty list if there's no difference).

#### Declaration

```
public List<Payment> ClosingCashPointCheck(List<Payment> paymentsToCheck)
```

#### Parameters

Type	Name	Description
<a href="#">List&lt;Payment&gt;</a>	paymentsToCheck	A list of payments and their respective amounts to check. Attention:

#### Returns

Type	Description
<a href="#">List&lt;Payment&gt;</a>	A list of payments with difference (or an empty list if there's no difference).

#### Exceptions

**Type** **Condition**

[InvalidDataException](#) Thrown if [UniqueReadablePaymentIdentifier](#) is not set at every payment of the list.

[ArgumentNullException](#) Thrown if parameter `paymentsToCheck` is set to null.

### ClosingCashPointClose(User, List<Payment>, bool, bool)

Closes the actual day with a closing statement.

#### Declaration

```
public FiscalResponse ClosingCashPointClose(User user, List<Payment> paymentsToCheck = null, bool raiseCashDifferenceException = false, bool closeMonth = false)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user who's operating this function.
<a href="#">List&lt;Payment&gt;</a>	paymentsToCheck	A list of payment values to check for cash difference if parameter <code>raiseCashDifferenceException</code> is set. Please refer to <a href="#">ClosingCashPointCheck(List&lt;Payment&gt;)</a> for more information for this parameter.
<a href="#">bool</a>	raiseCashDifferenceException	True if a cashpoint check has to be evaluated in front and an exception will raised if there is a cash difference; otherwise false. Setting this parameter to true the parameter <code>paymentsToCheck</code> must not be null.
<a href="#">bool</a>	closeMonth	True if the parameter <code>CLOSING_CLOSEMONTH</code> should be set. Otherwise false.

#### Returns

**Type** **Description**

[FiscalResponse](#) A [FiscalResponse](#) object for the booked cashpoint closing (end of day).

#### Exceptions

**Type** **Condition**

[ArgumentNullException](#) Thrown if parameter `paymentsToCheck` is set to null and parameter `raiseCashDifferenceException` is set to true or if parameter `user` is set to null.

[InvalidDataException](#) Thrown if [UniqueReadablePaymentIdentifier](#) is not set at every payment of the list.

[DataException](#) Thrown if a cash difference occurs and parameter `raiseCashDifferenceException` is set to true.

### ClosingGetActualStock()

Returns the actual stock of payments of the actual client.

#### Declaration

```
public List<Payment> ClosingGetActualStock()
```

#### Returns

**Type** **Description**

[List<Payment>](#) A list of payment values representing the actual payment stock.

#### Remarks

This methods returns the stock of the payments. For vouchers (single/multipurpose) the amount of all vouchers is returned (no detail).

### CloudBackup(string)

Backup the given folders to the cloud.

#### Declaration

```
public void CloudBackup(string backupFile)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	backupFile	A list of folders to backup.

#### Exceptions

**Type** **Condition**

[CloudNotConnectedException](#) Thrown if cloud service is not available.

[ArgumentNullException](#) Thrown if parameter `backupFile` is set to null or [Empty](#).

[FileNotFoundException](#) Thrown if file in parameter `backupFile` is not found.

[LicenseException](#) Thrown if no license is found.

Type	Condition
<a href="#">LicenseException</a>	Thrown if no backup license is found.
<a href="#">EntityTooLargeException</a>	Thrown if backup file is to large (max 1GB).

### CloudBackupDelete(DateTime?)

Deletes a cloud backup from storage and/or from upload queue.

#### Declaration

```
public void CloudBackupDelete(DateTime? backupDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime?</a>	backupDate	The date of the backup to delete. If null today is used.

#### Exceptions

Type	Condition
<a href="#">CloudNotConnectedException</a>	Thrown if the cloud service is not available in the fiscal module (call cloudConnect).
<a href="#">TimeoutException</a>	Thrown if waiting to stop queue processing exceeds 2 min.
<a href="#">LicenseException</a>	Thrown if no license is found.
<a href="#">LicenseException</a>	Thrown if no backup license is found.

### CloudConnect(string, string, Action<CloudConnector>)

Connect or reconnects the client to the cloud (if connection was not be done before).

#### Declaration

```
public bool CloudConnect(string cloudApiKey, string cloudApiSecret, Action<CloudConnector> callMethod = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret for cloud authentication to the retailforce cloud.
<a href="#">Action&lt;CloudConnector&gt;</a>	callMethod	Method which can be called when authentication was successful.

#### Returns

#### Type Description

[bool](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cloudApiKey</code> or parameter <code>cloudApiSecret</code> is set to null or empty string.
<a href="#">SecurityException</a>	Thrown if given credentials are wrong.

### CloudRestore(DateTime?)

Returns the download url for restoring cloud backing.

#### Declaration

```
public string CloudRestore(DateTime? backupDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime?</a>	backupDate	The date of the backup to restore, if null the last backup is returned.

#### Returns

#### Type Description

[string](#) The download url for restoring cloud backing.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if no license is found.

Type	Condition
<a href="#">LicenseException</a>	Thrown if no backup license is found.

[CloudNotConnectedException](#) Thrown if cloud service is not available.

### CloudRestore(string, DateTime?)

Restores a previously backed up zip file to destination folder.

#### Declaration

```
public void CloudRestore(string destinationPath, DateTime? backupDate)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	destinationPath	The path to store the restore backup.

[DateTime?](#) backupDate The date of the backup to restore, if null the last backup is returned.

#### Remarks

destinationPath is local path of the service. If called through web service do not mix up with the local path of the service client.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter destinationPath is set to null or <a href="#">Empty</a> .
<a href="#">DirectoryNotFoundException</a>	Thrown if parameter destinationPath path is not found.
<a href="#">LicenseException</a>	Thrown if no license is found.
<a href="#">LicenseException</a>	Thrown if no backup license is found.
<a href="#">CloudNotConnectedException</a>	Thrown if cloud service is not available.

### CreateDocument(DocumentType)

Creates a document in the fiscal environment.

#### Declaration

```
public FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The <a href="#">FiscalResponse</a> object containing the fiscal response.

#### Remarks

ATTENTION: It is important to create the document at the beginning of a transaction (e.g. when the first item is added). You won't be legally secure in german environment if you're not creating the document at the beginning of the sales transaction.

#### Exceptions

Type	Condition
<a href="#">NotSupportedException</a>	Thrown if document type <a href="#">MiscellaneousNonFiscal</a> is sent.

### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.



## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>endDocument</code> is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if clientid of document does not match clientid of fiscal module or if documenttype is not set to <a href="#">NullReceipt</a> .
<a href="#">ValidationException</a>	Thrown if one or more document validation errors where raised. You can use <a href="#">ValidateDocument(Document, bool, bool)</a> to test if your document has validation errors.

## DisplayText(string, string)

Displays a text on a customer display (only if attached and fiscal customer display)

### Declaration

```
public void DisplayText(string line1, string line2)
```

### Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a> line1	The first line to display.
------------------------------	----------------------------

<a href="#">string</a> line2	The second line to display.
------------------------------	-----------------------------

## Dispose()

Provides a mechanism for releasing unmanaged resources.

### Declaration

```
public void Dispose()
```

## GetAuditLog(DateTime?, DateTime?)

Returns all audit records queried by fromDate/tillDate.

### Declaration

```
public List<AuditLogEntry> GetAuditLog(DateTime? fromDate, DateTime? tillDate)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">DateTime?</a> fromDate	Optional. If not set 1st january of current year is used.
------------------------------------	---

<a href="#">DateTime?</a> tillDate	Optional. If not set 31st december of current year is used.
------------------------------------	---

### Returns

Type	Description
------	-------------

<a href="#">List&lt;AuditLogEntry&gt;</a>	All audit records queried by fromDate/tillDate.
---	---

## GetCertificateSecHelper(Guid)

The security for retail force certificates.

### Declaration

```
public static string GetCertificateSecHelper(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	
----------------------	----------------	--

### Returns

**Type Description**

[string](#)

## GetClosingNecessary(out DateTimeOffset?, DateTimeOffset?)

Returns whether closing is necessary to do or not. (Depending on [MaximumHourIntervalForClosing](#).)

### Declaration

```
public bool GetClosingNecessary(out DateTimeOffset? lastClosingDateInterval, DateTimeOffset? checkTime = null)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">DateTimeOffset?</a> lastClosingDateInterval	Out parameter. Returns the next necessary closing time.
---	---

<a href="#">DateTimeOffset?</a> checkTime	The time to check if closing is necessary. Default is <a href="#">Now</a> .
---	---

### Returns

Type	Description
------	-------------

**Type**                      **Description**

[bool](#) True if closing is requested; otherwise false.

#### GetCountryClientConfigurationType(FiscalCountry)

Returns the type of the country specific configuration class.

##### Declaration

```
public static Type GetCountryClientConfigurationType(FiscalCountry fiscalCountry)
```

##### Parameters

**Type**                      **Name**                      **Description**

[FiscalCountry](#) fiscalCountry The fiscal country where type is requested.

##### Returns

**Type**                      **Description**

[Type](#) The type of the country specific configuration class.

#### GetDocumentMandatoryFields(string)

Returns the mandatory fields for type given by typeName for the given country implementation.

##### Declaration

```
public IReadOnlyList<string> GetDocumentMandatoryFields(string typeName)
```

##### Parameters

**Type**   **Name**                      **Description**

[string](#) typeName The name of the requested type. Must be in namespace [RetailForce.Fiscalisation.Model.Document](#).

##### Returns

**Type**                      **Description**

[IReadOnlyList<string>](#) A list of property names representing the mandatory fields for this country implementation.

##### Remarks

You can query at the moment for the following entities (parameter typeName):

- Document
- DocumentPositionItem
- DocumentPositionBooking
- DocumentPositionText
- DocumentPayment
- DocumentReference
- DocumentPositionReference
- Discount

##### Exceptions

**Type**                      **Condition**

[NotImplementedException](#) Thrown if the given type name is not implemented.

#### GetDocumentMandatoryFields(Type)

Returns the mandatory fields for this type for the given country implementation.

##### Declaration

```
public IReadOnlyList<string> GetDocumentMandatoryFields(Type t)
```

##### Parameters

**Type**   **Name**                      **Description**

[Type](#) t                      The type to get the mandatory fields.

##### Returns

**Type**                      **Description**

[IReadOnlyList<string>](#) A list of property names representing the mandatory fields for this country implementation.

#### GetErrorDocuments(bool)

Returns all error documents from the system which have errors sending to authorities.

##### Declaration

```
public List<Guid> GetErrorDocuments(bool onlyAsync)
```

##### Parameters

**Type**   **Name**                      **Description**

Type	Name	Description
<a href="#">bool</a>	onlyAsync	True if only error documents should be returned which where generated in asynchronous operation.

#### Returns

Type	Description
<a href="#">List&lt;Guid&gt;</a>	A list of document guid representing all error documents from the system which have errors sending to authorities.

#### Remarks

This method is only implemented in countries sending data asynchronous to tax authorities (like spain, lithuania).

#### Exceptions

Type	Condition
<a href="#">NotImplementedException</a>	Thrown if the method is not implemented in the current country implementation.

#### GetExternalCertificateKeySecHelper(Guid)

The encryption password for external certificate passwords.

#### Declaration

```
public static string GetExternalCertificateKeySecHelper(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

#### Returns

##### Type Description

[string](#)

#### GetFiscalCountryProperties()

Returns the fiscal country properties for the fiscal modul implementation.

#### Declaration

```
public IFiscalCountryProperties GetFiscalCountryProperties()
```

#### Returns

Type	Description
<a href="#">IFiscalCountryProperties</a>	The fiscal country properties for the fiscal modul implementation.

#### GetFiscalCountryProperties(FiscalCountry)

Returns the fiscal country properties object for the requested country.

#### Declaration

```
public static IFiscalCountryProperties GetFiscalCountryProperties(FiscalCountry fiscalCountry)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalCountry</a>	fiscalCountry	The fiscal country where the

#### Returns

Type	Description
<a href="#">IFiscalCountryProperties</a>	The fiscal country properties object for the requested country.

#### GetFiscalCountryPropertiesList()

Returns all fiscal country properties stored in the fiscalisation module.

#### Declaration

```
public static List<IFiscalCountryProperties> GetFiscalCountryPropertiesList()
```

#### Returns

Type	Description
<a href="#">List&lt;IFiscalCountryProperties&gt;</a>	A list of all fiscal country properties stored in the fiscalisation module.

#### GetLastAuditLogEntry()

Returns the last audit log entry.

#### Declaration

```
public AuditLogEntry GetLastAuditLogEntry()
```

#### Returns

**Type**      **Description**

[AuditLogEntry](#) The last audit log entry.

#### GetLastClosingDateTime()

##### Declaration

```
public DateTimeOffset? GetLastClosingDateTime()
```

##### Returns

**Type**      **Description**

[DateTimeOffset?](#)

#### GetParameterSecHelper(Guid)

The sec helper for entity parameters.

##### Declaration

```
public static string GetParameterSecHelper(Guid uniqueClientId)
```

##### Parameters

**Type**   **Name**   **Description**

[Guid](#)   uniqueClientId

##### Returns

**Type**   **Description**

[string](#)

#### GetStartDocument(Guid, DateTimeOffset?, User)

Returns a start document for the client of this fiscal module.

##### Declaration

```
public static Document GetStartDocument(Guid uniqueClientId, DateTimeOffset? bookDate = null, User user = null)
```

##### Parameters

**Type**      **Name**      **Description**

[Guid](#)      uniqueClientId      The client for which the start document should be created.

[DateTimeOffset?](#)   bookDate      The book date of the start document; if null [Now](#) is used.

[User](#)      user      A possible user for the start document. If omitted default values will be set. It is recommend to send this information.

##### Returns

**Type**      **Description**

[Document](#)      A start document for the client of this fiscal module.

#### GetStartDocument(DateTime?)

Returns a start document for the client of this fiscal module.

##### Declaration

```
public Document GetStartDocument(DateTime? bookDate = null)
```

##### Parameters

**Type**   **Name**      **Description**

[DateTime?](#)   bookDate      The book date of the start document; if null [Now](#) is used.

##### Returns

**Type**      **Description**

[Document](#)      A start document for the client of this fiscal module.

#### GetStaticStandardLocalClientDataPath(Guid)

Returns the standard local store path for the individual client given by uniqueClientId.

##### Declaration

```
public static string GetStaticStandardLocalClientDataPath(Guid uniqueClientId)
```

##### Parameters

**Type**   **Name**      **Description**

[Guid](#)   uniqueClientId      The client for whom the path is requested.

##### Returns

**Type**      **Description**

Type	Description
<a href="#">string</a>	The standard local store path for the individual client given by <code>uniqueClientId</code> .

#### Remarks

Use this static method only if static is necessary; otherwise you can use [GetClientStoragePath\(\)](#).

#### GetStaticStandardLocalStorePath()

Returns the standard local store path if there's no other path configured.

#### Declaration

```
public static string GetStaticStandardLocalStorePath()
```

#### Returns

Type	Description
<a href="#">string</a>	The standard local store path if there's no other path configured.

#### Remarks

Use this static method only if static is necessary; otherwise you can use [GetStorageBasePath\(\)](#).

#### GetTaxFreeVat()

Returns the vat object for country specific zero tax based transactions.

#### Declaration

```
public Vat GetTaxFreeVat()
```

#### Returns

Type	Description
<a href="#">Vat</a>	A vat object representing the zero tax based vat object.

#### Remarks

Can be used for payin/payout, cash difference.

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if internal fiscal module implementation is null.

#### GetVatIdentification(decimal, DateTime)

Returns the appropriate vat identification for the requested percentage and date/time.

#### Declaration

```
public int? GetVatIdentification(decimal vatPercent, DateTime requestDate)
```

#### Parameters

Type	Name	Description
<a href="#">decimal</a>	vatPercent	The vat percentage for the requested vat identification.
<a href="#">DateTime</a>	requestDate	The date/time for the requested vat identification.

#### Returns

Type	Description
<a href="#">int?</a>	An integer representing the vat identification for the requested values; null if nothing is found.

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

Remarks

You don't have to call [CreateDocument\(DocumentType\)](#) in front, this will be done automatically by this function.

Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>startDocument</code> is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>clientid</code> of document does not match <code>clientid</code> of fiscal module or if <code>documenttype</code> is not set to <a href="#">NullReceipt</a> .
<a href="#">ValidationException</a>	Thrown if one or more document validation errors were raised. You can use <a href="#">ValidateDocument(Document, bool, bool)</a> to test if your document has validation errors.

**MigrateClient(string, string, string, string, string, string)**

Migrates a client from different fiscal system.

Declaration

```
public void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Remarks

The client to migrate must exist in the configuration (client must be created in front of this call similar to [InitializeClient\(Document\)](#)).

The client must not be initialized and there may be no data stored for this client.

Supported different fiscal systems: EFSTA Supported countries for migration: AT

For more information according to cfsta migration see <https://support.retailforce.cloud/hc/de/articles/4419962988177>

Exceptions

Type	Condition
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .

**MigrateClientFile(string, string, string, string, string, string)**

Migrates a client from different fiscal system with file import.

Declaration

```
public void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Remarks

The client to migrate must exist in the configuration (client must be created in front of this call similar to [InitializeClient\(Document\)](#)).

The client must not be initialized and there may no data stored for this client.

Supported countries for migration: AT

For more information according file migration see <https://support.retailforce.cloud/hc/de/articles/4420036679185>

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
public void OpenDrawer(User user)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).

#### ReprintDocument(Document, string)

Method to store the reprint count of a document sending the document again. The user of the transferred document must be the reprinting user (not the user of the original document).

#### Declaration

```
public FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.
<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Remarks

`AuditLog`: Adds an entry to the audit log with type: `LogEntryType.ReprintDocument`.

Important: The user of the transferred document (parameter: `document` must be the user which is requesting the reprint and not the user of the original document).

Attention: There's no check if document data is the same, this must be ensured by the pos application. The document itself will not be stored again to the document store.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.

#### ReprintDocument(Guid, User, string, int)

Method to store reprint count of a document using the stored document (reference: `documentGuid`).

#### Declaration

```
public FiscalResponse ReprintDocument(Guid documentGuid, User user, string reason, int daysBack = -1)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid to reference the document which should be reprinted.
<a href="#">User</a>	user	The user which is requesting the reprint. Not null.
<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing. Setting this parameter to a high value can decrease performance.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Remarks

The document is searched in the document store with the document id (normal case: current closing). If the document is not found 404 (NOT FOUND) is responded. You can extend the search to several days back if you increase parameter `daysBack`.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>user</code> is set to null.
<a href="#">KeyNotFoundException</a>	Thrown if the requested document is not found.

#### RestoreByCloudInitializeClient()

This method is called after restore by cloud to do several initialization steps (if necessary).

#### Declaration

```
public void RestoreByCloudInitializeClient()
```

#### Remarks

Used in Austria to reinitialize dep if necessary

#### RevertDocument(Document)

Reverts a document (turns all values negative)

#### Declaration

```
public static Document RevertDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to revert.

#### Returns

Type	Description
<a href="#">Document</a>	The reverted document.

#### Remarks

There is no document validation done in this method.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.

#### StoreDocument(Document)

Stores a document to the fiscal system and all attached data queue elements.

#### Declaration

```
public FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
------	-------------



Type	Description
<a href="#">FiscalResponse</a>	The <a href="#">FiscalResponse</a> object containing the fiscal response.

#### Remarks

Before using [StoreDocument\(Document\)](#) you have to call [CreateDocument\(DocumentType\)](#).

ATTENTION: It is important to create the document at the beginning of a transaction (e.g. when the first item is added). You won't be legally secure in german environment if your not creating the document at the beginning of the sales transaction.

#### Exceptions

Type	Condition
<a href="#">ValidationException</a>	Thrown if one or more document validation errors where raised. You can use <a href="#">ValidateDocument(Document, bool, bool)</a> to test if your document has validation errors.
<a href="#">ArgumentNullException</a>	Thrown if <code>document</code> parameter is set to null.
<a href="#">InvalidOperationException</a>	Thrown if <code>Document.UniqueClientId</code> is set to <a href="#">Empty</a> or given <code>clientId</code> does not match fiscal client guid.
<a href="#">NotSupportedException</a>	Thrown if document type <a href="#">MiscellaneousNonFiscal</a> is sent.
<a href="#">InvalidDataException</a>	Thrown if book date of document is out of the range of the <a href="#">MaximumHourIntervalForClosing</a> .
<a href="#">ArgumentException</a>	Thrown if <a href="#">FiscalResponse</a> property is set.

#### UpdateLicense(string, string, bool)

Updates license in actual memory configuration (not on disk) and returns the actual license key.

#### Declaration

```
public string UpdateLicense(string cloudapiKey, string cloudapiSecret, bool forceUpdate = false)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	<code>cloudapiKey</code>	The api key for cloud connection.
<a href="#">string</a>	<code>cloudapiSecret</code>	The api secret for cloud connection.
<a href="#">bool</a>	<code>forceUpdate</code>	Forces to download new licensekey from cloud.

#### Returns

Type	Description
<a href="#">string</a>	String.Empty if license key is valid for more than 5 days or cannot be updated and a new license key.

#### Remarks

To store the license key to disk you have to update the `licenseKey` in fiscal client configuration and call [UpdateClient\(FiscalClient\)](#)

#### UpdateVersion(string)

Updates version in `cashregister.software` of client.

#### Declaration

```
public bool UpdateVersion(string newVersion)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	<code>newVersion</code>	The new version which is used. Not null and empty.

#### Returns

Type	Description
<a href="#">bool</a>	True if the version was updated; False is version was not updated.

#### Remarks

Version will not be updated if

- version stored is already the same
- Software object is null cash register object

This method will also generate appropriate audit log messages for software update.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>newVersion</code> is set to null or <a href="#">Empty</a> .

### UploadDigitalReceipt(Stream, ReceiptMetaData)

Uploads digital receipt (if proper license exists).

#### Declaration

```
public string UploadDigitalReceipt(Stream file, ReceiptMetaData receiptMetaData)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	file	The pdf file as stream.

[ReceiptMetaData](#) receiptMetaData The metadata for the receipt.

#### Returns

Type	Description
<a href="#">string</a>	An url to request the file in the cloud.

#### Remarks

If `receiptMetaData` is set to null, only `bookDate` is set to `Now`, other values are not set.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>file</code> is set to null.

[InvalidDataException](#) Thrown if length of stream is greater 150kB.

### UploadDigitalReceipt(Stream, Guid)

Upload digital receipt (if proper license exists). Only in combination with fiscalisation.

#### Declaration

```
public string UploadDigitalReceipt(Stream file, Guid documentGuid)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	file	The file to upload.

[Guid](#) documentGuid The document guid of the document to get the receipt meta data. Document must be transferred before to fiscalisation.

#### Returns

Type	Description
<a href="#">string</a>	An url to request the file in the cloud.

#### Remarks

You can only use documents from the actual day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>file</code> is set to null.

[ArgumentNullException](#) Thrown if parameter `documentGuid` is set to `Empty`.

[KeyNotFoundException](#) Thrown if the given `documentGuid` does not found a document in the document store.

[InvalidDataException](#) Thrown if length of stream is greater 150kB.

### UploadSupportPackage(string)

Uploads a support package (including transaction data and log file) to the cloud.

#### Declaration

```
public void UploadSupportPackage(string logFilePath = "")
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	logFilePath	Has to be set if the module is implemented with .net integration and log files are written by a special logger of the hosting application.

#### Remarks

You have to call method `CloudConnect(string, string, Action<CloudConnector>)` first to establish a cloud connection.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if no license for support package is found.
<a href="#">InvalidOperationException</a>	Thrown if CloudConnect was not called in front or cloudApiKey/cloudApiSecret were not supplied for CloudConnect.
<a href="#">NotSupportedException</a>	Thrown if this method is called in cloud environment ( <a href="#">Cloud</a> ).

### ValidateDocument(Document, bool, bool)

Validates a document against all attached data queue elements.

#### Declaration

```
public List<DocumentValidationError> ValidateDocument(Document document, bool cancelledDocument = false, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.
<a href="#">bool</a>	cancelledDocument	True if the document was cancelled before storing ("SOFORTSTORNO", "BONABBRUCH"); otherwise false. In this case other parameters are checked. Default is False.
<a href="#">bool</a>	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of <a href="#">DocumentValidationError</a> objects representing all errors and warnings for the given document. In the best case: An empty list.

#### Remarks

It is not allowed to use `cancelledDocument` and `reprintDocument = true` at the same call.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>document</code> parameter is set to null.
<a href="#">ArgumentException</a>	Thrown if both parameter <code>cancelledDocument</code> and <code>reprintDocument = true</code> .

#### Implements

[IDisposable](#)

# Class TrustedFiscalModuleBase

Base class for [TrustedFiscalModule](#) and [TrustedFiscalModuleImplementationBase](#)<[TClientConfiguration](#), [TRequiredAttribute](#)>.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase](#)<[TClientConfiguration](#), [TRequiredAttribute](#), [TCountryProperties](#)>  
[TrustedFiscalModule](#)

## Inherited Members

[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class TrustedFiscalModuleBase : LoggingBase
```

## Constructors

**TrustedFiscalModuleBase(FiscalClient, ILogger, string, FiscalDataStorageProvider)**

Constructor.

## Declaration

```
protected TrustedFiscalModuleBase(FiscalClient client, ILogger logger, string logSource, FiscalDataStorageProvider storageProvider)
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The fiscal client for the modules.
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">string</a>	logSource	The log source for this class.
<a href="#">FiscalDataStorageProvider</a>	storageProvider	The storage provider to gain access to data storages local and in the cloud.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>client</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>logger</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>logSource</code> is set to null or <a href="#">Empty</a> .

## Type

## Condition

[ArgumentNullException](#) Thrown if `storageProvider` is set to null.

## Fields

### Client

The fiscal client for this module.

#### Declaration

```
protected readonly FiscalClient Client
```

#### Field Value

Type	Description
------	-------------

<a href="#">FiscalClient</a>	
------------------------------	--

## Properties

### FiscalClient

The fiscal client of the `TrustedFiscalModule`.

#### Declaration

```
public FiscalClient FiscalClient { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FiscalClient</a>	
------------------------------	--

### FiscalModuleEnvironment

The fiscal environment for this fiscal module.

#### Declaration

```
protected FiscalModuleEnvironment FiscalModuleEnvironment { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FiscalModuleEnvironment</a>	
---	--

### FiscalStorageProvider

The storage provider to gain access to data storages local and in the cloud.

#### Declaration

```
public FiscalDataStorageProvider FiscalStorageProvider { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FiscalDataStorageProvider</a>	
---	--

## Methods

### GetClientStoragePath()

Returns the storage path for the client for this fiscal module. Returns always a path (default is: `c:\programData\RetailForce\Fiscal WebService\{UniqueClientId}` if no path was set).

#### Declaration

```
[Obsolete("Do not use anymore according to cloud fiscalisation.")]  
public string GetClientStoragePath()
```

#### Returns

Type	Description
------	-------------

[string](#) The storage path for the client for this fiscal module.

### GetStorageBasePath()

Returns the root directory for the fiscal module path. Returns always a path (default is: c:\programData\RetailForce\Fiscal WebService if no path was set).

#### Declaration

```
[Obsolete("Do not use anymore according to cloud fiscalisation.")]  
public string GetStorageBasePath()
```

#### Returns

Type	Description
------	-------------

[string](#) The root directory for the fiscal module path.

### GetUniqueCashRegisterId(string, string, char)

Default cashregister id for all countries.

#### Declaration

```
public static string GetUniqueCashRegisterId(string storeNumber, string terminalNumber, char countrySeparator)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) storeNumber The store number of the client.

[string](#) terminalNumber The terminal number of the client.

[char](#) countrySeparator The separator for the individual country, "/" in austria, "-" in germany.

#### Returns

Type	Description
------	-------------

[string](#)

# Namespace RetailForce.Fiscalisation.Cloud

## Classes

### [AuthenticationFailureEventArgs](#)

EventArgs if authentication failure occurs in cloud client.

### [CloudClient](#)

functions to communicate with the cloud

### [CloudClientSettings](#)

### [CloudFunctionCall](#)

Represents a cloud function call to api.retailforce.cloud (not functions.retailforce.cloud).

### [CloudFunctionCallParameter](#)

Parameter for buffered cloud function call

### [CloudMessage](#)

Represents a message in the cloud.

### [CloudService](#)

Upload service (background) for cloud data communication.

### [CloudTokenFile](#)

### [FileUploadFailureEventArgs](#)

Event arguments for [FileUploadFailure](#) event.

### [ValueEntity](#)

## Delegates

### [CloudService.AuthenticationFailureEventHandler](#)

EventHandler delegate for authentication failure event.

### [CloudService.FileUploadFailureEventHandler](#)

Event handler for file upload failure event.

# Class AuthenticationFailureEventArgs

EventArgs if authentication failure occurs in cloud client.

## Inheritance

[object](#)

[EventArgs](#)

AuthenticationFailureEventArgs

## Inherited Members

[EventArgs.Empty](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AuthenticationFailureEventArgs : EventArgs
```

## Properties

### CloudApiKey

The api key of the failed authentication.

#### Declaration

```
public string CloudApiKey { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CloudApiSecret

The api secret of the failed authentication.

#### Declaration

```
public string CloudApiSecret { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### UniqueClientId

The clientid where the authentication fails.

#### Declaration

```
public Guid UniqueClientId { get; set; }
```



Property Value

Type Description

[Guid](#)

# Class CloudClient

functions to communicate with the cloud

## Inheritance

[object](#)

[LoggingBase](#)

[RestServiceBasicClient<ApiErrorModel>](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>](#)

[CloudConnector](#)

CloudClient

## Implements

[IDisposable](#)

## Inherited Members

[CloudConnector.RefreshToken](#)

[CloudConnector.Dispose\(\)](#)

[CloudConnector.AuthenticateImplementation\(string\)](#)

[CloudConnector.AuthenticateImplementation\(string, string\)](#)

[CloudConnector.ProcessSignOut\(\)](#)

[CloudConnector.ProcessResponseError\(string, IRestResponse\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.ApiKey](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.Authenticated](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.AuthenticationResponse](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.Authenticate\(string, string\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.Authenticate\(string\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.SignOut\(\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.GetDownloadFile\(string, string, params Parameter\[\]\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.GetDownloadStream\(string, Stream, params Parameter\[\]\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.AuthenticateImplementation\(string, string\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.AuthenticateImplementation\(string\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.ProcessSignOut\(\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.ClearAuthenticationResponse\(\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.CreateClient\(\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.RestRequest<TReturnType>\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse<TReturnType>>, params Parameter\[\]\)](#)

[RestServiceClient<AuthenticationResponse, ApiErrorModel>.RestRequest\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse>, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.BaseUrl](#)

[RestServiceBasicClient<ApiErrorModel>.ProxyConfiguration](#)

[RestServiceBasicClient<ApiErrorModel>.AdditionalParameters](#)

[RestServiceBasicClient<ApiErrorModel>.UseNewtonsoftSerialization](#)

[RestServiceBasicClient<ApiErrorModel>.Get<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Post\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Post<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Put\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Put<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Patch\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Patch<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Head\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Head<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Delete\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Delete<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.CreateClient\(\)](#)

[RestServiceBasicClient<ApiErrorModel>.CreateRequest\(string, Method, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.RestRequest<TReturnType>\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse<TReturnType>>, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.RestRequest\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse>, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.ProcessResponseError<TReturnType>\(IRestResponse<TReturnType>\)](#)

[LoggingBase\\_logger](#)

[LoggingBase\\_logSource](#)

[LoggingBase.LogCritical\(string, params object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogError\(string, params object\[\]\)](#)

[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogWarning\(string, params object\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class CloudClient : CloudConnector, IDisposable
```

## Constructors

**CloudClient(ILogger, string, ProxyConfiguration)**

Creates a cloud client

#### Declaration

```
public CloudClient(ILogger logger, string localTempFileStorePath, ProxyConfiguration proxyConfiguration = null)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	A logger for logging purposes.
<a href="#">string</a>	localTempFileStorePath	Base path of the local file store
<a href="#">ProxyConfiguration</a>	proxyConfiguration	Optional. Can be used to use proxy for communication with the rest service.

#### Methods

##### DeleteBackupFile(Guid, string, string, DateTime)

Deletes a backup for the given client from the cloud storage.

#### Declaration

```
public void DeleteBackupFile(Guid uniqueClientId, string apiKey, string apiSecret, DateTime backupDate)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The clientId of the client to delete the backup.
<a href="#">string</a>	apiKey	The api key for cloud connection.
<a href="#">string</a>	apiSecret	The api secret for cloud connection.
<a href="#">DateTime</a>	backupDate	The date of the backup to be deleted.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueClientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>apiKey</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>apiSecret</code> is set to null or <a href="#">Empty</a> .

##### DownloadWithSasUrl(string, string)

downloads a zip file with sas link to the destination folder/file

#### Declaration

```
public string DownloadWithSasUrl(string sasUrl, string destination)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	sasUrl	Url with the shared access signatures
<a href="#">string</a>	destination	Contains the file path where the document should be stored, if no filename is in the path the file name is blob name from the cloud

#### Returns

Type	Description
<a href="#">string</a>	The full path with filename of the downloaded file

##### GetArchiveDownloadUrls(string, string, Guid, string, DateTime, DateTime)

returns the count of the archive files from the current day

#### Declaration

```
public List<string> GetArchiveDownloadUrls(string apiKey, string apiSecret, Guid uniqueClientId, string license, DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	apiKey	
<a href="#">string</a>	apiSecret	
<a href="#">Guid</a>	uniqueClientId	
<a href="#">string</a>	license	
<a href="#">DateTime</a>	fromDate	
<a href="#">DateTime</a>	tillDate	

#### Returns

Type	Description
<a href="#">List&lt;string&gt;</a>	int with the count

#### GetClientIdFromFilePath(string)

returns the uniqueClientId (last directory from an filename)

#### Declaration

```
public static Guid GetClientIdFromFilePath(string fullFileName)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	fullFileName	

#### Returns

Type	Description
<a href="#">Guid</a>	Guid uniqueClientId

#### GetCurrentDayArchiveCount(string, string, Guid, string)

returns the count of the archive files from the current day

#### Declaration

```
public int GetCurrentDayArchiveCount(string apiKey, string apiSecret, Guid uniqueClientId, string license)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	apiKey	
<a href="#">string</a>	apiSecret	
<a href="#">Guid</a>	uniqueClientId	
<a href="#">string</a>	license	

#### Returns

Type	Description
<a href="#">int</a>	int with the count

#### GetDataUploadStream(string, string, Guid, string, string, string)

opens a upload stream with the given url

#### Declaration

```
public Stream GetDataUploadStream(string apiKey, string apiSecret, Guid uniqueClientId, string license, string cloudFolder, string cloudFileName)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	apiKey	
<a href="#">string</a>	apiSecret	
<a href="#">Guid</a>	uniqueClientId	
<a href="#">string</a>	license	
<a href="#">string</a>	cloudFolder	
<a href="#">string</a>	cloudFileName	

#### Returns

**Type**            **Description**

[Stream](#) An open stream to upload the content

### **GetLicenseToken(CloudClientSettings, bool)**

returns the upload token, get from temp file, if not available request a new one

#### **Declaration**

```
public string GetLicenseToken(CloudClientSettings clientSettings, bool renew = false)
```

#### **Parameters**

Type	Name	Description
<a href="#">CloudClientSettings</a>	clientSettings	
<a href="#">bool</a>	renew	request an new token and overrides the file

#### **Returns**

#### **Type Description**

[string](#)

### **GetRestoreSasUrl(CloudClientSettings, DateTime?)**

Returns the sas url to download from cloud backup.

#### **Declaration**

```
public string GetRestoreSasUrl(CloudClientSettings clientSettings, DateTime? backupDate)
```

#### **Parameters**

Type	Name	Description
<a href="#">CloudClientSettings</a>	clientSettings	The client settings for the cloud client. Not null.
<a href="#">DateTime?</a>	backupDate	The date of the backup to restore, if null the last backup is returned.

#### **Returns**

#### **Type Description**

[string](#) The sas url to download from cloud backup.

#### **Exceptions**

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientSettings</code> is set to null.
<a href="#">AuthenticationException</a>	Thrown if it is not possible to authenticate to the cloud.

### **RequestCleanDocuments(string, Guid)**

requests a upload token from cloud

#### **Declaration**

```
public void RequestCleanDocuments(string licenseToken, Guid uniqueClientId)
```

#### **Parameters**

Type	Name	Description
<a href="#">string</a>	licenseToken	License token to validate the license
<a href="#">Guid</a>	uniqueClientId	Client id from the fiscalisation

### **RequestCleanTransactions(string, Guid)**

requests a upload token from cloud

#### **Declaration**

```
public void RequestCleanTransactions(string licenseToken, Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	licenseToken	License token to validate the license
<a href="#">Guid</a>	uniqueClientId	Client id from the fiscalisation

#### RequestDataUploadSasUrl(string, Guid, string, string)

requests a upload token from cloud

#### Declaration

```
public string RequestDataUploadSasUrl(string licenseToken, Guid uniqueClientId, string fileType, string fileName)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	licenseToken	License token to validate the license
<a href="#">Guid</a>	uniqueClientId	Client id from the fiscalisation
<a href="#">string</a>	fileType	type of the file (in the cloud it will be stored as directory)
<a href="#">string</a>	fileName	name of the file after upload in the cloud

#### Returns

#### Type Description

[string](#)

#### RequestLicenseToken(Guid, string)

requests a upload token from cloud

#### Declaration

```
public string RequestLicenseToken(Guid uniqueClientId, string accessLicenseId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	Client id from the fiscalisation
<a href="#">string</a>	accessLicenseId	

#### Returns

#### Type Description

[string](#) The license token

#### RequestSasToken(string, Guid, string, string)

requests a upload token from cloud

#### Declaration

```
public string RequestSasToken(string licenseToken, Guid uniqueClientId, string fileType, string fileName)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	licenseToken	License token to validate the license
<a href="#">Guid</a>	uniqueClientId	Client id from the fiscalisation
<a href="#">string</a>	fileType	type of the file (in the cloud it will be stored as directory)
<a href="#">string</a>	fileName	name of the file after upload in the cloud

#### Returns

## Type Description

[string](#)

### UpdateUniqueReceiptId(CloudClientSettings, string, string)

updates the unique receipt id value in cloud for the client per function

#### Declaration

```
public void UpdateUniqueReceiptId(CloudClientSettings clientSettings, string licenseToken, string filename)
```

#### Parameters

Type	Name	Description
<a href="#">CloudClientSettings</a>	clientSettings	client settings for cloud update
<a href="#">string</a>	licenseToken	The necessary license token for update.
<a href="#">string</a>	filename	The filename within the new unique receipt id.

### UploadDigitalReceipt(Guid, string, string, ReceiptMetaData)

uploads a file and generates a download url per function (attention expiration have to be defined in sas function)

#### Declaration

```
public void UploadDigitalReceipt(Guid uniqueClientId, string licenseToken, string filePath, ReceiptMetaData receiptMetaData = null)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The id of the client.
<a href="#">string</a>	licenseToken	The necessary license token for upload.
<a href="#">string</a>	filePath	The file/path to the pdf file.

[ReceiptMetaData](#) receiptMetaData Meta data for the receipt.

### UploadDocumentStore(CloudClientSettings, string, string)

Uploads data of [CosmosDocument](#) to the cloud.

#### Declaration

```
public void UploadDocumentStore(CloudClientSettings clientSettings, string licenseToken, string filename)
```

#### Parameters

Type	Name	Description
<a href="#">CloudClientSettings</a>	clientSettings	
<a href="#">string</a>	licenseToken	
<a href="#">string</a>	filename	

### UploadStorageData(CloudClientSettings, string, string)

Uploads data of [DataStorage<TData>](#) to the cloud.

#### Declaration

```
public void UploadStorageData(CloudClientSettings clientSettings, string licenseToken, string filename)
```

#### Parameters

Type	Name	Description
<a href="#">CloudClientSettings</a>	clientSettings	
<a href="#">string</a>	licenseToken	
<a href="#">string</a>	filename	

## Implements

[IDisposable](#)

# Class CloudClientSettings

## Inheritance

[object](#)

CloudClientSettings

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudClientSettings
```



# Class CloudFunctionCall

Represents a cloud function call to `api.retailforce.cloud` (not `functions.retailforce.cloud`).

## Inheritance

[object](#)

CloudFunctionCall

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudFunctionCall
```

## Properties

### Body

The body of the http request (can be null).

### Declaration

```
public object Body { get; set; }
```

### Property Value

### Type Description

[object](#)

### FunctionRelativeUrl

The relative url of the function call (based on <https://api.retailforce.cloud/api/v1.0>), example: `licensing/token`

### Declaration

```
public string FunctionRelativeUrl { get; set; }
```

### Property Value

### Type Description

[string](#)

## Method

The http method to use.

### Declaration

```
public Method Method { get; set; }
```

### Property Value

## Type Description

Method

## Parameters

The parameters of the http request.

## Declaration

```
public List<CloudFunctionCallParameter> Parameters { get; set; }
```

## Property Value

Type	Description
<a href="#">List&lt;CloudFunctionCallParameter&gt;</a>	

## Remarks

Do not use body type parameter, use body property instead.

## RestSharpParameters

### Declaration

```
[JsonIgnore]  
public Parameter[] RestSharpParameters { get; }
```

### Property Value

Type	Description
Parameter[]	

## Methods

### GetFilename()

Method to get the file name for the buffer.

### Declaration

```
public string GetFilename()
```

### Returns

Type	Description
<a href="#">string</a>	The filename of the function call (buffer filename).

# Class CloudFunctionCallParameter

Parameter for buffered cloud function call

## Inheritance

[object](#)

CloudFunctionCallParameter

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudFunctionCallParameter
```

## Constructors

### CloudFunctionCallParameter()

Constructor.

### Declaration

```
public CloudFunctionCallParameter()
```

### Remarks

Required for serialization.

### CloudFunctionCallParameter(string, ValueEntity, ParameterType)

Constructor.

### Declaration

```
public CloudFunctionCallParameter(string name, ValueEntity value, ParameterType parameterType)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">ValueEntity</a>	value	The value of the parameter.

[ParameterType](#) parameterType The type of the parameter. See [ParameterType](#) for more information.

### CloudFunctionCallParameter(string, bool, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, bool value, ParameterType parameterType)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">bool</a>	value	The value of the parameter.

[ParameterType](#) parameterType The type of the parameter. See [ParameterType](#) for more information.

#### CloudFunctionCallParameter(string, DateTime, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, DateTime value, ParameterType parameterType)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">DateTime</a>	value	The value of the parameter.

[ParameterType](#) parameterType The type of the parameter. See [ParameterType](#) for more information.

#### CloudFunctionCallParameter(string, Enum, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, Enum value, ParameterType parameterType)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">Enum</a>	value	The value of the parameter.

[ParameterType](#) parameterType The type of the parameter. See [ParameterType](#) for more information.

#### CloudFunctionCallParameter(string, Guid, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, Guid value, ParameterType parameterType)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">Guid</a>	value	The value of the parameter.
ParameterType	parameterType	The type of the parameter. See <a href="#">ParameterType</a> for more information.

### CloudFunctionCallParameter(string, int, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, int value, ParameterType parameterType)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">int</a>	value	The value of the parameter.
ParameterType	parameterType	The type of the parameter. See <a href="#">ParameterType</a> for more information.

### CloudFunctionCallParameter(string, long, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, long value, ParameterType parameterType)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)
<a href="#">long</a>	value	The value of the parameter.
ParameterType	parameterType	The type of the parameter. See <a href="#">ParameterType</a> for more information.

### CloudFunctionCallParameter(string, string, ParameterType)

Constructor.

#### Declaration

```
public CloudFunctionCallParameter(string name, string value, ParameterType parameterType)
```

## Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">string</a>	name	The name of the parameter (query parameter, body parameter, etc.)

<a href="#">string</a>	value	The value of the parameter.
------------------------	-------	-----------------------------

ParameterType parameterType The type of the parameter. See [ParameterType](#) for more information.

## Properties

### Name

The name of the parameter (query parameter, body parameter, etc.)

### Declaration

```
public string Name { get; set; }
```

### Property Value

### Type Description

[string](#)

### ParameterType

The type of the parameter. See [ParameterType](#) for more information.

### Declaration

```
public ParameterType ParameterType { get; set; }
```

### Property Value

Type	Description
------	-------------

ParameterType	
---------------	--

### Value

The value of the parameter. To support different types of objects use ValueEntity class.

### Declaration

```
[JsonConverter(typeof(ValueEntityConverter))]  
[JsonProperty]  
public object Value { get; }
```

### Property Value

### Type Description

[object](#)

# Class CloudMessage

Represents a message in the cloud.

## Inheritance

[object](#)

CloudMessage

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudMessage
```

## Fields

### ClientInitializationCompleted

#### Declaration

```
public const string ClientInitializationCompleted = "ClientInitializationCompletedMessage"
```

#### Field Value

### Type Description

[string](#)

## Properties

### MessageTypeName

The name of the message name.

#### Declaration

```
public string MessageTypeName { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Parameter

The parameter of the message.

#### Declaration

```
public List<string> Parameter { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	
------------------------------------	--



## Class CloudService

Upload service (background) for cloud data communication.

### Inheritance

[object](#)

CloudService

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class CloudService
```

### Constructors

#### CloudService(ILogger, string, bool, ProxyConfiguration)

Constructor.

#### Declaration

```
public CloudService(ILogger logger, string localStoragePath, bool startUpload = true, ProxyConfiguration proxyConfiguration = null)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">string</a>	localStoragePath	
<a href="#">bool</a>	startUpload	

ProxyConfiguration proxyConfiguration Optional. Can be used to use proxy for communication with the rest service.

#### CloudService(ILogger, string, Guid, string, string, ProxyConfiguration)

#### Declaration

```
public CloudService(ILogger logger, string localStoragePath, Guid uniqueClientId, string cloudApiKey, string cloudApiSecret, ProxyConfiguration proxyConfiguration = null)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">string</a>	localStoragePath	
<a href="#">Guid</a>	uniqueClientId	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

ProxyConfiguration proxyConfiguration Optional. Can be used to use proxy for communication with the rest service.

### Properties

#### BasePath

returns the base path where the cloud files have to be written

#### Declaration

```
public string BasePath { get; }
```

#### Property Value

#### Type Description

[string](#)

#### ProxyConfiguration

The configuration for the cloud service to use proxy for cloud communication.

#### Declaration

```
public ProxyConfiguration ProxyConfiguration { get; }
```

#### Property Value

#### Type Description

ProxyConfiguration

#### QueueProcessing

Returns whether the queue is actual processing or not.

#### Declaration

```
public bool QueueProcessing { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### QueuedFileNames

Returns all currently queued files for upload.

#### Declaration

```
public IEnumerable<string> QueuedFileNames { get; }
```

#### Property Value

Type	Description
<a href="#">IEnumerable&lt;string&gt;</a>	

#### QueuedFiles

Returns the count of the queued files for cloud transfer.

#### Declaration

```
public int QueuedFiles { get; }
```

#### Property Value

#### Type Description

[int](#)

#### StopQueueProcessing

Setting this value to true stops the queue processing (after the actual file was done).

#### Declaration

```
public bool StopQueueProcessing { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Remarks

Queue processing can be restarted setting this value to true (after timer is elapsed again). Also restarting or reinstantiating [CloudService](#) restarts queue processing again.

Default is false.

#### Methods

#### AddNewFile(Guid, string, string, string, string)

Add new file

#### Declaration

```
public Task AddNewFile(Guid uniqueClientId, string accessKey, string accessSecret, string accessLicenseId, string fileName)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	
<a href="#">string</a>	accessKey	
<a href="#">string</a>	accessSecret	
<a href="#">string</a>	accessLicenseId	
<a href="#">string</a>	fileName	

#### Returns

#### Type Description

[Task](#)

#### GetLocalClientTempUploadDirectory(Guid)

Returns the directory for the temp files for uploading data to the cloud (temp directory).

#### Declaration

```
public string GetLocalClientTempUploadDirectory(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The id of the client where the temp upload directory is requested.

#### Returns

Type	Description
<a href="#">string</a>	The directory for the temp files for uploading data to the cloud (temp directory).

#### Remarks

If returned directory does not exist, it will be created with this method.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueClientId</code> is set to <a href="#">Empty</a> .

### RaiseAuthenticationFailure(Guid, string, string)

#### Declaration

```
protected void RaiseAuthenticationFailure(Guid uniqueClientId, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>uniqueClientId</code>	
<a href="#">string</a>	<code>cloudApiKey</code>	
<a href="#">string</a>	<code>cloudApiSecret</code>	

### RaiseFileUploadFailure(Guid, string, Exception)

#### Declaration

```
protected FileUploadFailureEventArgs RaiseFileUploadFailure(Guid clientId, string filenamePath, Exception exception)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>clientId</code>	
<a href="#">string</a>	<code>filenamePath</code>	
<a href="#">Exception</a>	<code>exception</code>	

#### Returns

Type	Description
<a href="#">FileUploadFailureEventArgs</a>	

### ReInitializeQueue()

Reinitializes queue (for instance if a client is restored).

#### Declaration

```
public void ReInitializeQueue()
```

### SetCloudCredentials(Guid, string, string)

Reset cloud credentials.

#### Declaration

```
public void SetCloudCredentials(Guid uniqueClientId, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>uniqueClientId</code>	
<a href="#">string</a>	<code>cloudApiKey</code>	
<a href="#">string</a>	<code>cloudApiSecret</code>	

### StartQueueProcessing()

Starts queue processing immediately if queue processing is not already running.

#### Declaration

```
public void StartQueueProcessing()
```

### WaitForStopQueueProcessing()

Waits until queue processing has stopped (and stops queue processing).

#### Declaration

```
public void WaitForStopQueueProcessing()
```

## Events

### AuthenticationFailure

Raised when an authentication failure occurs during cloud synchronisation.

#### Declaration

```
public event CloudService.AuthenticationFailureEventHandler AuthenticationFailure
```

**Event Type**

Type	Description
<a href="#">CloudService.AuthenticationFailureEventHandler</a>	

**FileUploadFailure**

Raised when file upload error occurs.

**Declaration**

```
public event CloudService.FileUploadFailureEventHandler FileUploadFailure
```

**Event Type**

Type	Description
<a href="#">CloudService.FileUploadFailureEventHandler</a>	

**Remarks**

Setting [DeleteFile](#) will delete the file in case of error. Default value is false. Attention: This can lead to data loss and should only be used in exceptional cases.

# Delegate CloudService.AuthenticationFailureEventHandler

EventHandler delegate for authentication failure event.

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public delegate void CloudService.AuthenticationFailureEventHandler(object sender, AuthenticationFailureEventArgs args)
```

## Parameters

Type	Name	Description
<a href="#">object</a>	sender	
<a href="#">AuthenticationFailureEventArgs</a>	args	

# Delegate CloudService.FileUploadFailureEventHandler

Event handler for file upload failure event.

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public delegate void CloudService.FileUploadFailureEventHandler(object sender, FileUploadFailureEventArgs args)
```

## Parameters

Type	Name	Description
<a href="#">object</a>	sender	The sender of the event.
<a href="#">FileUploadFailureEventArgs</a> args	The <a href="#">FileUploadFailureEventArgs</a>	representing the event args for this event.

# Class CloudTokenFile

## Inheritance

[object](#)

CloudTokenFile

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudTokenFile
```

## Properties

### AccessLicenseId

#### Declaration

```
public string AccessLicenseId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### RefreshToken

#### Declaration

```
public string RefreshToken { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### SasToken

#### Declaration

```
public string SasToken { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class FileUploadFailureEventArgs

Event arguments for [FileUploadFailure](#) event.

## Inheritance

[object](#)

FileUploadFailureEventArgs

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FileUploadFailureEventArgs
```

## Properties

### ClientId

The client which correspond to the file.

#### Declaration

```
public Guid ClientId { get; }
```

#### Property Value

### Type Description

[Guid](#)

### DeleteFile

Set to true if the file which causes the error should be deleted; otherwise false.

#### Declaration

```
public bool DeleteFile { get; set; }
```

#### Property Value

### Type Description

[bool](#)

## Remarks

Setting [DeleteFile](#) will delete the file in case of error. Default value is false. Attention: This can lead to data loss and should only be used in exceptional cases.

## Exception

The exception which causes the error.



**Declaration**

```
public Exception Exception { get; }
```

**Property Value****Type Description**

[Exception](#)

**FilenamePath**

The file (with path) which causes the error.

**Declaration**

```
public string FilenamePath { get; }
```

**Property Value****Type Description**

[string](#)

# Class ValueEntity

## Inheritance

[object](#)

ValueEntity

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(ValueEntityConverter))]  
public class ValueEntity
```

## Constructors

### ValueEntity()

#### Declaration

```
public ValueEntity()
```

### ValueEntity(Type, object)

#### Declaration

```
public ValueEntity(Type valueType, object value)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">Type</a>	valueType	
----------------------	-----------	--

<a href="#">object</a>	value	
------------------------	-------	--

## Properties

### Value

#### Declaration

```
public object Value { get; set; }
```

#### Property Value

### Type Description

[object](#)

### ValueType

#### Declaration

```
public Type ValueType { get; set; }
```

**Property Value**

**Type Description**

[Type](#)

# Namespace **RetailForce.Fiscalisation.Cloud.Implementation.Austria**

## Classes

### [BoolResponse](#)

Represents a boolean response from the cash register fon service.

### [ResultResponse](#)

Represents a result response from the cash register fon service (with message from service).

# Class BoolResponse

Represents a boolean response from the cash register fon service.

## Inheritance

[object](#)

BoolResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BoolResponse
```

## Properties

### Activated

True if the requested ressource is ok (IN\_BETRIEB); otherwise false.

#### Declaration

```
public bool Activated { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### Message

The message of the response.

#### Declaration

```
public string Message { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class ResultResponse

Represents a result response from the cash register fon service (with message from service).

## Inheritance

[object](#)

ResultResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Cloud.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ResultResponse
```

## Properties

### Message

The message of the response.

#### Declaration

```
public string Message { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Result

The result code of the response.

#### Declaration

```
public string Result { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Namespace RetailForce.Fiscalisation.Configuration

## Classes

### [Address](#)

Address object.

### [CachedConfigurationProviderBase](#)

Abstract configuration provider to load the configuration into cache memory for the fiscal system.

### [CashRegister](#)

A single cash Register

### [ClientConfigurationJsonConverter](#)

Json Converter to read client configuration

### [CompanyIdentification](#)

Represents a company identification number (vat number, tax number, ...)

### [ConfigurationProviderBase](#)

Abstract configuration provider to load the configuration for the fiscal system.

### [ConfigurationValidationBase](#)

Base class for all configuration objects with validation.

### [EntityParameterInfo](#)

Class for necessary entity parameter in fiscal country properties

### [FileConfigurationProvider](#)

Configuration provider with file access (one file for all clients).

### [FiscalClient](#)

Represents a single fiscal client (representation of a cash register)

### [FiscalCountryExtension](#)

### [JsonConfiguration](#)

The Json configuration class for the list of clients.

### [JsonConfigurationProviderBase](#)

Base class to read configuration from json string.

### [Parameter](#)

Represents a configuration parameter.

### [ParameterInfo](#)

Parameter description object for parameters in configuration.

### [Software](#)

Cashregister software information.

## **Interfaces**

### **IFiscalImplementationConfiguration**

Basic interface for client configuration according to the correct country.

## **Enums**

### **CompanyIdentification.IdentificationType**

The supported identification types.

### **FiscalCountry**

Supported countries.

### **FiscalModuleEnvironment**

Represents the environment where the fiscal module is running.



# Class Address

Address object.

## Inheritance

[object](#)

Address

[Partner](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Address
```

## Properties

### City

The city of the address.

#### Declaration

```
[Required]  
public string City { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Community

The community of the address.

#### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public string Community { get; set; }
```

#### Property Value

### Type Description

[string](#)

## Remarks

In several countries (for instance Slovenia) you have to add the community to the address.

### CountryCode

Countrycode according ISO 3166 alpha-3

#### Declaration

```
[Required]
public string CountryCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### FullStreet

returns the combination of street and street number

#### Declaration

```
[JsonIgnore]
public string FullStreet { get; }
```

#### Property Value

#### Type Description

[string](#)

#### PostalCode

The postal code of the address.

#### Declaration

```
[Required]
public string PostalCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Street

The street (without street number).

#### Declaration

```
[Required]
public string Street { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### StreetNumber

The street number (without street name).

#### Declaration

```
[Required]
public string StreetNumber { get; set; }
```

#### Property Value

## Type Description

[string](#)

## Methods

### FromAddress(Address)

#### Declaration

```
public static Address FromAddress(Address objectInheritsAddress)
```

#### Parameters

Type	Name	Description
<a href="#">Address</a>	objectInheritsAddress	

#### Returns

Type	Description
<a href="#">Address</a>	

# Class **CachedConfigurationProviderBase**

Abstract configuration provider to load the configuration into cache memory for the fiscal system.

## Inheritance

[object](#)

[ConfigurationProviderBase](#)

[CachedConfigurationProviderBase](#)

[JsonConfigurationProviderBase](#)

## Inherited Members

[ConfigurationProviderBase.EncryptionSalt](#)

[ConfigurationProviderBase.DecryptString\(Guid, string\)](#)

[ConfigurationProviderBase.EncryptString\(Guid, string\)](#)

[ConfigurationProviderBase.LoadConfiguration\(\)](#)

[ConfigurationProviderBase.StoreConfiguration\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class CachedConfigurationProviderBase : ConfigurationProviderBase
```

## Fields

### Clients

The list of all clients stored at this provider.

### Declaration

```
protected Dictionary<Guid, FiscalClient> Clients
```

### Field Value

Type	Description
<a href="#">Dictionary&lt;Guid, FiscalClient&gt;</a>	

## Methods

### ClientExists(CompanyIdentification, string, string)

Returns whether the given client exists in the client dictionary.

### Declaration

```
public override bool ClientExists(CompanyIdentification companyIdentification, string storeNumber, string terminalNumber)
```

### Parameters

Type	Name	Description
<a href="#">CompanyIdentification</a>	companyIdentification	
<a href="#">string</a>	storeNumber	
<a href="#">string</a>	terminalNumber	

### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[bool](#) True if the given client exists; otherwise false.

#### Overrides

[ConfigurationProviderBase.ClientExists\(CompanyIdentification, string, string\)](#)

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if the parameter `companyIdentification` is set to null.

[ArgumentNullException](#) Thrown if the parameter `storeNumber` is set to null or `string.Empty`.

[ArgumentNullException](#) Thrown if the parameter `terminalNumber` is set to null or `string.Empty`.

### ClientExists(Guid)

Returns whether the given client exists in the client dictionary.

#### Declaration

```
public override bool ClientExists(Guid clientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) `clientId` The client id to search.

#### Returns

Type	Description
------	-------------

[bool](#) True if the given client exists; otherwise false.

#### Overrides

[ConfigurationProviderBase.ClientExists\(Guid\)](#)

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `clientId` is set to [Empty](#).

### ClientExists(Guid, string, string)

Returns whether the given client exists in the client dictionary.

#### Declaration

```
public override bool ClientExists(Guid licenseConsumerId, string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) `licenseConsumerId`

[string](#) `storeNumber`

[string](#) `terminalNumber`

## Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the given client exists; otherwise false.
----------------------	---

## Overrides

[ConfigurationProviderBase.ClientExists\(Guid, string, string\)](#)

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>licenseConsumerId</code> is set to <a href="#">Empty</a> .
---------------------------------------	--

<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>storeNumber</code> is set to null or <code>string.Empty</code> .
---------------------------------------	--

<a href="#">ArgumentNullException</a>	Thrown if the parameter <code>terminalNumber</code> is set to null or <code>string.Empty</code> .
---------------------------------------	---

## CreateClient(FiscalClient)

Creates a new client and stores it to the store.

### Declaration

```
public override void CreateClient(FiscalClient client)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	<code>client</code>	The new client.
------------------------------	---------------------	-----------------

## Overrides

[ConfigurationProviderBase.CreateClient\(FiscalClient\)](#)

## DeleteClient(Guid)

This method deletes the client from the configuration (and stores the configuration to disk).

### Declaration

```
public override void DeleteClient(Guid clientId)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	<code>clientId</code>	The id of the client to delete.
----------------------	-----------------------	---------------------------------

## Overrides

[ConfigurationProviderBase.DeleteClient\(Guid\)](#)

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
---------------------------------------	---

Type	Condition
------	-----------

[KeyNotFoundException](#) Thrown if given client was not found in the configuration.

### GetClientConfiguration(Guid)

Returns the client configuration for the requested id.

#### Declaration

```
public override FiscalClient GetClientConfiguration(Guid clientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The id ( <a href="#">Guid</a> ) of the requested client configuration.
----------------------	----------	--

#### Returns

Type	Description
------	-------------

<a href="#">FiscalClient</a>	The client configuration for the requested id.
------------------------------	--

#### Overrides

[ConfigurationProviderBase.GetClientConfiguration\(Guid\)](#)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if the client with the given parameter <code>clientId</code> does not exist.
---	---

### GetClients()

Gets a list of all available clients stored at the system.

#### Declaration

```
public override Guid[] GetClients()
```

#### Returns

Type	Description
------	-------------

<a href="#">Guid[]</a>	A list of all available unique client id's.
------------------------	---

#### Overrides

[ConfigurationProviderBase.GetClients\(\)](#)

### GetFiscalClients()

Gets a list of all available clients stored at the system.

#### Declaration

```
public override FiscalClient[] GetFiscalClients()
```

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[FiscalClient\[\]](#) A list of all available unique client id's.

#### Overrides

[ConfigurationProviderBase.GetFiscalClients\(\)](#)

#### TryGetClientConfiguration(Guid, out FiscalClient)

Tries to return the client configuration (return value = true); otherwise false.

#### Declaration

```
public override bool TryGetClientConfiguration(Guid clientId, out FiscalClient fiscalClient)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id ( <a href="#">Guid</a> ) of the requested client configuration.

[FiscalClient](#) fiscalClient The client configuration for the requested id (if found).

#### Returns

Type	Description
<a href="#">bool</a>	True if the client configuration was found; otherwise false.

#### Overrides

[ConfigurationProviderBase.TryGetClientConfiguration\(Guid, out FiscalClient\)](#)

#### UpdateClient(FiscalClient)

Updates a client in the list fo clients stored as the system.

#### Declaration

```
public override void UpdateClient(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The client to update.

#### Overrides

[ConfigurationProviderBase.UpdateClient\(FiscalClient\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>client</code> is set to null.

[KeyNotFoundException](#) Thrown if client is not found in the store to update.



# Class CashRegister

A single cash Register

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

CashRegister

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegister : ConfigurationValidationBase
```

## Properties

### Brand

The manufacturer of the hardware cashregister.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Brand { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CurrencyIsoCode

The currency iso code of the base currency according to ISO 4217.

#### Declaration

```
[Required]  
public string CurrencyIsoCode { get; set; }
```

#### Property Value

### Type Description

## Type Description

[string](#)

### Remarks

All amounts stored in the document are based to this currency code (except special marked foreign amounts).

## Id

The id of the cash register

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Id { get; set; }
```

### Property Value

## Type Description

[string](#)

## Modelname

The model name of the hardware cashregister.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Modelname { get; set; }
```

### Property Value

## Type Description

[string](#)

## SerialNumber

The serial number of the cash register.

### Declaration

```
[Obsolete("This field will be automatically taken from store number/terminal number and is no longer in usage.")]  
public string SerialNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

### Remarks

This field will be automatically taken from store number/terminal number and is no longer in usage.

## Software

The used cashregister software and it's version.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Software Software { get; set; }
```

### Property Value

**Type Description**

Software

# Class ClientConfigurationJsonConverter

Json Converter to read client configuration

## Inheritance

[object](#)

JsonConverter

ClientConfigurationJsonConverter

## Inherited Members

JsonConverter.CanRead

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfigurationJsonConverter : JsonConverter
```

## Properties

### CanWrite

Gets a value indicating whether this Newtonsoft.Json.JsonConverter can write JSON.

#### Declaration

```
public override bool CanWrite { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	true if this Newtonsoft.Json.JsonConverter can write JSON; otherwise, false.
----------------------	--

#### Overrides

Newtonsoft.Json.JsonConverter.CanWrite

## Methods

### CanConvert(Type)

Determines whether this instance can convert the specified object type.

#### Declaration

```
public override bool CanConvert(Type objectType)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Type</a>	objectType	Type of the object.
----------------------	------------	---------------------

#### Returns

Type	Description
------	-------------

[bool](#) true if this instance can convert the specified object type; otherwise, false.

#### Overrides

[JsonConverter.CanConvert\(Type\)](#)

#### ReadJson(JsonReader, Type, object, JsonSerializer)

Reads the JSON representation of the object.

#### Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonReader	reader	The Newtonsoft.Json.JsonReader to read from.
<a href="#">Type</a>	objectType	Type of the object.
<a href="#">object</a>	existingValue	The existing value of object being read.
JsonSerializer	serializer	The calling serializer.

#### Returns

Type	Description
------	-------------

[object](#) The object value.

#### Overrides

[JsonConverter.ReadJson\(JsonReader, Type, object, JsonSerializer\)](#)

#### WriteJson(JsonWriter, object, JsonSerializer)

Writes the JSON representation of the object.

#### Declaration

```
public override void WriteJson(JsonWriter writer, object value, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonWriter	writer	The Newtonsoft.Json.JsonWriter to write to.
<a href="#">object</a>	value	The value.
JsonSerializer	serializer	The calling serializer.

#### Overrides

[JsonConverter.WriteJson\(JsonWriter, object, JsonSerializer\)](#)

# Class CompanyIdentification

Represents a company identification number (vat number, tax number, ...)

## Inheritance

[object](#)

CompanyIdentification

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CompanyIdentification
```

## Properties

### Identification

The identification according to the type.

#### Declaration

```
public string Identification { get; set; }
```

#### Property Value

### Type Description

[string](#)

### NotUniqueTypes

Returns a list of identification types which can be used more than once.

#### Declaration

```
public static List<CompanyIdentification.IdentificationType> NotUniqueTypes { get; }
```

#### Property Value

#### Type

#### Description

[List<CompanyIdentification.IdentificationType>](#)

### Type

The type of the identification.

#### Declaration

```
public virtual CompanyIdentification.IdentificationType Type { get; set; }
```

#### Property Value

**Type**

**Description**

CompanyIdentification.IdentificationType

# Enum CompanyIdentification.IdentificationType

The supported identification types.

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum CompanyIdentification.IdentificationType
```

## Fields

Name	Description
BusinessIdentificationNumber	Germany: Wirtschaftsidentifikationsnummer, France: Siren, Denmark: Danish CVR-number
CommercialRegisterNumber	Austria: Firmenbuchnummer, Germany: Handelsregisternummer, France: Registre du commerce et des sociétés
CommercialRegisterNumberOffice	Austria: Firmenbuchgericht, Germany: Handelsgericht, France: Registry office
GlnNumber	
StatisticalClassification	Austria: ÖNACE, France: Nomenclature d'activités française (NafCode)
TaxNumber	Austria: Steuernummer, Spain: NIF
TradeRegisterNumber	Austria: Gewerberegisternummer, France: Numéro d'inscription au répertoire des métiers
VatNumber	UID Number



# Class ConfigurationProviderBase

Abstract configuration provider to load the configuration for the fiscal system.

## Inheritance

[object](#)

[ConfigurationProviderBase](#)

[CachedConfigurationProviderBase](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class ConfigurationProviderBase
```

## Fields

### EncryptionSalt

#### Declaration

```
public const string EncryptionSalt = "RetailForce_2021!"
```

#### Field Value

### Type Description

[string](#)

## Methods

### ClientExists(CompanyIdentification, string, string)

Returns whether the given client exists in the client dictionary.

#### Declaration

```
public abstract bool ClientExists(CompanyIdentification companyIdentification, string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
<a href="#">CompanyIdentification</a>	companyIdentification	
<a href="#">string</a>	storeNumber	
<a href="#">string</a>	terminalNumber	

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the given client exists; otherwise false.
----------------------	---

#### Exceptions

Type	Condition
------	-----------

**Type****Condition**

[ArgumentNullException](#) Thrown if the parameter `companyIdentification` is set to null.

[ArgumentNullException](#) Thrown if the parameter `storeNumber` is set to null or string.Empty.

[ArgumentNullException](#) Thrown if the parameter `terminalNumber` is set to null or string.Empty.

**ClientExists(Guid)**

Returns whether the given client exists in the client dictionary.

**Declaration**

```
public abstract bool ClientExists(Guid clientId)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client id to search.
----------------------	----------	--------------------------

**Returns**

Type	Description
------	-------------

<a href="#">bool</a>	True if the given client exists; otherwise false.
----------------------	---

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `clientId` is set to [Empty](#).

**ClientExists(Guid, string, string)**

Returns whether the given client exists in the client dictionary.

**Declaration**

```
public abstract bool ClientExists(Guid licenseConsumerId, string storeNumber, string terminalNumber)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	licenseConsumerId	
----------------------	-------------------	--

<a href="#">string</a>	storeNumber	
------------------------	-------------	--

<a href="#">string</a>	terminalNumber	
------------------------	----------------	--

**Returns**

Type	Description
------	-------------

<a href="#">bool</a>	True if the given client exists; otherwise false.
----------------------	---

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if the parameter `licenseConsumerId` is set to [Empty](#).

**Type****Condition**

[ArgumentNullException](#) Thrown if the parameter `storeNumber` is set to null or `string.Empty`.

[ArgumentNullException](#) Thrown if the parameter `terminalNumber` is set to null or `string.Empty`.

**CreateClient(FiscalClient)**

Creates a new client and stores it to the store.

**Declaration**

```
public abstract void CreateClient(FiscalClient client)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	The new client.
------------------------------	--------	-----------------

**DecryptString(Guid, string)**

Decrypts a string of the fiscal client configuration.

**Declaration**

```
public static string DecryptString(Guid uniqueClientId, string stringToDecrypt)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique client id of the fiscal client of the configuration.
----------------------	----------------	---

<a href="#">string</a>	stringToDecrypt	The string to decrypt.
------------------------	-----------------	------------------------

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	The decrypted string.
------------------------	-----------------------

**DeleteClient(Guid)**

This method deletes the client from the configuration (and stores the configuration to disk).

**Declaration**

```
public abstract void DeleteClient(Guid clientId)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The id of the client to delete.
----------------------	----------	---------------------------------

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `clientId` is set to [Empty](#).

**Type****Condition**

[KeyNotFoundException](#) Thrown if given client was not found in the configuration.

**EncryptString(Guid, string)**

Encrypts a string of the fiscal client configuration.

**Declaration**

```
public static string EncryptString(Guid uniqueClientId, string stringToEncrypt)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique client id of the fiscal client of the configuration.
----------------------	----------------	---

<a href="#">string</a>	stringToEncrypt	The string to encrypt.
------------------------	-----------------	------------------------

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	The encrypted string.
------------------------	-----------------------

**GetClientConfiguration(Guid)**

Returns the client configuration for the requested id.

**Declaration**

```
public abstract FiscalClient GetClientConfiguration(Guid clientId)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The id ( <a href="#">Guid</a> ) of the requested client configuration.
----------------------	----------	--

**Returns**

Type	Description
------	-------------

<a href="#">FiscalClient</a>	The client configuration for the requested id.
------------------------------	--

**Exceptions****Type****Condition**

<a href="#">ArgumentOutOfRangeException</a>	Thrown if the client with the given parameter <code>clientId</code> does not exist.
---	---

**GetClients()**

Gets a list of all available clients stored at the system.

**Declaration**

```
public abstract Guid[] GetClients()
```

**Returns**

Type	Description
------	-------------

Type	Description
------	-------------

[Guid](#)[] A list of all available unique client id's.

### GetFiscalClients()

Gets a list of all available clients stored at the system.

#### Declaration

```
public abstract FiscalClient[] GetFiscalClients()
```

#### Returns

Type	Description
------	-------------

[FiscalClient](#)[] A list of all available unique client id's.

### LoadConfiguration()

Loads the configuration into memory from the appropriate store.

#### Declaration

```
public abstract void LoadConfiguration()
```

### StoreConfiguration()

Stores the configuration from memory into the appropriate store.

#### Declaration

```
public abstract void StoreConfiguration()
```

### TryGetClientConfiguration(Guid, out FiscalClient)

Tries to return the client configuration (return value = true); otherwise false.

#### Declaration

```
public abstract bool TryGetClientConfiguration(Guid clientId, out FiscalClient fiscalClient)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) clientId The id ([Guid](#)) of the requested client configuration.

[FiscalClient](#) fiscalClient The client configuration for the requested id (if found).

#### Returns

Type	Description
------	-------------

[bool](#) True if the client configuration was found; otherwise false.

### UpdateClient(FiscalClient)

Updates a client in the list of clients stored as the system.

#### Declaration

```
public abstract void UpdateClient(FiscalClient client)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	The client to update.
------------------------------	--------	-----------------------

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>client</code> is set to null.
---------------------------------------	---

<a href="#">KeyNotFoundException</a>	Thrown if client is not found in the store to update.
--------------------------------------	---

# Class ConfigurationValidationBase

Base class for all configuration objects with validation.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[CashRegister](#)

[FiscalClient](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[TaxonomyStoreConfiguration](#)

[TseConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

## Inherited Members

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties.Abstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class ConfigurationValidationBase : ValidationPropertyBase<ValidationError>
```

## Properties

### VALIDATION\_ERROR\_SOURCE

The correct validation error source for "ConfigurationValidation"

#### Declaration

```
protected override string VALIDATION_ERROR_SOURCE { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[RetailForce.Common.Validation.ValidationBase<RetailForce.Common.Validation.ValidationError>.VALIDATION\\_ERROR\\_SOURCE](#)

## Methods

### AddPropertyError(ErrorLevel, string, string, string)

Adds a property attribute error with to correct implementation of ValidationErrorType.

#### Declaration

```
protected override ValidationError AddPropertyError(ErrorLevel level, string declaringTypeName, string propertyName, string errorString)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
ErrorLevel	level	The level of the property error.
<a href="#">string</a>	declaringTypeName	The name of the declaring type of the property with the validation error.
<a href="#">string</a>	propertyName	The name of the property with the validation error.
<a href="#">string</a>	errorString	The error description of the property error.

#### Returns

Type	Description
ValidationError	The created RetailForce.Common.Validation.ValidationError.

#### Overrides

[ValidationPropertyBase<ValidationError>.AddPropertyError\(ErrorLevel, string, string, string\)](#)

#### ValidateCountrySpecificProperty<CountryRequiredAttributeType>()

##### Declaration

```
public List<ValidationError> ValidateCountrySpecificProperty<CountryRequiredAttributeType>() where CountryRequiredAttributeType : RequiredAttribute
```

##### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

##### Type Parameters

Name	Description
CountryRequiredAttributeType	

#### ValidateElement()

Validates the element with element specific validation and returns a list of validation errors.

##### Declaration

```
protected override List<ValidationError> ValidateElement()
```

##### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects.

#### Overrides

RetailForce.Common.Validation.ValidationBase<RetailForce.Common.Validation.ValidationError>.ValidateElement()



# Class EntityParameterInfo

Class for necessary entity parameter in fiscal country properties

## Inheritance

[object](#)

[ParameterInfo](#)

EntityParameterInfo

## Inherited Members

[ParameterInfo.Name](#)

[ParameterInfo.Caption](#)

[ParameterInfo.Description](#)

[ParameterInfo.RegexValidation](#)

[ParameterInfo.Required](#)

[ParameterInfo.Encrypted](#)

[ParameterInfo.ClientEncrypted](#)

[ParameterInfo.PortalHidden](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class EntityParameterInfo : ParameterInfo
```

## Properties

### EntityType

#### Declaration

```
public string EntityType { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class FileConfigurationProvider

Configuration provider with file access (one file for all clients).

## Inheritance

[object](#)  
[ConfigurationProviderBase](#)  
[CachedConfigurationProviderBase](#)  
[JsonConfigurationProviderBase](#)  
[FileConfigurationProvider](#)

## Inherited Members

[JsonConfigurationProviderBase.GetJsonConfiguration\(\)](#)  
[JsonConfigurationProviderBase.GetFiscalClients\(string\)](#)  
[CachedConfigurationProviderBase.Clients](#)  
[CachedConfigurationProviderBase.CreateClient\(FiscalClient\)](#)  
[CachedConfigurationProviderBase.GetClients\(\)](#)  
[CachedConfigurationProviderBase.GetFiscalClients\(\)](#)  
[CachedConfigurationProviderBase.UpdateClient\(FiscalClient\)](#)  
[CachedConfigurationProviderBase.DeleteClient\(Guid\)](#)  
[CachedConfigurationProviderBase.GetClientConfiguration\(Guid\)](#)  
[CachedConfigurationProviderBase.TryGetClientConfiguration\(Guid, out FiscalClient\)](#)  
[CachedConfigurationProviderBase.ClientExists\(Guid\)](#)  
[CachedConfigurationProviderBase.ClientExists\(CompanyIdentification, string, string\)](#)  
[CachedConfigurationProviderBase.ClientExists\(Guid, string, string\)](#)  
[ConfigurationProviderBase.EncryptionSalt](#)  
[ConfigurationProviderBase.DecryptString\(Guid, string\)](#)  
[ConfigurationProviderBase.EncryptString\(Guid, string\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FileConfigurationProvider : JsonConfigurationProviderBase
```

## Constructors

### FileConfigurationProvider(string, ILogger)

Constructor.

#### Declaration

```
public FileConfigurationProvider(string configurationFile, ILogger logger)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	configurationFile	The path to the configuration file. If no configuration file is found a new one is created.
<a href="#">ILogger</a>	logger	The logger to log checksum errors.

## Exceptions

Type	Condition
<a href="#">DirectoryNotFoundException</a>	Thrown if the path of the given <code>configurationFile</code> is not found.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>configurationFile</code> is set to null or empty string.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>logger</code> is set to null.

## Methods

### LoadConfiguration()

Loads the configuration into memory from the appropriate store.

#### Declaration

```
public override void LoadConfiguration()
```

#### Overrides

[ConfigurationProviderBase.LoadConfiguration\(\)](#)

### StoreConfiguration()

Stores the configuration from memory into the appropriate store.

#### Declaration

```
public override void StoreConfiguration()
```

#### Overrides

[ConfigurationProviderBase.StoreConfiguration\(\)](#)

### ValidateChecksum()

Validates configuration file with checksum file.

#### Declaration

```
public bool ValidateChecksum()
```

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if validation was successful and file was not changed; otherwise false.
----------------------	--

# Class FiscalClient

Represents a single fiscal client (representation of a cash register)

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

FiscalClient

## Implements

[IEquatable<FiscalClient>](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiscalClient : ConfigurationValidationBase, IEquatable<FiscalClient>
```

## Properties

### Capital

The social capital of the company.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public decimal? Capital { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

### CashRegister

Information about the cash register.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public CashRegister CashRegister { get; set; }
```

#### Property Value

**Type Description**

[CashRegister](#)

**CompanyAddress**

The address of the company (not the address of the store, except they are the same).

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Address CompanyAddress { get; set; }
```

**Property Value****Type Description**

[Address](#)

**CompanyIdentification**

The company identification.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public CompanyIdentification[] CompanyIdentification { get; set; }
```

**Property Value****Type Description**

[CompanyIdentification\[\]](#)

**Remarks**

For germany at least taxnumber and vatnumber must be set.

**CompanyName**

The name of the company.

**Declaration**

```
[Required]  
public string CompanyName { get; set; }
```

**Property Value****Type Description**

[string](#)

**Remarks**

It is necessary that this is the correct name according to country specific law.

**CompanyNumber**

The number of an applicable company (for instance brand) of the client.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string CompanyNumber { get; set; }
```

**Property Value**

## Type Description

[string](#)

## CompanyParameter

Additional parameters for the company.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<Parameter> CompanyParameter { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;Parameter&gt;</a>	

## CompanyTaxNumber

The tax number of the company

### Declaration

```
public string CompanyTaxNumber { get; }
```

### Property Value

## Type Description

[string](#)

## CompanyVatNumber

The vat number of the company

### Declaration

```
public string CompanyVatNumber { get; }
```

### Property Value

## Type Description

[string](#)

## DigitalReceipt

Configuration object for digital receipt branding.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DigitalReceipt DigitalReceipt { get; set; }
```

### Property Value

Type	Description
<a href="#">DigitalReceipt</a>	

## DistributorId

The distributor id for the license for the fiscal client.

### Declaration

```
public Guid DistributerId { get; set; }
```

#### Property Value

#### Type Description

[Guid](#)

#### DistributorParameter

Additional parameters for the distributor.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<Parameter> DistributorParameter { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<Parameter>](#)

#### FiscalCountry

The fiscal country for the fiscal implementation.

#### Declaration

```
[Required]  
public FiscalCountry FiscalCountry { get; set; }
```

#### Property Value

Type	Description
------	-------------

[FiscalCountry](#)

#### Remarks

Possible values at the moment are:

- Germany

#### FiscalModulImplementationConfiguration

The configuration for the country specific implementation.

#### Declaration

```
[Required]  
[JsonConverter(typeof(ClientConfigurationJsonConverter))]  
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public IFiscalImplementationConfiguration FiscalModulImplementationConfiguration { get; set; }
```

#### Property Value

Type	Description
------	-------------

[IFiscalImplementationConfiguration](#)

#### FiscalRegion

If necessary the fiscal region for the country (eg. Spain or Canada).

#### Declaration

```
public string FiscalRegion { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**FiscalYearStartMonth**

The month of the start of the fiscal year.

**Declaration**

```
public int FiscalYearStartMonth { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**GlobalShortId**

Represents a 4 digit (alphanumeric, case-sensitive) value representing a global unique short id for the terminal.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string GlobalShortId { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**LegalForm**

The legal form of the company.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string LegalForm { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**LicenseConsumerId**

The licence consumer (buyer) of the license for this fiscal client.

**Declaration**

```
public Guid LicenseConsumerId { get; set; }
```

**Property Value**

**Type Description**

[Guid](#)

**LicenseKey**

The license key (jwt) for the client.



**Declaration**

```
public string LicenseKey { get; set; }
```

**Property Value****Type Description**

[string](#)

**SimpleCashPointClosing**

True if the fiscal module supports simple cashpoint closing (end of day); Otherwise false.

**Declaration**

```
public bool SimpleCashPointClosing { get; set; }
```

**Property Value****Type Description**

[bool](#)

**Remarks**

In this case calculation of payments during a day will be done.

**StoreAddress**

The address of the store where the cash register resides.

**Declaration**

```
public Address StoreAddress { get; set; }
```

**Property Value****Type Description**

[Address](#)

**StoreName**

The name of the store.

**Declaration**

```
public string StoreName { get; set; }
```

**Property Value****Type Description**

[string](#)

**StoreNumber**

The identification (number or string) of the store.

**Declaration**

```
[Required]  
public string StoreNumber { get; set; }
```

**Property Value**

## Type Description

[string](#)

## StoreOpeningDate

The opening date of the store.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DateTime? StoreOpeningDate { get; set; }
```

### Property Value

#### Type Description

[DateTime?](#)

## StoreParameter

Additional parameters for the store.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<Parameter> StoreParameter { get; set; }
```

### Property Value

#### Type Description

[List<Parameter>](#)

## TerminalNumber

The terminal number of the cash register (if there are more than one terminal at one store).

### Declaration

```
[Required]  
public string TerminalNumber { get; set; }
```

### Property Value

#### Type Description

[string](#)

## TerminalParameter

Additional parameters for terminal.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<Parameter> TerminalParameter { get; set; }
```

### Property Value

#### Type Description

[List<Parameter>](#)

## TestClient

True if this client is a test client; otherwise false.

### Declaration

```
public bool TestClient { get; set; }
```

### Property Value

### Type Description

[bool](#)

### UniqueClientId

Represents the unique client id of the fiscal client.

### Declaration

```
[Required]  
public Guid UniqueClientId { get; set; }
```

### Property Value

### Type Description

[Guid](#)

### UsedVersion

Returns the sw-version which is actually used by the client.

### Declaration

```
public string UsedVersion { get; set; }
```

### Property Value

### Type Description

[string](#)

## Methods

### Encrypt()

Encrypts sensitive data on the client.

### Declaration

```
public void Encrypt()
```

### Equals(FiscalClient)

Returns whether the given object equals the current object or not.

### Declaration

```
public bool Equals(FiscalClient other)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	other	The object to compare.
------------------------------	-------	------------------------

### Returns

Type	Description
------	-------------

[bool](#) True if the given [FiscalClient](#) has the same [UniqueClientId](#) than the current object.

### GetParameter(string, string)

Get parameter from client with inheritance.

#### Declaration

```
public string GetParameter(string parameterName, string defaultValue = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) parameterName The name of the parameter.

[string](#) defaultValue The default value if not found. Optional.

#### Returns

Type	Description
------	-------------

[string](#) The parameter value.

#### Remarks

Inheritance path: Distributor -> Company -> Store -> Terminal

### GetStoreParameter(string, string)

Returns the requested store parameter.

#### Declaration

```
public string GetStoreParameter(string parameterName, string defaultValue = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) parameterName The name of the requested parameter.

[string](#) defaultValue The default value if the parameter is not found. Can be null.

#### Returns

Type	Description
------	-------------

[string](#) The value of the requested parameter.

### GetTerminalParameter(string, string)

Returns the requested terminal parameter.

#### Declaration

```
public string GetTerminalParameter(string parameterName, string defaultValue = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	parameterName	The name of the requested parameter.
------------------------	---------------	--------------------------------------

<a href="#">string</a>	defaultValue	The default value if the parameter is not found. Can be null.
------------------------	--------------	---

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The value of the requested parameter.
------------------------	---------------------------------------

#### ToString()

Returns the client as string representation.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

#### Overrides

[object.ToString\(\)](#)

#### Validate(bool)

Validates the fiscal client and returns a list of RetailForce.Common.Validation.ValidationError objects.

#### Declaration

```
public override List<ValidationError> Validate(bool recursive = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">bool</a>	recursive	True if sub objects should also be checked; otherwise false.
----------------------	-----------	--

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects.
---	--

#### Overrides

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

#### Remarks

Validates also country specific validation (internal call to [ValidateClient\(FiscalClient\)](#)).

### **ValidateElement()**

Validates the element with element specific validation and returns a list of validation errors.

#### **Declaration**

```
protected override List<ValidationError> ValidateElement()
```

#### **Returns**

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects.
---	--

#### **Overrides**

[ConfigurationValidationBase.ValidateElement\(\)](#)

#### **Implements**

[IEquatable<T>](#)

# Enum FiscalCountry

Supported countries.

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum FiscalCountry
```

## Remarks

Please add mapping to [FiscalCountryMapper](#) if a new country is added.

## Fields

Name	Description
Austria	
Bulgaria	
Croatia	
Denmark	
France	
Germany	
Hungary	
Italy	
Lithuania	
NoFiscalisation	
Poland	
Romania	
Serbia	
Slovenia	
Spain	
Sweden	

## Extension Methods

[FiscalCountryExtension.In\(FiscalCountry, params FiscalCountry\[\]\)](#)

# Class FiscalCountryExtension

## Inheritance

[object](#)

FiscalCountryExtension

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalCountryExtension
```

## Methods

**In(FiscalCountry, params FiscalCountry[])**

### Declaration

```
public static bool In(this FiscalCountry fiscalCountry, params FiscalCountry[] parameters)
```

### Parameters

Type	Name	Description
<a href="#">FiscalCountry</a>	fiscalCountry	
<a href="#">FiscalCountry[]</a>	parameters	

### Returns

### Type Description

[bool](#)



# Enum FiscalModuleEnvironment

Represents the environment where the fiscal module is running.

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum FiscalModuleEnvironment
```

## Fields

Name	Description
------	-------------

Cloud	Client is running in cloud environment.
-------	---

Local	Client is running is local installed or integrated (nuget) mode.
-------	--

# Interface IFiscalImplementationConfiguration

Basic interface for client configuration according to the correct country.

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(ClientConfigurationJsonConverter))]  
public interface IFiscalImplementationConfiguration
```

## Properties

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
FiscalCountry FiscalCountry { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

#### Declaration

```
void Encrypt(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

#### Declaration

```
void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

## Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

## Exceptions

**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `oldConfiguration` is set to null.

**RemoveSensitiveData()**

Removes sensitive data from the configuration.

**Declaration**

```
void RemoveSensitiveData()
```

**Remarks**

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

# Class JsonConfiguration

The Json configuration class for the list of clients.

## Inheritance

[object](#)

JsonConfiguration

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JsonConfiguration
```

## Constructors

### JsonConfiguration(List<FiscalClient>)

Constructor.

### Declaration

```
public JsonConfiguration(List<FiscalClient> clients)
```

### Parameters

Type	Name	Description
<a href="#">List&lt;FiscalClient&gt;</a>	clients	

## Properties

### FiscalClients

The list of fiscal clients.

### Declaration

```
public List<FiscalClient> FiscalClients { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;FiscalClient&gt;</a>	

# Class JsonConfigurationProviderBase

Base class to read configuration from json string.

## Inheritance

[object](#)

[ConfigurationProviderBase](#)

[CachedConfigurationProviderBase](#)

JsonConfigurationProviderBase

[FileConfigurationProvider](#)

## Inherited Members

[CachedConfigurationProviderBase.Clients](#)

[CachedConfigurationProviderBase.CreateClient\(FiscalClient\)](#)

[CachedConfigurationProviderBase.GetClients\(\)](#)

[CachedConfigurationProviderBase.GetFiscalClients\(\)](#)

[CachedConfigurationProviderBase.UpdateClient\(FiscalClient\)](#)

[CachedConfigurationProviderBase.DeleteClient\(Guid\)](#)

[CachedConfigurationProviderBase.GetClientConfiguration\(Guid\)](#)

[CachedConfigurationProviderBase.TryGetClientConfiguration\(Guid, out FiscalClient\)](#)

[CachedConfigurationProviderBase.ClientExists\(Guid\)](#)

[CachedConfigurationProviderBase.ClientExists\(CompanyIdentification, string, string\)](#)

[CachedConfigurationProviderBase.ClientExists\(Guid, string, string\)](#)

[ConfigurationProviderBase.EncryptionSalt](#)

[ConfigurationProviderBase.DecryptString\(Guid, string\)](#)

[ConfigurationProviderBase.EncryptString\(Guid, string\)](#)

[ConfigurationProviderBase.LoadConfiguration\(\)](#)

[ConfigurationProviderBase.StoreConfiguration\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class JsonConfigurationProviderBase : CachedConfigurationProviderBase
```

## Methods

### GetFiscalClients(string)

Sets internal clients object based from the json configuration string.

#### Declaration

```
protected void GetFiscalClients(string jsonConfigurationString)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	jsonConfigurationString	
------------------------	-------------------------	--

### GetJsonConfiguration()

Returns a string containing the json configuration.

**Declaration**

```
protected string GetJsonConfiguration()
```

**Returns**

<b>Type</b>	<b>Description</b>
-------------	--------------------

<a href="#">string</a>	The json string containing the configuration for the clients.
------------------------	---

# Class Parameter

Represents a configuration parameter.

## Inheritance

[object](#)

Parameter

## Implements

[IEquatable<Parameter>](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Parameter : IEquatable<Parameter>
```

## Constructors

### Parameter()

Constructor.

### Declaration

```
public Parameter()
```

### Parameter(string, string)

Constructor.

### Declaration

```
public Parameter(string name, string value)
```

## Parameters

### Type Name Description

[string](#) name

[string](#) value

## Properties

### ParameterName

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ParameterName { get; set; }
```

### Property Value

## Type Description

[string](#)

## ParameterValue

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ParameterValue { get; set; }
```

### Property Value

## Type Description

[string](#)

## Methods

### Equals(Parameter)

Indicates whether the current object is equal to another object of the same type.

### Declaration

```
public bool Equals(Parameter other)
```

### Parameters

Type	Name	Description
<a href="#">Parameter</a>	other	An object to compare with this object.

### Returns

Type	Description
<a href="#">bool</a> <a href="#">true</a>	if the current object is equal to the <code>other</code> parameter; otherwise, <a href="#">false</a> .

## Implements

[IEquatable<T>](#)



# Class ParameterInfo

Parameter description object for parameters in configuration.

## Inheritance

[object](#)

ParameterInfo

[EntityParameterInfo](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ParameterInfo
```

## Properties

### Caption

The caption (displayed to user) of the parameter value

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Caption { get; set; }
```

### Property Value

### Type Description

[string](#)

### ClientEncrypted

True if this parameter should be encrypted on client side; otherwise false.

### Declaration

```
public bool ClientEncrypted { get; set; }
```

### Property Value

### Type Description

[bool](#)

### Description

The description of the parameter value

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
```

```
public string Description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Encrypted

True if this parameter has to be encrypted when storing to the database and true if the value should not be displayed in the ui without clicking "view" button.

#### Declaration

```
public bool Encrypted { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Name

The name of the parameter value

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### PortalHidden

True if this parameter cannot be edited in portal and should be hidden. Otherwise false.

#### Declaration

```
public bool PortalHidden { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### RegexValidation

A regex for validation of the parameter value (can be empty)

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string RegexValidation { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Required

True if this parameter is required; otherwise false

**Declaration**

```
public bool Required { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class Software

Cashregister software information.

## Inheritance

[object](#)  
Software

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Software
```

## Properties

### Brand

The name of the used cashregister software.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Brand { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SoftwareCompany

The name of the companies creating the cash register software.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string SoftwareCompany { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Version

The actual version of the used cashregister software.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Version { get; set; }
```

Property Value

Type Description

[string](#)

# Namespace RetailForce.Fiscalisation.Configuration.DigitalReceipt

## Classes

[DigitalReceipt](#)

[OfflineConfiguration](#)

# Class DigitalReceipt

## Inheritance

[object](#)  
DigitalReceipt

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration.DigitalReceipt](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DigitalReceipt
```

## Properties

### OfflineConfiguration

#### Declaration

```
public OfflineConfiguration OfflineConfiguration { get; set; }
```

#### Property Value

Type	Description
<a href="#">OfflineConfiguration</a>	

# Class OfflineConfiguration

## Inheritance

[object](#)

OfflineConfiguration

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration.DigitalReceipt](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class OfflineConfiguration
```

## Properties

### CloudBaseUrl

#### Declaration

```
public string CloudBaseUrl { get; set; }
```

#### Property Value

### Type Description

[string](#)



# Namespace RetailForce.Fiscalisation.Constants

## Classes

### [CloudStoreConstants](#)

Taxonomy cloud store constants !!! this class is only public so we can use the values in the unit test, which is not an optimal solution, but otherwise we have to adapt the unit test whenever a value changes

### [CommonConstants](#)

### [TaxonomyStoreConstants](#)

Taxonomy store constants !!! this class is only public so we can use the values in the unit test, which is not an optimal solution, but otherwise we have to adapt the unit test whenever a value changes

# Class CloudStoreConstants

Taxonomy cloud store constants !!! this class is only public so we can use the values in the unit test, which is not an optimal solution, but otherwise we have to adapt the unit test whenever a value changes

## Inheritance

[object](#)

CloudStoreConstants

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Constants](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class CloudStoreConstants
```

## Fields

### FS\_EXPORT\_FILE\_NAME\_FORMAT

#### Declaration

```
public static readonly string FS_EXPORT_FILE_NAME_FORMAT
```

#### Field Value

#### Type Description

[string](#)

### FS\_FILE\_NAME\_FORMAT

File store file name 0: UploadType (U = upload, A = append, D = Delete) 1: cashpoint closing number 2: date format (yyyyMMdd) 3: extension that defines the type (e.g. tar, zip)

#### Declaration

```
public static readonly string FS_FILE_NAME_FORMAT
```

#### Field Value

#### Type Description

[string](#)

### FS\_FUNCTIONCALL\_FILE\_NAME\_FORMAT

Function call file store name 0: UploadType (F = FunctionCall) 1: date/time (yyyyMMddhhmmssmm) 2: filler

#### Declaration

```
public static readonly string FS_FUNCTIONCALL_FILE_NAME_FORMAT
```

#### Field Value

## Type Description

[string](#)

### FS\_REFERENCE\_ZIP\_FILE\_NAME

File name of the zip file with reference file

#### Declaration

```
public static readonly string FS_REFERENCE_ZIP_FILE_NAME
```

#### Field Value

## Type Description

[string](#)

### FS\_TRANSACTION\_FILE\_NAME\_FORMAT

File store file name 0: UploadType (U = upload, A = append, D = Delete) 1: cashpoint closing number 2: transaction number 3: date format (yyyyMMdd) 4: extension that defines the type (e.g. tar, zip)

#### Declaration

```
public static readonly string FS_TRANSACTION_FILE_NAME_FORMAT
```

#### Field Value

## Type Description

[string](#)

### FS\_UPLOADDIGITALRECEIPT\_FILE\_NAME\_FORMAT

Upload digital file file store name (for pdf and data) 0: UploadType (R = DigitalReceipt) 1: date/time (yyyyMMddhhmmssnn) 2: type (D = Data, P = Pdf)

#### Declaration

```
public static readonly string FS_UPLOADDIGITALRECEIPT_FILE_NAME_FORMAT
```

#### Field Value

## Type Description

[string](#)

### FS\_UPLOADDOCUMENTSTORE\_FILE\_NAME\_FORMAT

Upload document to cosmos database. 0: UploadType (M = Cosmos database) 1: Cashpoint closing number 2: date/time (yyyyMMddhhmmssnn)

#### Declaration

```
public static readonly string FS_UPLOADDOCUMENTSTORE_FILE_NAME_FORMAT
```

#### Field Value

## Type Description

[string](#)

### FS\_UPLOADFRENCHARCHIVE\_FILE\_NAME\_FORMAT

Upload french archive 0: UploadType (Z = FrenchArchive) 1: cashpoint closing number with \_

**Declaration**

```
public static readonly string FS_UPLOADFRENCHARCHIVE_FILE_NAME_FORMAT
```

**Field Value****Type Description**

[string](#)

**Remarks**

cashpoint closing name contains \_ -> therefore only 2 parameter

**FS\_UPLOADSTORAGEDATA\_FILE\_NAME\_FORMAT**

Upload storage data 0: UploadType (S = StorageData) 1: date/time (yyyyMMddhhmmssnnn) 2: type (dep, auditlog, ...)

**Declaration**

```
public static readonly string FS_UPLOADSTORAGEDATA_FILE_NAME_FORMAT
```

**Field Value****Type Description**

[string](#)

# Class CommonConstants

## Inheritance

[object](#)

CommonConstants

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Constants](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CommonConstants
```

## Fields

### CloudMessageQueueStart

#### Declaration

```
public const string CloudMessageQueueStart = "START"
```

#### Field Value

#### Type Description

[string](#)

### CloudMessageQueueStop

#### Declaration

```
public const string CloudMessageQueueStop = "STOP"
```

#### Field Value

#### Type Description

[string](#)

### DOCUMENT\_UPLOAD\_STATE\_FILE\_NAME

#### Declaration

```
public const string DOCUMENT_UPLOAD_STATE_FILE_NAME = "LastProcessedUploadFile.txt"
```

#### Field Value

#### Type Description

[string](#)

# Class TaxonomyStoreConstants

Taxonomy store constants !!! this class is only public so we can use the values in the unit test, which is not an optimal solution, but otherwise we have to adapt the unit test whenever a value changes

## Inheritance

[object](#)

TaxonomyStoreConstants

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Constants](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class TaxonomyStoreConstants
```

## Fields

### FS\_CASHPOINTCLOSINGHEAD\_FILE\_ENTRY

Cashpoint closing head

#### Declaration

```
public const string FS_CASHPOINTCLOSINGHEAD_FILE_ENTRY = "Head.json"
```

#### Field Value

#### Type Description

[string](#)

### FS\_CASHPOINTCLOSINGSECURITY\_FILE\_ENTRY

#### Declaration

```
public const string FS_CASHPOINTCLOSINGSECURITY_FILE_ENTRY = "Security.json"
```

#### Field Value

#### Type Description

[string](#)

### FS\_CASHPOINTCLOSING\_FILE\_ENTRY

Cashpoint closing

#### Declaration

```
public const string FS_CASHPOINTCLOSING_FILE_ENTRY = "CashpointClosing.json"
```

#### Field Value

## Type Description

[string](#)

### FS\_FILE\_INITIAL\_CLOSINGNUMBER

Initial closing number (first closing number)

#### Declaration

```
public const int FS_FILE_INITIAL_CLOSINGNUMBER = 1
```

#### Field Value

## Type Description

[int](#)

### FS\_FILE\_NAME\_FORMAT\_TAR

File store file name 0: date format (yyyyMMdd) 1: cashpoint closing number

#### Declaration

```
public static readonly string FS_FILE_NAME_FORMAT_TAR
```

#### Field Value

## Type Description

[string](#)

### FS\_FILE\_NAME\_FORMAT\_ZIP

File store file name 0: date format (yyyyMMdd) 1: cashpoint closing number

#### Declaration

```
public static readonly string FS_FILE_NAME_FORMAT_ZIP
```

#### Field Value

## Type Description

[string](#)

### FS\_REFERENCE\_FILE\_NAME

File name of reference file

#### Declaration

```
public static readonly string FS_REFERENCE_FILE_NAME
```

#### Field Value

## Type Description

[string](#)

### FS\_REFERENCE\_ZIP\_FILE\_NAME

File name of the zip file with reference file

#### Declaration

```
public static readonly string FS_REFERENCE_ZIP_FILE_NAME
```

**Field Value**

**Type Description**

[string](#)

**FS\_TRANSACTION\_ENTRY\_FORMAT**

File store transaction entry name 0: transaction number

**Declaration**

```
public static readonly string FS_TRANSACTION_ENTRY_FORMAT
```

**Field Value**

**Type Description**

[string](#)



# Namespace **RetailForce.Fiscalisation.Diagnostics**

## Classes

### [FiscalModulePerformanceInfo](#)

Helper class for performance counter.

### [FiscalModuleProgressInfo](#)

Helper class for progress information.

# Class FiscalModulePerformanceInfo

Helper class for performance counter.

## Inheritance

[object](#)

FiscalModulePerformanceInfo

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Diagnostics](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalModulePerformanceInfo
```

## Methods

### GetAveragePerformanceCounter(Guid, string)

Returns the average data of the requested performance counter id.

#### Declaration

```
public static PerformanceCounter.AverageData GetAveragePerformanceCounter(Guid clientId, string performanceCounterId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id of the client where the average data is requested.
<a href="#">string</a>	performanceCounterId	The id of the performance counter is requested.

#### Returns

Type	Description
PerformanceCounter.AverageData	The average data of the requested performance counter id.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>performanceCounterId</code> is set null or <a href="#">Empty</a> .
<a href="#">KeyNotFoundException</a>	Thrown if the requested data is not found.

### GetClientPerformanceCounter(Guid, string)

Returns the performance counter id for the given client and performance counter id.

#### Declaration

```
public static string GetClientPerformanceCounter(Guid clientId, string performanceCounterId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id of the client of the requested performance counter id.
<a href="#">string</a>	performanceCounterId	The id of the performance counter of the requested performance counter id.

#### Returns

Type	Description
<a href="#">string</a>	The performance counter id for the given client and performance counter id.

#### Remarks

This method is just a helper method to use performance counter in fiscal module. Please create performance counter id's with this method to ensure all other methods to work.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>performanceCounterId</code> is set null or <a href="#">Empty</a> .

### GetPerformanceCounterIds(Guid)

Returns all performance counter id's for the given client.

#### Declaration

```
public static List<string> GetPerformanceCounterIds(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id of the client where the performance counters are requested.

#### Returns

Type	Description
<a href="#">List&lt;string&gt;</a>	A list of all performance counter id's for the given client.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

## ResetAveragePerformanceCounter(Guid, string)

Resets average data for the given client and the given performance counter.

### Declaration

```
public static void ResetAveragePerformanceCounter(Guid clientId, string performanceCounterId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id of the client where the average data should be removed.
<a href="#">string</a>	performanceCounterId	The id of the performance counter where the average data should be removed.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>performanceCounterId</code> is set null or <a href="#">Empty</a> .

## ResetAveragePerformanceCounterClient(Guid)

Resets all average data for the given client.

### Declaration

```
public static void ResetAveragePerformanceCounterClient(Guid clientId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The id of the client where the average data should be removed.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

# Class FiscalModuleProgressInfo

Helper class for progress information.

## Inheritance

[object](#)

FiscalModuleProgressInfo

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Diagnostics](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalModuleProgressInfo
```

## Methods

### GetClientProgressLabel(Guid, string)

Returns a progress information label for a client and the given label.

#### Declaration

```
public static string GetClientProgressLabel(Guid clientId, string label)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client for the generated label.
----------------------	----------	-------------------------------------

<a href="#">string</a>	label	The label itself.
------------------------	-------	-------------------

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A progress information label for a client and the given label.
------------------------	--

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>label</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	--

### GetClientProgressLabels(Guid)

Returns all progress information labels for the given client.

#### Declaration

```
public static IEnumerable<string> GetClientProgressLabels(Guid clientId)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">Guid</a> clientId	The id of the client where the progress information labels are requested.
-------------------------------	---

#### Returns

Type	Description
------	-------------

<a href="#">IEnumerable&lt;string&gt;</a>	A list of all progress information labels for the given client.
---	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
---------------------------------------	---

### GetProgress(Guid, string)

Returns the progress information for the given client and label.

#### Declaration

```
public static int GetProgress(Guid clientId, string label)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">Guid</a> clientId	The id of the client where the progress information is requested.
-------------------------------	---

<a href="#">string</a> label	The label of the requested progress information.
------------------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">int</a>	The progress information for the given client and label.
---------------------	--

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
---------------------------------------	---

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>label</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	--

# Namespace RetailForce.Fiscalisation.Entities

## Classes

### [ClosingRequiredException](#)

Exception is thrown if closing is required.

### [CloudNotConnectedException](#)

Exception is thrown if cloud connection is requested, but cloud connect was not called before.

### [DocumentErrorInformation](#)

Represents error information for a document.

### [EntityTooLargeException](#)

### [EnumMemberEnumConverter](#)

### [HelpInformation](#)

### [LicenseException](#)

Represents a license exception which is thrown if the requesting client has no license.

### [RetailForceCloudUrl](#)

### [RetailForceReceiptId](#)

RetailForce global unique receipt id.

### [ValueEntityConverter](#)

### [ZipFileExtended](#)

Zip Utils this is only public so we can use it on our unit tests (which is not 100% optimal)

# Class ClosingRequiredException

Exception is thrown if closing is required.

## Inheritance

[object](#)  
[Exception](#)  
ClosingRequiredException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClosingRequiredException : Exception, ISerializable
```

## Constructors

### ClosingRequiredException()

#### Declaration

```
public ClosingRequiredException()
```

### ClosingRequiredException(string)

#### Declaration

```
public ClosingRequiredException(string message)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	message	
------------------------	---------	--

### ClosingRequiredException(string, Exception)

#### Declaration



```
public ClosingRequiredException(string message, Exception innerException)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

#### Implements

[ISerializable](#)

# Class CloudNotConnectedException

Exception is thrown if cloud connection is requested, but cloud connect was not called before.

## Inheritance

[object](#)  
[Exception](#)  
CloudNotConnectedException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudNotConnectedException : Exception, ISerializable
```

## Constructors

### CloudNotConnectedException()

#### Declaration

```
public CloudNotConnectedException()
```

### CloudNotConnectedException(string)

#### Declaration

```
public CloudNotConnectedException(string message)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	message	
------------------------	---------	--

### CloudNotConnectedException(string, Exception)

#### Declaration

```
public CloudNotConnectedException(string message, Exception innerException)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

#### Implements

[ISerializable](#)

# Class DocumentErrorInformation

Represents error information for a document.

## Inheritance

[object](#)

DocumentErrorInformation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentErrorInformation
```

## Constructors

### DocumentErrorInformation()

Constructor.

### Declaration

```
public DocumentErrorInformation()
```

### DocumentErrorInformation(Document, List<string>)

Constructor.

### Declaration

```
public DocumentErrorInformation(Document document, List<string> errorList = null)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document containing the errors.
<a href="#">List&lt;string&gt;</a>	errorList	The list of errors of the document.

### DocumentErrorInformation(Document, params string[])

Constructor.

### Declaration

```
public DocumentErrorInformation(Document document, params string[] errorList)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document containing the errors.
--------------------------	----------	-------------------------------------

<a href="#">string[]</a>	errorList	The list of errors of the document.
--------------------------	-----------	-------------------------------------

## Properties

### Document

The document containing the errors.

#### Declaration

```
public Document Document { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Document</a>	
--------------------------	--

### ErrorList

The list of errors of the document.

#### Declaration

```
public List<string> ErrorList { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	
------------------------------------	--

# Class EntityTooLargeException

## Inheritance

[object](#)  
[Exception](#)  
EntityTooLargeException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class EntityTooLargeException : Exception, ISerializable
```

## Constructors

### EntityTooLargeException()

#### Declaration

```
public EntityTooLargeException()
```

### EntityTooLargeException(string)

#### Declaration

```
public EntityTooLargeException(string message)
```

#### Parameters

#### Type Name Description

[string](#) message

### EntityTooLargeException(string, Exception)

#### Declaration

```
public EntityTooLargeException(string message, Exception innerException)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

## Implements

[ISerializable](#)

# Class EnumMemberEnumConverter

## Inheritance

[object](#)  
[TypeConverter](#)  
[EnumConverter](#)  
EnumMemberEnumConverter

## Inherited Members

[EnumConverter.CanConvertFrom\(ITypeDescriptorContext, Type\)](#)  
[EnumConverter.CanConvertTo\(ITypeDescriptorContext, Type\)](#)  
[EnumConverter.ConvertTo\(ITypeDescriptorContext, CultureInfo, object, Type\)](#)  
[EnumConverter.GetStandardValues\(ITypeDescriptorContext\)](#)  
[EnumConverter.GetStandardValuesExclusive\(ITypeDescriptorContext\)](#)  
[EnumConverter.GetStandardValuesSupported\(ITypeDescriptorContext\)](#)  
[EnumConverter.IsValid\(ITypeDescriptorContext, object\)](#)  
[EnumConverter.Comparer](#)  
[EnumConverter.EnumType](#)  
[EnumConverter.Values](#)  
[TypeConverter.CanConvertFrom\(Type\)](#)  
[TypeConverter.CanConvertTo\(Type\)](#)  
[TypeConverter.ConvertFrom\(object\)](#)  
[TypeConverter.ConvertFromInvariantString\(ITypeDescriptorContext, string\)](#)  
[TypeConverter.ConvertFromInvariantString\(string\)](#)  
[TypeConverter.ConvertFromString\(ITypeDescriptorContext, CultureInfo, string\)](#)  
[TypeConverter.ConvertFromString\(ITypeDescriptorContext, string\)](#)  
[TypeConverter.ConvertFromString\(string\)](#)  
[TypeConverter.ConvertTo\(object, Type\)](#)  
[TypeConverter.ConvertToInvariantString\(ITypeDescriptorContext, object\)](#)  
[TypeConverter.ConvertToInvariantString\(object\)](#)  
[TypeConverter.ConvertToString\(ITypeDescriptorContext, CultureInfo, object\)](#)  
[TypeConverter.ConvertToString\(ITypeDescriptorContext, object\)](#)  
[TypeConverter.ConvertToString\(object\)](#)  
[TypeConverter.CreateInstance\(IDictionary\)](#)  
[TypeConverter.CreateInstance\(ITypeDescriptorContext, IDictionary\)](#)  
[TypeConverter.GetConvertFromException\(object\)](#)  
[TypeConverter.GetConvertToException\(object, Type\)](#)  
[TypeConverter.GetCreateInstanceSupported\(\)](#)  
[TypeConverter.GetCreateInstanceSupported\(ITypeDescriptorContext\)](#)  
[TypeConverter.GetProperties\(ITypeDescriptorContext, object\)](#)  
[TypeConverter.GetProperties\(ITypeDescriptorContext, object, Attribute\[\]\)](#)  
[TypeConverter.GetProperties\(object\)](#)  
[TypeConverter.GetPropertiesSupported\(\)](#)  
[TypeConverter.GetPropertiesSupported\(ITypeDescriptorContext\)](#)  
[TypeConverter.GetStandardValues\(\)](#)  
[TypeConverter.GetStandardValuesExclusive\(\)](#)  
[TypeConverter.GetStandardValuesSupported\(\)](#)  
[TypeConverter.IsValid\(object\)](#)  
[TypeConverter.SortProperties\(PropertyDescriptorCollection, string\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax



```
public class EnumMemberEnumConverter : EnumConverter
```

## Constructors

### EnumMemberEnumConverter(Type)

#### Declaration

```
public EnumMemberEnumConverter(Type type)
```

#### Parameters

#### Type Name Description

[Type](#) type

## Methods

### ConvertFrom(ITypeDescriptorContext?, CultureInfo?, object)

Converts the specified value object to an enumeration object.

#### Declaration

```
public override object? ConvertFrom(ITypeDescriptorContext? context, CultureInfo? culture, object value)
```

#### Parameters

Type	Name	Description
<a href="#">ITypeDescriptorContext</a>	context	An <a href="#">ITypeDescriptorContext</a> that provides a format context.
<a href="#">CultureInfo</a>	culture	An optional <a href="#">CultureInfo</a> . If not supplied, the current culture is assumed.
<a href="#">object</a>	value	The <a href="#">object</a> to convert.

#### Returns

Type	Description
------	-------------

<a href="#">object</a>	An <a href="#">object</a> that represents the converted value.
------------------------	--

#### Overrides

[EnumConverter.ConvertFrom\(ITypeDescriptorContext, CultureInfo, object\)](#)

#### Exceptions

Type	Condition
<a href="#">FormatException</a>	value is not a valid value for the target type.
<a href="#">NotSupportedException</a>	The conversion cannot be performed.

# Class HelpInformation

## Inheritance

[object](#)  
[Attribute](#)  
HelpInformation

## Inherited Members

[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[AttributeUsage(AttributeTargets.Property|AttributeTargets.Field)]  
public class HelpInformation : Attribute
```

## Constructors

**HelpInformation(string, string)**

## Declaration

```
public HelpInformation(string helpText, string helpLink = null)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	helpText	
------------------------	----------	--

<a href="#">string</a>	helpLink	
------------------------	----------	--

## Properties

### HelpLink

#### Declaration

```
public string HelpLink { get; }
```

#### Property Value

#### Type Description

[string](#)

### HelpText

#### Declaration

```
public string HelpText { get; }
```

#### Property Value

#### Type Description

[string](#)

### TypeId

When implemented in a derived class, gets a unique identifier for this [Attribute](#).

#### Declaration

```
[JsonIgnore]  
public override object TypeId { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">object</a>	An <a href="#">object</a> that is a unique identifier for the attribute.
------------------------	--

#### Overrides

[Attribute.TypeId](#)

# Class LicenseException

Represents a license exception which is thrown if the requesting client has no license.

## Inheritance

[object](#)  
[Exception](#)  
[ApplicationException](#)  
LicenseException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LicenseException : ApplicationException, ISerializable
```

## Constructors

### LicenseException(Guid, string, string)

Constructor.

## Declaration

```
public LicenseException(Guid clientId, string requestedLicenseId, string message)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client which has requested the license.
<a href="#">string</a>	requestedLicenseId	The requested access license.

Type	Name	Description
<a href="#">string</a>	message	The message of the exception.

## LicenseException(string)

Constructor.

### Declaration

```
public LicenseException(string message)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	The message of the exception.

## Properties

### ClientId

The client which has requested the license.

### Declaration

```
public Guid ClientId { get; }
```

### Property Value

#### Type Description

[Guid](#)

### RequestedLicenseId

The requested access license.

### Declaration

```
public string RequestedLicenseId { get; }
```

### Property Value

#### Type Description

[string](#)

## Implements

[ISerializable](#)

# Class RetailForceCloudUrl

## Inheritance

[object](#)

RetailForceCloudUrl

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class RetailForceCloudUrl
```

## Properties

### CloudUrl

#### Declaration

```
public static string CloudUrl { get; }
```

#### Property Value

#### Type Description

[string](#)

### PresignedFunctionUrl

#### Declaration

```
public static string PresignedFunctionUrl { get; }
```

#### Property Value

#### Type Description

[string](#)

# Class RetailForceReceiptId

RetailForce global unique receipt id.

## Inheritance

[object](#)

RetailForceReceiptId

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RetailForceReceiptId
```

## Remarks

The retailforce receipt id contains the global unique short id for the terminal and a document sequence for this terminal. This information is stored in 2 3 bytes arrays containing about 16M possible combinations.

## Constructors

### RetailForceReceiptId(string)

Constructor.

#### Declaration

```
public RetailForceReceiptId(string retailForceReceiptId)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	retailForceReceiptId	

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>retailForceReceiptId</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentException</a>	Thrown if parameter <code>retailForceReceiptId</code> does not have 6 characters.
<a href="#">FormatException</a>	Thrown if parameter <code>retailForceReceiptId</code> is not a valid base64 encoded string.

### RetailForceReceiptId(string, uint)

Constructor

#### Declaration

```
public RetailForceReceiptId(string globalShortTerminalId, uint sequenceNr)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	globalShortTerminalId	
<a href="#">uint</a>	sequenceNr	

#### RetailForceReceiptId(uint, uint)

Constructor.

#### Declaration

```
public RetailForceReceiptId(uint globalShortTerminalId, uint sequenceNr)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	globalShortTerminalId	
<a href="#">uint</a>	sequenceNr	

### Properties

#### GlobalShortTerminalId

The global unique short id of the terminal if the receipt id.

#### Declaration

```
public uint GlobalShortTerminalId { get; }
```

#### Property Value

##### Type Description

[uint](#)

#### Id

The string representation for the global unique id.

#### Declaration

```
public string Id { get; }
```

#### Property Value

##### Type Description

[string](#)

#### SequenceNr

The document sequence number of the global unique receipt id.

#### Declaration

```
public uint SequenceNr { get; }
```

#### Property Value

##### Type Description

[uint](#)



## Methods

### GetRetailForceReceiptId(uint, uint)

Converts the given terminal id and document sequence number into string representation.

#### Declaration

```
public static string GetRetailForceReceiptId(uint globalShortTerminalId, uint sequenceNr)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	globalShortTerminalId	The terminal id to convert.
<a href="#">uint</a>	sequenceNr	The document sequence number to convert.

#### Returns

Type	Description
<a href="#">string</a>	The string representation of the global unique retailforce receipt id.

### GetRetailForceReceiptValues(string)

Converts the string representation of the global unique retailforce id to terminal id and document sequence number tuple.

#### Declaration

```
public static Tuple<uint, uint> GetRetailForceReceiptValues(string retailForceReceiptId)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	retailForceReceiptId	The string representation of the global unique retailforce id to convert.

#### Returns

Type	Description
<a href="#">Tuple&lt;uint, uint&gt;</a>	A tuple representing the terminal id and document sequence number.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>retailForceReceiptId</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentException</a>	Thrown if parameter <code>retailForceReceiptId</code> does not have 6 characters.
<a href="#">FormatException</a>	Thrown if parameter <code>retailForceReceiptId</code> is not a valid base64 encoded string.

### GetStringValue(uint)

Returns a base62 representation of an unsigned integer value.

## Declaration

```
public static string GetStringValue(uint value)
```

## Parameters

Type Name	Description
-----------	-------------

<a href="#">uint</a> value	The integer value to convert.
----------------------------	-------------------------------

## Returns

Type	Description
------	-------------

<a href="#">string</a>	A string value representing the base62 representation of an unsigned integer value.
------------------------	---

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>value</code> is greater than 14776335.
---	--

## GetUnsignedIntegerValue(string)

Returns the unsigned integer value for the four digit base62 string.

## Declaration

```
public static uint GetUnsignedIntegerValue(string fourDigitId)
```

## Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a> fourDigitId	The string to convert to integer.
------------------------------------	-----------------------------------

## Returns

Type	Description
------	-------------

<a href="#">uint</a>	An unsigned integer representing the value for the four digit base62 string.
----------------------	--

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>fourDigitId</code> is null or <a href="#">Empty</a> .
---------------------------------------	---

<a href="#">ArgumentException</a>	Thrown if parameter <code>fourDigitId</code> is not 4 characters long.
-----------------------------------	--

<a href="#">ArgumentException</a>	Thrown if parameter <code>fourDigitId</code> contains invalid characters. Valid characters are a-z A-Z 0-9.
-----------------------------------	---

## ToString()

Returns a string that represents the current object.

**Declaration**

```
public override string ToString()
```

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the current object.
------------------------	--

**Overrides**

[object.ToString\(\)](#)

# Class ValueEntityConverter

## Inheritance

[object](#)

JsonConverter

ValueEntityConverter

## Inherited Members

JsonConverter.CanRead

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class ValueEntityConverter : JsonConverter
```

## Properties

### CanWrite

Gets a value indicating whether this Newtonsoft.Json.JsonConverter can write JSON.

### Declaration

```
public override bool CanWrite { get; }
```

### Property Value

#### Type

#### Description

[bool](#) true if this Newtonsoft.Json.JsonConverter can write JSON; otherwise, false.

### Overrides

Newtonsoft.Json.JsonConverter.CanWrite

## Methods

### CanConvert(Type)

Determines whether this instance can convert the specified object type.

### Declaration

```
public override bool CanConvert(Type objectType)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Type</a>	objectType	Type of the object.
----------------------	------------	---------------------

### Returns

Type	Description
------	-------------

[bool](#) true if this instance can convert the specified object type; otherwise, false.

#### Overrides

[JsonConverter.CanConvert\(Type\)](#)

#### ReadJson(JsonReader, Type, object, JsonSerializer)

Reads the JSON representation of the object.

#### Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonReader	reader	The Newtonsoft.Json.JsonReader to read from.
<a href="#">Type</a>	objectType	Type of the object.
<a href="#">object</a>	existingValue	The existing value of object being read.
JsonSerializer	serializer	The calling serializer.

#### Returns

Type	Description
------	-------------

[object](#) The object value.

#### Overrides

[JsonConverter.ReadJson\(JsonReader, Type, object, JsonSerializer\)](#)

#### WriteJson(JsonWriter, object?, JsonSerializer)

Writes the JSON representation of the object.

#### Declaration

```
public override void WriteJson(JsonWriter writer, object? value, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonWriter	writer	The Newtonsoft.Json.JsonWriter to write to.
<a href="#">object</a>	value	The value.
JsonSerializer	serializer	The calling serializer.

#### Overrides

[JsonConverter.WriteJson\(JsonWriter, object, JsonSerializer\)](#)

# Class ZipFileExtended

Zip Utils this is only public so we can use it on our unit tests (which is not 100% optimal)

## Inheritance

[object](#)

ZipFileExtended

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ZipFileExtended
```

## Methods

### AddJsonEntries(Dictionary<string, object>, JsonSerializerSettings)

Adds more objects as json to the zip file.

#### Declaration

```
public void AddJsonEntries(Dictionary<string, object> entries, JsonSerializerSettings settings = null)
```

#### Parameters

Type	Name	Description
<a href="#">Dictionary&lt;string, object&gt;</a>	entries	A
JsonSerializerSettings	settings	

### AddJsonEntries(Dictionary<string, string>)

Adds more objects (as json string) to the zip file.

#### Declaration

```
public void AddJsonEntries(Dictionary<string, string> entries)
```

#### Parameters

Type	Name	Description
<a href="#">Dictionary&lt;string, string&gt;</a>	entries	A dictionary containing the entry and the value to add to the zip file.

## Remarks

There is not check if the value is a well formatted json.

## Exceptions

**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `entries` is set to null or has no elements.

[ArgumentException](#) Thrown if one or more key values of parameter `entries` are null or [Empty](#).

**AddJsonEntry(string, string)**

Adds an object as json string to the zip file.

**Declaration**

```
public void AddJsonEntry(string entryName, string jsonString)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	<code>entryName</code>	The entry name (file name) in the zip file.
------------------------	------------------------	---

<a href="#">string</a>	<code>jsonString</code>	The object as json string.
------------------------	-------------------------	----------------------------

**Remarks**

There is not check if the value is a well formatted json.

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `entryName` is set to null or [Empty](#).

**AddJsonEntry<T>(string, T, JsonSerializerSettings)**

Adds object as json

**Declaration**

```
public void AddJsonEntry<T>(string entryName, T entry, JsonSerializerSettings settings = null)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	<code>entryName</code>	
T	<code>entry</code>	
JsonSerializerSettings	<code>settings</code>	

**Type Parameters**

Name	Description
------	-------------

T	
---	--

**Contains(string, bool)**

Check if zip contains entry

**Declaration**

```
public bool Contains(string entryName, bool ignoreCase = true)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	entryName	
------------------------	-----------	--

<a href="#">bool</a>	ignoreCase	
----------------------	------------	--

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### Create(string, ILogger)

Create new zip file

#### Declaration

```
public static ZipFileExtended Create(string file, ILogger logger)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	file	
------------------------	------	--

<a href="#">ILogger</a>	logger	
-------------------------	--------	--

#### Returns

Type	Description
------	-------------

<a href="#">ZipFileExtended</a>	
---------------------------------	--

### GetEntries()

Get Entries

#### Declaration

```
public List<string> GetEntries()
```

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	
------------------------------------	--

### GetJsonEntries<T>(List<string>, JsonSerializerSettings)

Get json entry

#### Declaration

```
public List<T> GetJsonEntries<T>(List<string> entryNames, JsonSerializerSettings settings = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">List&lt;string&gt;</a>	entryNames	
------------------------------------	------------	--

JsonSerializerSettings	settings	
------------------------	----------	--

#### Returns



## Type Description

[List](#)<T>

### Type Parameters

## Name Description

T

## GetJsonEntry<T>(string, JsonSerializerSettings)

Get json entry

### Declaration

```
public T GetJsonEntry<T>(string entryName, JsonSerializerSettings settings = null)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	entryName	
<a href="#">JsonSerializerSettings</a>	settings	

### Returns

## Type Description

T

### Type Parameters

## Name Description

T

## Open(string, ILogger)

Zip file extended

### Declaration

```
public static ZipFileExtended Open(string file, ILogger logger)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	file	
<a href="#">ILogger</a>	logger	

### Returns

Type	Description
<a href="#">ZipFileExtended</a>	

## Remove(string)

Remove entry

### Declaration

```
public bool Remove(string entryName)
```

### Parameters

**Type Name Description**

[string](#) entryName

**Returns****Type Description**

[bool](#)

**RemoveBulk(List<string>)**

Remove several entries

**Declaration**

```
public bool RemoveBulk(List<string> entryNames)
```

**Parameters****Type Name Description**

[List<string>](#) entryNames

**Returns****Type Description**

[bool](#)

**WriteFilesToZipStream(Stream, Dictionary<string, string>)**

Writes a list of file to an output stream

**Declaration**

```
public static void WriteFilesToZipStream(Stream outputStream, Dictionary<string, string> filesToWrite)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	outputStream	stream must be open and write able
------------------------	--------------	------------------------------------

<a href="#">Dictionary&lt;string, string&gt;</a>	filesToWrite	dictionary with file names as key and file names including paths in the zip file
--	--------------	--

# Namespace RetailForce.Fiscalisation.Implementation

## Classes

### [FiscalCountryMapper](#)

Class to map fiscal country to iso alpha 2 codes.

### [FiscalCountryPropertiesBase<TRequiredAttribute>](#)

### [TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)

Base class for all country specific implementations.

## Interfaces

### [IFiscalCountryProperties](#)

Represents fiscal country properties (necessary document types, type of fiscal interface, use of customer display...).

## Enums

### [ReceiptDomain](#)

The domain for the receipt (for returns or reprints).

### [ReturnAndSaleBehavior](#)

### [ReturnReferenceBehavior](#)

Enum if multiple or single documents are allowed in a return.

# Class FiscalCountryMapper

Class to map fiscal country to iso alpha 2 codes.

## Inheritance

[object](#)

FiscalCountryMapper

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalCountryMapper
```

## Methods

### GetFiscalCountryFromIsoAlpha2(string)

Returns the fiscal country ([FiscalCountry](#)) from the iso alpha 2 code (case insensitive).

#### Declaration

```
public static FiscalCountry GetFiscalCountryFromIsoAlpha2 (string countryCode)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	countryCode	The iso alpha 2 country code to map.
------------------------	-------------	--------------------------------------

#### Returns

Type	Description
<a href="#">FiscalCountry</a>	The fiscal country ( <a href="#">FiscalCountry</a> ) from the iso alpha 2 code (case insensitive).

#### Exceptions

Type	Condition
<a href="#">NotImplementedException</a>	Thrown if the given country code is not covered by this method.

### GetIsoAlpha2CountryCode(FiscalCountry)

Returns the iso alpha 2 code form the [FiscalCountry](#).

#### Declaration

```
public static string GetIsoAlpha2CountryCode (FiscalCountry fiscalCountry)
```

## Parameters

Type	Name	Description
<a href="#">FiscalCountry</a>	fiscalCountry	The fiscal country to map.

## Returns

Type	Description
<a href="#">string</a>	The iso alpha 2 code form the <a href="#">FiscalCountry</a> .

## Exceptions

Type	Condition
<a href="#">NotImplementedException</a>	Thrown if the given fiscal country is not covered by this method.

# Class FiscalCountryPropertiesBase<TRequiredAttribute>

## Inheritance

[object](#)

FiscalCountryPropertiesBase<TRequiredAttribute>

[AustrianFiscalProperties](#)

[CroatiaFiscalProperties](#)

[DenmarkFiscalProperties](#)

[FlinkFiscalProperties<TRequiredAttribute>](#)

[FranceFiscalProperties](#)

[GermanFiscalProperties](#)

[HungarianFiscalProperties](#)

[ItalianFiscalProperties](#)

[LithuaniaFiscalProperties](#)

[NoFiscalisationProperties](#)

[SerbiaFiscalProperties](#)

[SlovenienFiscalProperties](#)

[SpainFiscalProperties](#)

[SwedenFiscalProperties](#)

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class FiscalCountryPropertiesBase<TRequiredAttribute> : IFiscalCountryProperties where TRequiredAttribute : RequiredAttribute
```

## Type Parameters

Name	Description
------	-------------

TRequiredAttribute	
--------------------	--

## Properties

### AmountDecimalPlaces

Returns the number of allowed decimal places for each amount (price, values, tax values, etc.).

#### Declaration

```
public virtual int AmountDecimalPlaces { get; }
```

#### Property Value

#### Type Description

[int](#)

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public abstract bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public abstract Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

#### CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

#### Declaration

```
public abstract bool CustomerDisplayMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### DocumentTypeBusinessTransactionTypeSupport

Returns a dictionary for information which document type supports which business transaction type.

#### Declaration

```
public virtual Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>> DocumentTypeBusinessTransactionTypeSupport { get; }
```

#### Property Value

Type	Description
<a href="#">Dictionary&lt;DocumentType, Dictionary&lt;BusinessTransactionType, bool&gt;&gt;</a>	

#### Remarks

If document type is set, but business transaction type dictionary is null -> all business transaction types are allowed. If document type is not found, all business transaction types are allowed. If document type and business transaction type is found, value must be true to be supported.

#### EntityParameters

Returns a list of optional and mandatory entity parameters.

#### Declaration

```
public virtual List<EntityParameterInfo> EntityParameters { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;EntityParameterInfo&gt;</a>	

#### Remarks

Entity parameters are parameters to master data entities (distributor, organization, company, store, terminal) which are necessary for fiscal client configuration.

#### FiscalCountry

The fiscal country for this property collection.

#### Declaration

```
public abstract FiscalCountry FiscalCountry { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalCountry</a>	

#### FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

#### Declaration

```
public abstract List<DocumentType> FiscalDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

Type	Description
------	-------------

### **FiscalLineInterface**

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

#### **Declaration**

```
public abstract bool FiscalLineInterface { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

### **FiscalModuleCalculatesTaxRates**

True if the tax rates for the receipt are calculated by the fiscal module; otherwise false.

#### **Declaration**

```
public virtual bool FiscalModuleCalculatesTaxRates { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

### **FiscalRegions**

If the country has different fiscal regions, you can query this property for the fiscal regions for this country.

#### **Declaration**

```
public virtual List<string> FiscalRegions { get; }
```

#### **Property Value**

Type	Description
------	-------------

[List<string>](#)

### **GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

#### **Declaration**

```
public abstract string GetCloudArchiveAccessLicense { get; }
```

#### **Property Value**

#### **Type Description**

[string](#)

#### **Remarks**

Return empty string if there is not cloud

### **MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### **Declaration**

```
public abstract int MaximumHourIntervalForClosing { get; }
```

#### **Property Value**

#### **Type Description**

[int](#)

#### **Remarks**

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

### **MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.



#### Declaration

```
public abstract bool MustRecordDocumentReprint { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### Declaration

```
public abstract bool MustSendClosingPerDay { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

#### Declaration

```
public abstract List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

#### Declaration

```
public abstract List<DocumentType> NotSupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPayOutTypes

Returns a list of all not supported pay out types.

#### Declaration

```
public virtual List<PayOutType> NotSupportedPayOutTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PayOutType&gt;</a>	

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

#### Declaration

```
public abstract List<PaymentType> NotSupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of FiscalResponse) has to be printed out on the receipt or not.

#### Declaration

```
public abstract bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public abstract ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public abstract ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnAndSaleBehavior](#)

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public abstract ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public abstract ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnReferenceBehavior](#)

#### StartDocumentType

Returns the start document type for initialization.

#### Declaration

```
public virtual DocumentType StartDocumentType { get; }
```

#### Property Value

Type	Description
------	-------------

[DocumentType](#)

#### StoreNumberValidCharsRegex

The valid characters for the store number in this country (default: a-z0-9\_).

#### Declaration

```
public virtual string StoreNumberValidCharsRegex { get; }
```

#### Property Value

#### Type Description

[string](#)

#### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public abstract List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public abstract List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedEnvironments

Returns the supported environments for the fiscal module.

#### Declaration

```
public virtual List<FiscalModuleEnvironment> SupportedEnvironments { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;FiscalModuleEnvironment&gt;</a>	

#### SupportedPayOutTypes

Returns a list of all supported pay out types.

#### Declaration

```
public virtual List<PayOutType> SupportedPayOutTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PayOutType&gt;</a>	

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public abstract List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public abstract ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	
---	--

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public abstract bool SurchargesPossible { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### TaxFreeVat

The tax free vat class for this country.

#### Declaration

```
public abstract Vat TaxFreeVat { get; }
```

#### Property Value

#### Type Description

[Vat](#)

#### TerminalNumberValidCharsRegex

The valid characters for the terminal number in this country (default: a-z0-9\_).

#### Declaration

```
public virtual string TerminalNumberValidCharsRegex { get; }
```

#### Property Value

#### Type Description

[string](#)

#### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

#### Declaration

```
public abstract bool TrainingModeAllowed { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Methods

#### CheckAddress(List<ValidationError>, string, Address)

Checks if address is not null and if address fields (Street, StreetNumber, City, PostalCode) are set.

#### Declaration

```
protected void CheckAddress(List<ValidationError> errorList, string objectName, Address address)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	errorList	The error list to add possible validation errors.
---	-----------	---

Type	Name	Description
<a href="#">string</a>	objectName	The name of the object for the error message.

<a href="#">Address</a>	address	The address object itself.
-------------------------	---------	----------------------------

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>errorList</code> is set to null.

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>objectName</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	---

#### CompanyIdentificationSet(FiscalClient, IdentificationType)

Returns whether the given type exists and is filled up with at least one character.

#### Declaration

```
protected bool CompanyIdentificationSet(FiscalClient client, CompanyIdentification.IdentificationType type)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The client to check.
<a href="#">CompanyIdentification.IdentificationType</a>	type	The type to check.

#### Returns

Type	Description
<a href="#">bool</a>	True if the given type exists and the identification field is filled up with at least one character.

#### ValidateClient(FiscalClient)

Validates a fiscal client.

#### Declaration

```
public List<ValidationError> ValidateClient(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The client to validate.

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects representing the validation errors for the client configuration. Null if no validation was done.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>client</code> is set to null.

#### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected abstract List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### Returns

Type	Description
<a href="#">List</a>	<ValidationError>

#### Implements

[IFiscalCountryProperties](#)

## Interface IFiscalCountryProperties

Represents fiscal country properties (necessary document types, type of fiscal interface, use of customer display...).

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public interface IFiscalCountryProperties
```

### Properties

#### AmountDecimalPlaces

Returns the number of allowed decimal places for each amount (price, values, tax values, etc.).

#### Declaration

```
[HelpInformation("Specifies how many decimal places can be included (maximum) in the JSON-document to the Fiscal Middleware when sending amounts / totals.", null)]  
int AmountDecimalPlaces { get; }
```

#### Property Value

#### Type Description

[int](#)

#### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
[HelpInformation("Indicates whether a technical journal is obligatory; Technical Journal records technical events of the cash register", "https://support.retailforce.cloud/hc/en-")  
bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
[HelpInformation("Indicates the currently valid version of the Trusted Fiscal Country Module", null)]  
Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

#### CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

#### Declaration

```
[HelpInformation("Indicates whether customer display must be used mandatory (true, else: false)", null)]  
bool CustomerDisplayMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### DocumentTypeBusinessTransactionTypeSupport

Returns a dictionary for information which document type supports which business transaction type.

#### Declaration

```
Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>> DocumentTypeBusinessTransactionTypeSupport { get; }
```

#### Property Value

Type	Description
<a href="#">Dictionary&lt;DocumentType, Dictionary&lt;BusinessTransactionType, bool&gt;&gt;</a>	

#### Remarks

If document type is set, but business transaction type dictionary is null -> all business transaction types are allowed. If document type is not found, all business transaction types are allowed. If document type and business transaction type is found, value must be true to be supported.

#### EntityParameters

Returns a list of optional and mandatory entity parameters.

#### Declaration

```
List<EntityParameterInfo> EntityParameters { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;EntityParameterInfo&gt;</a>	

#### Remarks

Entity parameters are parameters to master data entities (distributor, organization, company, store, terminal) which are necessary for fiscal client configuration.

### FiscalCountry

The fiscal country for this property collection.

#### Declaration

```
FiscalCountry FiscalCountry { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalCountry</a>	

### FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

#### Declaration

```
List<DocumentType> FiscalDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

### FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

#### Declaration

```
[HelpInformation("Indicates if line-by-line printing is mandatory (true, else:false).", null)]  
bool FiscalLineInterface { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

### FiscalModuleCalculatesTaxRates

True if the tax rates for the receipt are calculated by the fiscal module; otherwise false.

#### Declaration

```
[HelpInformation("Indicates whether the VAT rates are calculated by the respective fiscal module of the country.", null)]  
bool FiscalModuleCalculatesTaxRates { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

### FiscalRegions

If the country has different fiscal regions, you can query this property for the fiscal regions for this country.

#### Declaration

```
List<string> FiscalRegions { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;string&gt;</a>	

### GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

#### Declaration

```
string GetCloudArchiveAccessLicense { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Remarks

Return empty string if there is not cloud

### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### Declaration

```
[HelpInformation("Specifies the time period from the opening of the day within which a daily closing must be done.", null)]  
int MaximumHourIntervalForClosing { get; }
```

#### Property Value

Type	Description
<a href="#">int</a>	

#### Remarks



If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

#### MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

##### Declaration

```
[HelpInformation("Indicates whether it is obligatory to record reprints of documents (true, else: false)", null)]  
bool MustRecordDocumentReprint { get; }
```

##### Property Value

##### Type Description

[bool](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

##### Declaration

```
[HelpInformation("Indicates if it is obligatory to do a daily closing of the cash register system.", null)]  
bool MustSendClosingPerDay { get; }
```

##### Property Value

##### Type Description

[bool](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

##### Declaration

```
List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

##### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

##### Declaration

```
List<DocumentType> NotSupportedDocumentTypes { get; }
```

##### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

##### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPayOutTypes

Returns a list of all not supported pay out types.

##### Declaration

```
List<PayOutType> NotSupportedPayOutTypes { get; }
```

##### Property Value

Type	Description
<a href="#">List&lt;PayOutType&gt;</a>	

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

##### Declaration

```
List<PaymentType> NotSupportedPaymentTypes { get; }
```

##### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

##### Declaration

```
bool PrintFiscalDocumentNumber { get; }
```

##### Property Value

##### Type Description

[bool](#)

#### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
[HelpInformation("Specifies the domain within which a document may be reprinted: only at the same cash register, in the same shop/branch/organization but on a different cash regi:  
ReceiptDomain ReprintAllowedDomain { get; }]
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
[HelpInformation("Indicates whether it is allowed to mix sales transactions and redemptions (exchanges) on one receipt or whether they must be recorded separately (multipleReceipt:  
ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }]
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
[HelpInformation("Specifies within which domain a return of goods may be made; only at the same cash register as the sales transaction, at another cash register at the same locat:  
ReceiptDomain ReturnDomainAllowed { get; }]
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
[HelpInformation("Specifies whether multiple sales transactions (multiple) or only a single sales transaction (single) may be referenced for a return of goods / services.", null).  
ReturnReferenceBehavior ReturnReferenceBehavior { get; }]
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### StartDocumentType

Returns the start document type for initialization.

#### Declaration

```
[HelpInformation("Returns the start document type for initialization.", null)]  
DocumentType StartDocumentType { get; }]
```

#### Property Value

Type	Description
<a href="#">DocumentType</a>	

#### StoreNumberValidCharsRegex

The valid characters for the store number in this country (default: a-z0-9\_).

#### Declaration

```
string StoreNumberValidCharsRegex { get; }]
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }]
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
[HelpInformation("Returns all document types which are supported in this country.", null)]  
List<DocumentType> SupportedDocumentTypes { get; }]
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedEnvironments

Returns the supported environments for the fiscal module.

#### Declaration

```
List<FiscalModuleEnvironment> SupportedEnvironments { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;FiscalModuleEnvironment&gt;</a>	

#### SupportedPayOutTypes

Returns a list of all supported pay out types.

#### Declaration

```
List<PayOutType> SupportedPayOutTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PayOutType&gt;</a>	

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
[HelpInformation("Indicates whether surcharges are allowed in the respective country.", null)]  
bool SurchargesPossible { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### TaxFreeVat

The tax free vat class for this country.

#### Declaration

```
Vat TaxFreeVat { get; }
```

#### Property Value

Type	Description
<a href="#">Vat</a>	

#### TerminalNumberValidCharsRegex

The valid characters for the terminal number in this country (default: a-z0-9\_).

#### Declaration

```
string TerminalNumberValidCharsRegex { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
[HelpInformation("Indicates whether a training / demo / training mode of the cash register is allowed in the respective country.", null)]  
bool TrainingModeAllowed { get; }
```

### Property Value

### Type Description

[bool](#)

### Methods

#### ValidateClient(FiscalClient)

Validates a fiscal client.

### Declaration

```
List<ValidationError> ValidateClient (FiscalClient client)
```

### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The client to validate.

### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects representing the validation errors for the client configuration. Null if no validation was done.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>client</code> is set to null.

# Enum ReceiptDomain

The domain for the receipt (for returns or reprints).

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ReceiptDomain
```

## Fields

Name	Description
All	Receipt is allowed anywhere.
Organization	Receipt is allowed within organization.
Store	Receipt is allowed within store.
Terminal	Receipt is allowed within terminal.

# Enum ReturnAndSaleBehavior

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ReturnAndSaleBehavior
```

## Fields

Name	Description
MultiReceipt	You have to create at least 2 receipts for sale and return.
NoReturnAllowed	No return is allowed in this country through fiscal system.
OneReceiptAllowed	Return and sale are allowed without any limitations in one receipt.
OneReceiptAllowedPerVatRate	Returns and sale are allowed only within one vat rate.

# Enum ReturnReferenceBehavior

Enum if multiple or single documents are allowed in a return.

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ReturnReferenceBehavior
```

## Fields

Name	Description
Multiple	Multiple document references are allowed within one document.
Single	Only one document reference is allowed within one document.

# Class TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>

Base class for all country specific implementations.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)  
[TrustedFiscalModuleAustria](#)  
[TrustedFiscalModuleCroatia](#)  
[TrustedFiscalModuleDenmark](#)  
[TrustedFiscalModuleFlink<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)  
[TrustedFiscalModuleFrance](#)  
[TrustedFiscalModuleGermany](#)  
[TrustedFiscalModuleHungary](#)  
[TrustedFiscalModuleItaly](#)  
[TrustedFiscalModuleLithuania](#)  
[TrustedFiscalModuleNoFiscalisation](#)  
[TrustedFiscalModuleSerbia](#)  
[TrustedFiscalModuleAdriaBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)  
[TrustedFiscalModuleSpain](#)  
[TrustedFiscalModuleSweden](#)

## Implements

[IFiscalModulImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleBase.Client](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.FiscalModuleEnvironment](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties> : TrustedFiscalModuleBase, IFiscalModulImplementation, I
```

## Type Parameters

Name	Description
TClientConfiguration	
TRequiredAttribute	
TCountryProperties	

## Constructors

**TrustedFiscalModuleImplementationBase(FiscalClient, ILogger, string, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

Constructor.

## Declaration

```
protected TrustedFiscalModuleImplementationBase(FiscalClient client, ILogger logger, string logSource, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataSt
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The fiscal client for the modules.
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">string</a>	logSource	The name of the source when a log entry is written. Replace in country implementation with nameof(TrustedFiscalModule{CountryName}).
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	Action to store the configuration to the configuration file (if necessary).
<a href="#">FiscalDataStorageProvider</a>	storageProvider	The storage provider to gain access to data storages local and in the cloud.
<a href="#">CloudService</a>	cloudService	The service to connect to the retailforce cloud system. Optional.
<a href="#">string</a>	cloudApiKey	The api key for cloud authentication. Optional.



Type	Name	Description
<a href="#">string</a>	cloudApiSecret	The api secret for cloud authentication. Optional.

#### Remarks

If parameter `cloudService` is set by valid object then authentication will be tried with given security information.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>client</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>logger</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>logSource</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if <code>storeConfiguration</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if property <a href="#">FiscalModullImplementationConfiguration</a> is null or not of type <code>TClientConfiguration</code> .
<a href="#">CloudNotConnectedException</a>	Thrown if cloud parameters are not server and cloud connection is mandatory by the client.

#### Fields

##### CertificateStore

###### Declaration

```
protected ICertificateStore CertificateStore
```

###### Field Value

Type	Description
<a href="#">ICertificateStore</a>	

##### ClientConfiguration

###### Declaration

```
protected TClientConfiguration ClientConfiguration
```

###### Field Value

Type	Description
<code>TClientConfiguration</code>	

##### CloudApiKey

###### Declaration

```
protected string CloudApiKey
```

###### Field Value

Type	Description
<a href="#">string</a>	

##### CloudApiSecret

###### Declaration

```
protected string CloudApiSecret
```

###### Field Value

Type	Description
<a href="#">string</a>	

#### Properties

##### CloudArchive

True when cloud archive is activated; otherwise false.

###### Declaration

```
public bool CloudArchive { get; }
```

###### Property Value

Type	Description
<a href="#">bool</a>	

##### CloudMessagesQueued

Returns the count of actual queued cloud files waiting for upload.

###### Declaration

```
protected int CloudMessagesQueued { get; }
```

###### Property Value

Type	Description
<code>int</code>	

## Type Description

[int](#)

## CloudMessagesStoragePeriod

Returns the number of minutes of the oldest file stored in cloud message queue.

### Declaration

```
protected int CloudMessagesStoragePeriod { get; }
```

### Property Value

## Type Description

[int](#)

## CloudService

The cloud service if set (can be null).

### Declaration

```
public CloudService CloudService { get; }
```

### Property Value

## Type Description

[CloudService](#)

### Remarks

Use [CloudArchive](#) property to check if cloud archive is enabled.

## CountryProperties

Returns the country properties for this fiscal module.

### Declaration

```
public TCountryProperties CountryProperties { get; }
```

### Property Value

## Type Description

[TCountryProperties](#)

## FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public abstract FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

## Type Description

[FiscalClientStatus](#)

## GetLastDocumentResponse

Function to fetch last document response -> this property will be set at fiscal module creation.

### Declaration

```
public Func<FiscalResponse> GetLastDocumentResponse { get; set; }
```

### Property Value

## Type Description

[Func<FiscalResponse>](#)

## PerformanceTraceToFile

Turns on performance trace file logging.

### Declaration

```
public bool PerformanceTraceToFile { get; set; }
```

### Property Value

## Type Description

[bool](#)

### Remarks

If debug mode is enabled than this property always returns true. Trace file is placed in client storage directory and called "performance.trace".

## TrustedFiscalModule

Reference to the parent global trusted fiscal module.

### Declaration

```
public TrustedFiscalModule TrustedFiscalModule { get; set; }
```

### Property Value

## Type Description

Type	Description
<a href="#">TrustedFiscalModule</a>	

## Methods

### AddAuditLog(AuditLogEntry)

Method to add audit log to the country specific system.

#### Declaration

```
public virtual FiscalResponse AddAuditLog(AuditLogEntry auditLogEntry)
```

#### Parameters

Type	Name	Description
<a href="#">AuditLogEntry</a>	auditLogEntry	The audit log entry to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	FiscalResponse of the respective country or null if not necessary (depends on the country implementation).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>auditLogEntry</code> is set to null.

### CallBufferedCloudFunction(CloudFunctionCall)

Calls a retailforce cloud function (`api.retailforce.cloud`) and buffers the call until cloud is available again.

#### Declaration

```
public void CallBufferedCloudFunction(CloudFunctionCall functionCall)
```

#### Parameters

Type	Name	Description
<a href="#">CloudFunctionCall</a>	functionCall	The parameters and url of the function call.

#### Remarks

If cloud service of module is not set (cloud not available), the call is discarded.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>functionCall</code> is set to null.

### CancelDocument(Document)

Cancels a document on the fiscal interface.

#### Declaration

```
public abstract FiscalResponse CancelDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### CancelErrorDocument(Guid)

Method to cancel one error document.

#### Declaration

```
public virtual void CancelErrorDocument(Guid documentGuid)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The guid of the document to cancel.

#### Exceptions

Type	Condition
------	-----------

**Type** **Condition**

[NotImplementedException](#) Thrown if the method is not implemented in the current country implementation.

#### **CloudArchiveEnabled(TClientConfiguration)**

Returns true if the client configuration for the respective country has cloud archive enabled.

##### **Declaration**

```
protected abstract bool CloudArchiveEnabled(TClientConfiguration clientConfiguration)
```

##### **Parameters**

Type	Name	Description
TClientConfiguration	clientConfiguration	

##### **Returns**

##### **Type Description**

[bool](#)

##### **Remarks**

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### **CreateDocument(DocumentType)**

Creates a document at the fiscal interface and returns appropriate data.

##### **Declaration**

```
public abstract FiscalResponse CreateDocument(DocumentType documentType)
```

##### **Parameters**

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

##### **Returns**

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

##### **Remarks**

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### **DecommissionClient(Document)**

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

##### **Declaration**

```
public abstract FiscalResponse DecommissionClient(Document endDocument)
```

##### **Parameters**

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

##### **Returns**

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### **DisplayText(string, string)**

Displays a text on a customer display (only if attached and fiscal customer display)

##### **Declaration**

```
public virtual void DisplayText(string line1, string line2)
```

##### **Parameters**

Type	Name	Description
<a href="#">string</a>	line1	The first line to display.
<a href="#">string</a>	line2	The second line to display.

#### **Dispose()**

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

##### **Declaration**

```
public virtual void Dispose()
```

#### **DownloadExternalCertificate(string, bool, string)**

Downloads the external certificate stored in the cloud with given certificate name.

#### Declaration

```
public void DownloadExternalCertificate(string certificateName = null, bool overWrite = false, string certificateUrl = "")
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The id of the certificate to download; if null the default certificate is downloaded.
<a href="#">bool</a>	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.
<a href="#">string</a>	certificateUrl	The url of the certificate download endpoint. Default:

#### Exceptions

Type	Condition
<a href="#">FileAlreadyExistsException</a>	Thrown if the certificate already exists and <code>overWrite</code> is set to false.
<a href="#">CertificateException</a>	Thrown if the certificate could not be downloaded or the downloaded certificate is not valid any more.

#### DownloadOrganizationSignatureVerifyCertificate(bool)

Downloads the organization public key certificate from the cloud.

#### Declaration

```
public void DownloadOrganizationSignatureVerifyCertificate(bool overWrite = false)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if cloud credentials are not set for authentication to cloud.
<a href="#">FileAlreadyExistsException</a>	Thrown if the certificate already exists and <code>overWrite</code> is set to false.
<a href="#">CertificateException</a>	Thrown if the certificate could not be downloaded or the downloaded certificate is not valid any more.

#### DownloadSignatureCertificate(bool)

Downloads the terminal certificate from retailforce cloud.

#### Declaration

```
public void DownloadSignatureCertificate(bool overWrite = false)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.

#### Exceptions

Type	Condition
<a href="#">FileAlreadyExistsException</a>	Thrown if the certificate already exists and <code>overWrite</code> is set to false.
<a href="#">CertificateException</a>	Thrown if the certificate could not be downloaded or the downloaded certificate is not valid any more.
<a href="#">InvalidOperationException</a>	Thrown if cloud credentials are not set for authentication to cloud.

#### GetClosingNecessary(out DateTimeOffset?, DateTimeOffset?)

Returns null if not implemented; if implemented it returns if closing is necessary (true); otherwise false.

#### Declaration

```
public virtual bool? GetClosingNecessary(out DateTimeOffset? lastClosingDateInterval, DateTimeOffset? checkTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">DateTimeOffset?</a>	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.
<a href="#">DateTimeOffset?</a>	checkTime	The time when the check should be performed.

#### Returns

Type	Description
<a href="#">bool?</a>	Null if not implemented; if implemented it returns if closing is necessary (true); otherwise false.

#### GetCountryUnspecificFiscalClientStatus()

##### Declaration

```
protected FiscalClientStatus GetCountryUnspecificFiscalClientStatus()
```

##### Returns

Type	Description
<a href="#">FiscalClientStatus</a>	

#### GetDocumentMandatoryFields(Type)

Returns the mandatory fields for this type for the given country implementation.

##### Declaration

```
public virtual IReadOnlyList<string> GetDocumentMandatoryFields(Type t)
```

##### Parameters

Type Name	Description
<a href="#">Type</a> t	The type to get the mandatory fields.

##### Returns

Type	Description
<a href="#">IReadOnlyList&lt;string&gt;</a>	A list of property names representing the mandatory fields for this country implementation.

#### GetErrorDocuments(bool)

Returns all error documents from the system which have errors sending to authorities.

##### Declaration

```
public virtual List<Guid> GetErrorDocuments(bool onlyAsync)
```

##### Parameters

Type	Name	Description
<a href="#">bool</a>	onlyAsync	True if only error documents should be returned which where generated in asynchronous operation.

##### Returns

Type	Description
<a href="#">List&lt;Guid&gt;</a>	A list of document guid representing all error documents from the system which have errors sending to authorities.

##### Remarks

This method is only implemented in countries sending data asynchronous to tax authorities (like spain, lithuania).

##### Exceptions

Type	Condition
<a href="#">NotImplementedException</a>	Thrown if the method is not implemented in the current country implementation.

#### GetExternalCertificate(string)

Returns a x509 certificate structure.

##### Declaration

```
protected X509Certificate2 GetExternalCertificate(string certificateName = null)
```

##### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The id of the certificate. If null default is returned.

##### Returns

Type	Description
<a href="#">X509Certificate2</a>	A <a href="#">X509Certificate2</a> object representing the requested certificate.

##### Exceptions

Type	Condition
<a href="#">CertificateException</a>	

#### GetExternalCertificateSignatureInterface(string, string)

Returns a [X509SignatureInterface](#) from the external certificate.

#### Declaration

```
protected virtual ISignatureInterface GetExternalCertificateSignatureInterface(string certificateName = null, string certificateAlias = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The id of the certificate. If null default is returned.
<a href="#">string</a>	certificateAlias	The alias for getting the right certificate / key from the storage.

#### Returns

Type	Description
<a href="#">ISignatureInterface</a>	A <a href="#">X509SignatureInterface</a> object representing the signature interface for the requested external certificate.

#### Exceptions

Type	Condition
<a href="#">CertificateException</a>	Thrown if certificate cannot be read from disk.

#### GetOrganizationSignatureCertificateFilename()

Returns the name of the organization signature certificate file.

#### Declaration

```
protected string GetOrganizationSignatureCertificateFilename()
```

#### Returns

Type	Description
<a href="#">string</a>	The name of the organization signature certificate file.

#### GetOrganizationSignatureVerifyInterface()

Returns a X509 signature verify interface based on the organization certificate file.

#### Declaration

```
protected virtual ISignatureVerifyInterface GetOrganizationSignatureVerifyInterface()
```

#### Returns

Type	Description
<a href="#">ISignatureVerifyInterface</a>	A <a href="#">X509SignatureVerifyInterface</a> object representing the signature verify interface for the organization.

#### Remarks

If certificate is out of date, certificate will be downloaded again from cloud.

#### GetSignatureInterface()

Returns a X509 signature interface based on the terminal certificate file.

#### Declaration

```
protected virtual ISignatureInterface GetSignatureInterface()
```

#### Returns

Type	Description
<a href="#">ISignatureInterface</a>	A <a href="#">X509SignatureInterface</a> object representing the signature interface for this terminal.

#### Remarks

If certificate is out of date, certificate will be downloaded again from cloud.

#### GetTaxFreeVat()

Returns the vat object for country specific zero tax based transactions.

#### Declaration

```
[Obsolete("Use CountryProperties.TaxFree vat instead.")]  
public Vat GetTaxFreeVat()
```

#### Returns

Type	Description
<a href="#">Vat</a>	A vat object representing the zero tax based vat object.

#### Remarks

Can be used for payin/payout, cash difference.

#### GetTerminalSignatureCertificateFilename()

Returns the name of the terminal signature file.

#### Declaration

```
protected string GetTerminalSignatureCertificateFilename()
```

#### Returns

Type	Description
------	-------------

[string](#) The name of the terminal signature file.

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public abstract string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
------	-------------

[string](#) The unique cash register id (storenumber/terminalnumber).

#### GetVatIdentification(decimal, DateTime)

Returns the appropriate vat identification for the requested percentage and date/time.

#### Declaration

```
public virtual int? GetVatIdentification(decimal vatPercent, DateTime requestDate)
```

#### Parameters

Type	Name	Description
------	------	-------------

[decimal](#) vatPercent The vat percentage for the requested vat identification.

[DateTime](#) requestDate The date/time for the requested vat identification.

#### Returns

Type	Description
------	-------------

[int?](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public abstract FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) startDocument A document of type [NullReceipt](#) representing the starting document of the fiscalisation.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### MapDocumentToCloudReceiptMetaData(Document, Guid)

Map a [Document](#) to an cloud ReceiptMetaData RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData

#### Declaration

```
public ReceiptMetaData MapDocumentToCloudReceiptMetaData(Document document, Guid documentGuid)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) document The [Document](#) which have to be mapped

[Guid](#) documentGuid The document guid of the document to get the receipt meta data.

#### Returns

Type	Description
------	-------------

ReceiptMetaData The mapped RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData object

#### MapDocumentToReceiptMetaData(Document, Guid)

Map a [Document](#) to an [ReceiptMetaData](#)

#### Declaration

```
public ReceiptMetaData MapDocumentToReceiptMetaData(Document document, Guid documentGuid)
```



#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The <a href="#">Document</a> which have to be mapped
<a href="#">Guid</a>	documentGuid	The document guid of the document to get the receipt meta data.

#### Returns

Type	Description
<a href="#">ReceiptMetaData</a>	The mapped <a href="#">ReceiptMetaData</a> object

#### MapReceiptMetaDataToCloudReceiptMetaData(ReceiptMetaData)

Map a [ReceiptMetaData](#) to an cloud RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData

#### Declaration

```
public ReceiptMetaData MapReceiptMetaDataToCloudReceiptMetaData(ReceiptMetaData receiptMetaData)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptMetaData</a>	receiptMetaData	The <a href="#">ReceiptMetaData</a> which have to be mapped

#### Returns

Type	Description
<a href="#">ReceiptMetaData</a>	The mapped RetailForce.Cloud.Shared.Model.Receipts.ReceiptMetaData object.

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public abstract void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotImplementedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public abstract void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
public virtual void OpenDrawer(User user)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).

#### ReprintDocument(Document, string)

Stores a document reprint to the fiscal interface.

#### Declaration

```
public virtual FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.
<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Remarks

Not necessary in all countries. See [MustRecordDocumentReprint](#) if it must be sent. If not necessary or if fiscal system is not responding with [FiscalResponse](#) null is returned.

#### RestoreByCloudInitializeClient()

This method is called after restore by cloud to do several initialization steps (if necessary).

#### Declaration

```
public virtual void RestoreByCloudInitializeClient()
```

#### SetCloudCredentials(string, string)

Connect or reconnects the client to the cloud (if connection was not be done before).

#### Declaration

```
public void SetCloudCredentials(string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
<a href="#">string</a>	cloudApiSecret	The api secret for cloud authentication to the retailforce cloud.

#### Remarks

ATTENTION: Only call this method if cloud credentials are right; otherwise you'll disable cloud communication until you correct the credentials again.

#### SignData(byte[])

Signs data using the internal [ISignatureInterface](#).

#### Declaration

```
public string SignData(byte[] data)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	data	The data to sign.
------------------------	------	-------------------

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The signature as base64-url-encoded value.
------------------------	--

#### StoreConfiguration(TClientConfiguration)

#### Declaration

```
protected virtual void StoreConfiguration(TClientConfiguration configuration)
```

#### Parameters

Type	Name	Description
------	------	-------------

TClientConfiguration	configuration	
----------------------	---------------	--

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public abstract FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to store.
--------------------------	----------	------------------------

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.
--------------------------------	--

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### StoreExternalCertificate(Stream, string, bool, string)

Stores an external certificate to the fiscal module certificate store.

#### Declaration

```
public void StoreExternalCertificate(Stream pfxStream, string pfxPassword, bool overwrite = false, string certificateName = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	pfxStream	The stream containing the certificate in PKSC12 format. Stream must be at the beginning (Seek.Beginning).
------------------------	-----------	---

<a href="#">string</a>	pfxPassword	The password to access the private key of the certificate.
------------------------	-------------	--

<a href="#">bool</a>	overwrite	True if a certificate which is already stored should be overwritten; otherwise false. Default is false.
----------------------	-----------	---

<a href="#">string</a>	certificateName	The id of the certificate to store; if null the certificate is stored as default certificate.
------------------------	-----------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfxStream</code> is set to null.
---------------------------------------	--

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfxPassword</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	--

<a href="#">FileAlreadyExistsException</a>	Thrown if the given certificate already exists and parameter <code>overwrite</code> is set to false.
--	--

#### UploadDigitalReceipt(ReceiptMetaData, Stream)

Uploads a digital receipt to the cloud (sends it to the cloud service for buffered uploading).

#### Declaration

```
public void UploadDigitalReceipt(ReceiptMetaData receiptData, Stream file)
```

#### Parameters

Type	Name	Description
------	------	-------------

ReceiptMetaData	receiptData	
-----------------	-------------	--

Type	Name	Description
<a href="#">Stream</a>	file	The file as stream (pdf).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>file</code> is set to null.

[ArgumentNullException](#) Thrown if parameter `receiptData` is set to null.

#### ValidateDocument(Document, bool)

Validates a document and returns (if appropriate) a list of document validation errors.

#### Declaration

```
public List<DocumentValidationError> ValidateDocument(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.

[bool](#) reprintDocument True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	The list of document validation errors.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected abstract List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### ValidateFiscalClient(Document)

Validates the fiscal client for the given document.

#### Declaration

```
public virtual List<DocumentValidationError> ValidateFiscalClient(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document containing the fiscal client.

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of document validation errors.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.

[ArgumentException](#) Thrown if property `FiscalClient` of parameter of `document` is set to null.

#### VerifySignature(byte[], string)

Verifies the signature and the data.

#### Declaration

```
public bool VerifySignature(byte[] data, string signature)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	data	The data which was signed before.
------------------------	------	-----------------------------------

<a href="#">string</a>	signature	The base64-url-encoded signature to verify.
------------------------	-----------	---

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the signature is correct; otherwise false.
----------------------	--

#### WritePerformanceTrace(string)

Write performance trace log and if enabled also performance trace file.

#### Declaration

```
public void WritePerformanceTrace(string performanceCounterId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	performanceCounterId	The id of the performance counter to trace. If null, empty or wrong id no trace is done.
------------------------	----------------------	--

#### Remarks

To enable performance trace file set [PerformanceTraceToFile](#) property to true. If debug mode is enabled than this property always returns true. Trace file is placed in client storage directory and called "performance.trace".

#### Implements

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Austria

## Classes

### [AustrianFiscalProperties](#)

Properties for Austria.

### [AustrianFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for austrian fiscalisation.

### [AustrianValidation](#)

### [ClientConfiguration](#)

The Austrian country specific configuration for the client.

### [FiscalResponseAustria](#)

Representation for fiscal response austria (additional fields)

### [SignDeviceConfiguration](#)

Sign device configuration (hsm, smartcard, etc.)

### [SignDeviceDriverInfo](#)

Information about the sign device driver an it's configuration.

### [TrustedFiscalModuleAustria](#)

Implementation for fiscalisation of Austria.

## Enums

### [SignDeviceDriver](#)

The device driver type.

# Class AustrianFiscalProperties

Properties for Austria.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>](#)

AustrianFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class AustrianFiscalProperties : FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

#### Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

Type	Description
------	-------------

[FiscalCountry](#)

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

#### Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.FiscalLineInterface](#)

## GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.



#### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### Remarks

Return empty string if there is not cloud

#### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

#### Property Value

#### Type Description

[int](#)

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

#### MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

#### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

#### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

#### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of FiscalResponse) has to be printed out on the receipt or not.

#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

#### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

## Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

## ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

## Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

## Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

## ReturnDomainAllowed

Returns the domain where document references are allowed.

## Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

## Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

## ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

## Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

## Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

## Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

## SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

## Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

## Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

## Overrides

## SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

## SupportedEnvironments

Returns the supported environments for the fiscal module.

### Declaration

```
public override List<FiscalModuleEnvironment> SupportedEnvironments { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;FiscalModuleEnvironment&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.SupportedEnvironments](#)

## SupportedPaymentTypes

Returns a list of all supported payment types.

### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

### Remarks

In austria all payment types are supported, but have to be distinguished between cash/no cash.

## SupportedVatDefinitions

Returns the supported vat definitions for this country.

### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

### Overrides

## SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

### Declaration

```
public override bool SurchargesPossible { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.SurchargesPossible](#)

## TaxFreeVat

The tax free vat class for this country.

### Declaration

```
public override Vat TaxFreeVat { get; }
```

### Property Value

### Type Description

[Vat](#)

### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
public override bool TrainingModeAllowed { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

#### Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class AustrianFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for austrian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
[AustrianFiscalisationRequiredAttribute](#)

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Austria](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class AustrianFiscalisationRequiredAttribute : RequiredAttribute
```



# Class AustrianValidation

## Inheritance

[object](#)

AustrianValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class AustrianValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
------	-------------

[ReadOnlyCollection<Vat>](#)

### VALIDATION\_ERROR\_SOURCE

#### Declaration

```
public const string VALIDATION_ERROR_SOURCE = "TrustedFiscalModuleAustria"
```

#### Field Value

#### Type Description

[string](#)

## Methods

### GetCashPaymentTypes()

Returns all payment types which are treated as cash in austria.

#### Declaration

```
public static List<PaymentType> GetCashPaymentTypes()
```

#### Returns

Type	Description
------	-------------

[List<PaymentType>](#) A list of all payment types which are treated as cash in austria.

### GetNoCashPaymentTypes()

Returns all payment types which are treated as not to be cash in austria.

#### Declaration

```
public static List<PaymentType> GetNoCashPaymentTypes()
```

#### Returns

Type	Description
------	-------------

[List<PaymentType>](#) A list of all payment types which are treated as not to be cash in austria.

## ValidateDocument(Document)

### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

## ValidateDocumentPosition(List<DocumentValidationError>, DateTimeOffset, DocumentPositionBase)

### Declaration

```
public static void ValidateDocumentPosition(List<DocumentValidationError> errorList, DateTimeOffset bookDate, DocumentPositionBase position)
```

### Parameters

Type	Name	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	errorList	
<a href="#">DateTimeOffset</a>	bookDate	
<a href="#">DocumentPositionBase</a>	position	

# Class ClientConfiguration

The Austrian country specific configuration for the client.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### AesKey

The aes key for encoding grand total.

#### Declaration

```
public string AesKey { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**CloudAutomaticYearReceipt**

True if automatic year receipt generation in the cloud is active; otherwise false.

**Declaration**

```
public bool CloudAutomaticYearReceipt { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**FiscalCountry**

Returns the fiscal country for this configuration.

**Declaration**

```
public FiscalCountry FiscalCountry { get; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">FiscalCountry</a>	
-------------------------------	--

**FonMemberId**

Member id of the fon (Finanzonline) user.

**Declaration**

```
public string FonMemberId { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**FonPin**

Pin of the fon (Finanzonline) user.

**Declaration**

```
public string FonPin { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**FonUserId**

User id of the fon (Finanzonline) user.

**Declaration**

```
public string FonUserId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SignDeviceActivated

Returns a list of signature devices which are activated at fon.

#### Declaration

```
public Dictionary<string, DateTime?> SignDeviceActivated { get; set; }
```

#### Property Value

Type	Description
<a href="#">Dictionary&lt;string, DateTime?&gt;</a>	

#### SignDeviceConfiguration

The sign device driver configuration.

#### Declaration

```
public List<SignDeviceConfiguration> SignDeviceConfiguration { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;SignDeviceConfiguration&gt;</a>	

#### Methods

#### Encrypt(Guid)

Encrypts sensitive data.

#### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

#### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

#### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

**Remarks**

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `oldConfiguration` is set to null.

**RemoveSensitiveData()**

Removes sensitive data from the configuration.

**Declaration**

```
public void RemoveSensitiveData()
```

**Remarks**

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

**Implements**

[IFiscalImplementationConfiguration](#)

## Class FiscalResponseAustria

Representation for fiscal response austria (additional fields)

### Inheritance

[object](#)

FiscalResponseAustria

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseAustria
```

### Remarks

At the moment there are no additional fields for austria.

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponseAustria(int, string, List<DocumentTaxPosition>, long, string, string, string, string, string)

Returns the fiscal response for austria out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseAustria(int fiscalisationDocumentNumber, string fiscalDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentSta:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">string</a>	fiscalDocumentNumber	The fiscalisation document number as string.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	qrCode	The qr code of the response.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for austria.

#### QrCode(FiscalResponse)

Returns the qr code for the printout.

**Declaration**

```
public static string QrCode(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

**Returns****Type Description**

<a href="#">string</a>	
------------------------	--



# Class SignDeviceConfiguration

Sign device configuration (hsm, smartcard, etc.)

## Inheritance

[object](#)

SignDeviceConfiguration

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignDeviceConfiguration
```

## Properties

### SignDeviceDriver

The device driver of the signature device.

#### Declaration

```
public SignDeviceDriver SignDeviceDriver { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignDeviceDriver</a>	

### SignDeviceParameter

The device driver parameters.

#### Declaration

```
public virtual List<Parameter> SignDeviceParameter { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;Parameter&gt;</a>	

# Enum SignDeviceDriver

The device driver type.

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum SignDeviceDriver
```

## Fields

Name	Description
ATrustHsm	A-trust service center hsm.
ATrustHsmLocal	Local installed a-trust hsm.
PrimeSignHsm	PrimeSign service center hsm.

# Class SignDeviceDriverInfo

Information about the sign device driver and its configuration.

## Inheritance

[object](#)

SignDeviceDriverInfo

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignDeviceDriverInfo
```

## Properties

### Parameters

Additional parameters to configure the sign device driver

### Declaration

```
public List<ParameterInfo> Parameters { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;ParameterInfo&gt;</a>	

### SignDeviceDriver

The driver for this driver information.

### Declaration

```
public SignDeviceDriver SignDeviceDriver { get; set; }
```

### Property Value

Type	Description
<a href="#">SignDeviceDriver</a>	

# Class TrustedFiscalModuleAustria

Implementation for fiscalisation of Austria.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>](#)  
[TrustedFiscalModuleAustria](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleAustria : TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>, IFi
```

## Constructors

**TrustedFiscalModuleAustria(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleAustria(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, C
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

## END\_RECEIPT

### Declaration

```
public const string END_RECEIPT = "Schlussbeleg"
```

### Field Value

### Type Description

[string](#)

## SECURITYDEVICEFAILED

### Declaration

```
public const string SECURITYDEVICEFAILED = "Sicherheitseinrichtung ausgefallen"
```

### Field Value

### Type Description

[string](#)

## SECURITYDEVICEFAILED\_URLBASE64

### Declaration

```
public const string SECURITYDEVICEFAILED_URLBASE64 = "U2ljaGVyaGVpdHnlw5yaWNoZHVuZyBhdXNnZWZhbGxlbG"
```

### Field Value

### Type Description

[string](#)

## START\_RECEIPT

### Declaration

```
public const string START_RECEIPT = "Startbeleg"
```

### Field Value

### Type Description

[string](#)

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.FiscalClientStatus](#)

## Methods

### ActivateSignatureDeviceOnFon(bool, FonServiceClient, ClientConfiguration, ILogger, bool, ProxyConfiguration)

Activates a signature device at fon.

### Declaration

```
public static SignBase ActivateSignatureDeviceOnFon(bool fonAccess, FonServiceClient fonClient, ClientConfiguration clientConfiguration, ILogger logger, bool isTest, ProxyConfigu:
```

### Parameters

Type	Name	Description
<a href="#">bool</a>	fonAccess	
<a href="#">FonServiceClient</a>	fonClient	
<a href="#">ClientConfiguration</a>	clientConfiguration	
<a href="#">ILogger</a>	logger	
<a href="#">bool</a>	isTest	
<a href="#">ProxyConfiguration</a>	proxyConfiguration	

### Returns

Type	Description
<a href="#">SignBase</a>	

### CancelDocument(Document)

Cancels the active document. Not necessary in austria.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	An empty fiscal response.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CancelDocument\(Document\)](#)

#### Remarks

In Austrian implementation it is not necessary to call [CreateDocument\(DocumentType\)](#), but it can.

#### CheckDocumentValidatedOnFon(string)

Validates the given dep document (qr code) at fon.

#### Declaration

```
public bool CheckDocumentValidatedOnFon(string depDocument)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	depDocument	The document to validate.

#### Returns

Type	Description
<a href="#">bool</a>	True if the given document can be validated; otherwise false.

#### CheckLastSignedDocumentValidatedOnFon()

Validates the last signed document in dep at fon.

#### Declaration

```
public bool CheckLastSignedDocumentValidatedOnFon()
```

#### Returns

Type	Description
<a href="#">bool</a>	True if the last signed line can be validated at fon successfully; False if the last signed line can be validated at fon successfully or the dep store is empty.

#### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

#### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

#### Returns

#### Type Description

[bool](#)

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

#### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### CreateDocument(DocumentType)

Returns the fiscal response for starting the document.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the to be created document.

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[FiscalResponse](#) An empty fiscal response.

**Overrides**

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.CreateDocument\(DocumentType\)](#)

**Remarks**

In Austrian implementation it is not necessary to call [CreateDocument\(DocumentType\)](#), but it can.

**DecommissionClient(Document)**

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

**Declaration**

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

**Parameters**

Type	Name	Description
------	------	-------------

[Document](#) endDocument A document of type [NullReceipt](#) representing the end document of the fiscalisation.

**Returns**

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

**Overrides**

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.DecommissionClient\(Document\)](#)

**ExportDep(DateTime, DateTime)**

Exports all receipt lines of local dep store data.

**Declaration**

```
public Dep ExportDep(DateTime fromDate, DateTime tillDate)
```

**Parameters**

Type	Name	Description
------	------	-------------

[DateTime](#) fromDate The start date of the requested receipts.

[DateTime](#) tillDate The end date of the requested receipts.

**Returns**

Type	Description
------	-------------

[Dep](#) An object of type [RetailForce.Fiscalisation.Implementation.Austria.Dep](#) representing the "Datenerfassungsprotokoll" of RKSV in Austria.

**ExportDep131(DateTime, DateTime, Stream)**

Exports

**Declaration**

```
public void ExportDep131(DateTime fromDate, DateTime tillDate, Stream outputStream)
```

**Parameters**

Type	Name	Description
------	------	-------------

[DateTime](#) fromDate

[DateTime](#) tillDate

[Stream](#) outputStream

**GetCashRegisterActivated(bool)**

Returns whether the cash register of the actual client is activated at fon.

**Declaration**

```
public bool GetCashRegisterActivated(bool expectedResponse)
```

**Parameters**

Type	Name	Description
------	------	-------------

[bool](#) expectedResponse The expected response from fon.

**Returns**

Type	Description
------	-------------

[bool](#) True if the cash register is activated; otherwise false.

**GetCashRegisterActivatedOnFon(FonServiceClient, string, bool)**

Returns whether the cash register is activated on fon or not.

#### Declaration

```
public static BoolResponse GetCashRegisterActivatedOnFon(FonServiceClient fonClient, string uniqueCashRegisterId, bool expectedResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FonServiceClient</a>	fonClient	The fon client to connect (over retailforce portal).
<a href="#">string</a>	uniqueCashRegisterId	The unique id of the cash register.
<a href="#">bool</a>	expectedResponse	The expected response (for fon protocol).

#### Returns

Type	Description
<a href="#">BoolResponse</a>	

**GetDep131Protocol(List<string>, FiscalClient, List<StoredDocument>, DateTime, DateTime, Func<string, (List<StoredDocument>, FiscalClient)>, Stream)**

Writes whole dep 131 protocol to output stream.

#### Declaration

```
public static void GetDep131Protocol(List<string> documentZips, FiscalClient fiscalClient, List<StoredDocument> actualDayDocuments, DateTime fromDate, DateTime tillDate, Func<str:
```

#### Parameters

Type	Name	Description
<a href="#">List&lt;string&gt;</a>	documentZips	A list of document zip files (file names).
<a href="#">FiscalClient</a>	fiscalClient	
<a href="#">List&lt;StoredDocument&gt;</a>	actualDayDocuments	
<a href="#">DateTime</a>	fromDate	The start date of the requested receipts.
<a href="#">DateTime</a>	tillDate	The end date of the requested receipts.
<a href="#">Func&lt;string, (List&lt;StoredDocument&gt;, FiscalClient)&gt;</a>	getZipFile	A function to fetch the content of a single document zip file (to use on client and in cloud).
<a href="#">Stream</a>	outputStream	The output stream to generate the

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentZips</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>outputStream</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if output stream is not marked with <code>CanWrite = true</code> .

**GetDocumentMandatoryFields(Type)**

Returns the mandatory fields for this type for the given country implementation.

#### Declaration

```
public override IReadOnlyList<string> GetDocumentMandatoryFields(Type t)
```

#### Parameters

Type	Name	Description
<a href="#">Type</a>	t	The type to get the mandatory fields.

#### Returns

Type	Description
<a href="#">IReadOnlyList&lt;string&gt;</a>	A list of property names representing the mandatory fields for this country implementation.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)

**GetEncryptedRevenue(string, bool, bool, string, decimal, string)**

Creates the turnover counter in encrypted form (base64 string).

#### Declaration

```
public static string GetEncryptedRevenue(string uniqueCashRegisterId, bool isCancelled, bool isTraining, string documentNr, decimal revenue, string aesKey)
```

#### Parameters

Type	Name	Description
------	------	-------------



Type	Name	Description
<a href="#">string</a>	uniqueCashRegisterId	The unique cash register id for this cash register in austria. Use <a href="#">GetUniqueCashRegisterId()</a> to obtain.
<a href="#">bool</a>	isCancelled	True if the document for which the turnover counter should be calculated is a cancellation document <a href="#">CancellationDocument</a> .
<a href="#">bool</a>	isTraining	True if the document for which the turnover counter should be calculated is a training document <a href="#">IsTraining</a> .
<a href="#">string</a>	documentNr	DocumentNr of the document for which the turnover counter should be calculated.
<a href="#">decimal</a>	revenue	Turnover which should be encrypted.
<a href="#">string</a>	aesKey	The aes key for this cash register.

#### Returns

#### Type Description

[string](#)

**GetLastLineValues(string, ClientConfiguration, out int, out decimal, out DateTimeOffset, out string, out string)**

#### Declaration

```
public static void GetLastLineValues(string lastLine, ClientConfiguration austrianConfiguration, out int documentNr, out decimal actualRevenue, out DateTimeOffset bookDate, out s
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	lastLine	
<a href="#">ClientConfiguration</a>	austrianConfiguration	
<a href="#">int</a>	documentNr	
<a href="#">decimal</a>	actualRevenue	
<a href="#">DateTimeOffset</a>	bookDate	
<a href="#">string</a>	signatureChainValue	
<a href="#">string</a>	signature	

**GetMonthReceipts(DateTime?, DateTime?)**

Returns all month receipts in the requested date frame.

#### Declaration

```
public List<ReceiptLine> GetMonthReceipts(DateTime? fromdate, DateTime? tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime?</a>	fromdate	The start date of the request. If omitted the start date is used as 1-1-2000.
<a href="#">DateTime?</a>	tillDate	The end date of the request. If omitted the till date is used as now.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the month receipts done in the requested period.

**GetSecurityCertificatesActivated(bool)**

Returns all signature devices and if they are activated at fon or not.

#### Declaration

```
public List<SignatureDeviceActivated> GetSecurityCertificatesActivated(bool registerIfNot = false)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	registerIfNot	True to register the configured signature device at fon (only one signature device have to be configured; otherwise this option is ignored).

#### Returns

Type	Description
<a href="#">List&lt;SignatureDeviceActivated&gt;</a>	All signature devices and if they are activated at fon or not.

**GetSignatureDeviceFromConfiguration(SignDeviceConfiguration, ILogger, bool, ProxyConfiguration)**

Returns the device driver for the given configuration.

#### Declaration

```
public static SignBase GetSignatureDeviceFromConfiguration(SignDeviceConfiguration configuration, ILogger logger, bool isTestClient, ProxyConfiguration proxyConfiguration = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">SignDeviceConfiguration</a>	configuration	The configuration for the requested sign device driver.
<a href="#">ILogger</a>	logger	Logger for logging purposes.
<a href="#">bool</a>	isTestClient	True if client is a test client; otherwise false.
ProxyConfiguration	proxyConfiguration	A possible proxy configuration.

#### Returns

Type	Description
------	-------------

[SignBase](#) The sign device driver.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>configuration</code> is set to null.

#### GetStartReceipt()

Returns the start receipt or empty string if client is not initialized.

#### Declaration

```
public string GetStartReceipt()
```

#### Returns

Type	Description
------	-------------

[string](#) The start receipt or empty string if client is not initialized.

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
------	-------------

[string](#) The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### GetUniqueCashRegisterId(string, string)

Returns the unique cashregister id for austria with the correct country separator.

#### Declaration

```
public string GetUniqueCashRegisterId(string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) storeNumber The store number of the client to build the unique cashregister id.

[string](#) terminalNumber The terminal number of the client to build the unique cashregister id.

#### Returns

Type	Description
------	-------------

[string](#) The unique cashregister id for austria with the correct country separator.

#### Remarks

In normal case country separator is '/'. After eFsta import country-separator is '-'. Country separator will be read from dep store at start up.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>storeNumber</code> is set to null or <a href="#">Empty</a> .

[ArgumentNullException](#) Thrown if parameter `terminalNumber` is set to null or [Empty](#).

#### ImportDepJournal(ILogger, Guid, string, string, DepStore, DepCloudStore, string, DateTime?)

Imports a dep journal into dep store.

## Declaration

```
public static void ImportDepJournal(ILogger logger, Guid clientId, string importDepFile, string uniqueCashRegisterId, DepStore depStore, DepCloudStore depCloudStore = null, string
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger to log events.
<a href="#">Guid</a>	clientId	The client id of the unique client to import the dep.
<a href="#">string</a>	importDepFile	The file to import.
<a href="#">string</a>	uniqueCashRegisterId	The unique cash register id for austria for this client.
<a href="#">DepStore</a>	depStore	The dep store to import.
<a href="#">DepCloudStore</a>	depCloudStore	The cloud dep store to import (if null cloud will not be imported).
<a href="#">string</a>	aesKey	The aes key for the client. If set turnover counter will be checked.
<a href="#">DateTime?</a>	startReceiptDateTime	The date and time of the start receipt. If not supplied, the first record is assumed as the start receipt.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importDepFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStore</code> is set to null.
<a href="#">FileNotFoundException</a>	Thrown if the import file given in <code>importDepFile</code> is not found.
<a href="#">InvalidDataException</a>	Thrown if the unique cash register id of the file does not correspond to parameter <code>uniqueCashRegisterId</code> .
<a href="#">InvalidDataException</a>	Thrown if turn over counter at start receipt is not equal 0.

## InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

## Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

## Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

## Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

## Overrides

```
TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.InitializeClient\(Document\)
```

## MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

## Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
------	------	-------------

<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
------------------------	--------	---

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	---

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

[NotSupportedException](#) Thrown if the given service url is not supported for migration.

### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	importFile	The file to import for migration.
------------------------	------------	-----------------------------------

<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
------------------------	--------	---

<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
------------------------	--------	---

<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
------------------------	--------	---

<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
------------------------	--------	---

<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
------------------------	--------	---

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	---

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

[InvalidDataException](#) Thrown if the client is not in state [NotInitialized](#).

[InvalidDataException](#) Thrown if the import file is empty or cannot be read.

[FileNotFoundException](#) Thrown if the given file is not found.

### RecommissioningCashRegister(DateTime)

Recommissioning of cash register system

Declaration

```
public bool RecommissioningCashRegister(DateTime recommitmentDate)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">DateTime</a>	recommitmentDate	The date and time of recommissioning.
--------------------------	------------------	---------------------------------------

Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if was successful (or cash register is already activated); otherwise false.
----------------------	--

### RecommissioningSecurityCertificate(DateTime, long?, bool)

Recommissioning a security certificate at fon (Finanzonline).

Declaration

```
public bool RecommissioningSecurityCertificate(DateTime recommitmentDate, long? certificateSerial = null, bool useConfiguration = true)
```

Parameters

Type	Name	Description
<a href="#">DateTime</a>	recommissionDate	The date and time of recommissioning.
<a href="#">long?</a>	certificateSerial	The certificate serial as long which is searched. If only one security device is configured this is returned.
<a href="#">bool</a>	useConfiguration	True if the certificate should be searched in the configuration; otherwise false.

#### Returns

Type	Description
<a href="#">bool</a>	True if was successful (or cash register is already activated); otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if more than one signature device is configured and parameter <code>certificateSerial</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>useConfiguration</code> is set to true and parameter <code>certificateSerial</code> is null.
<a href="#">KeyNotFoundException</a>	Thrown if the requested signature device is not found or no signature device is configured.

#### RegisterCashRegister()

Register of cash register system at fon for the actual client.

#### Declaration

```
public bool RegisterCashRegister()
```

#### Returns

Type	Description
<a href="#">bool</a>	True if registering was successful (or cash register is already activated); otherwise false.

#### RegisterSecurityCertificate(long?)

Registers the configured signature device at fon (if one is configured) or the signature device identified with `certificateSerial`.

#### Declaration

```
public bool RegisterSecurityCertificate(long? certificateSerial = null)
```

#### Parameters

Type	Name	Description
<a href="#">long?</a>	certificateSerial	The certificate serial as long which is searched. If only one security device is configured this is returned.

#### Returns

Type	Description
<a href="#">bool</a>	True if the register process finished successfully; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if more than one signature device is configured and parameter <code>certificateSerial</code> is set to null.
<a href="#">KeyNotFoundException</a>	Thrown if the requested signature device is not found or no signature device is configured.

#### RestoreByCloudInitializeClient()

This method is called after restore by cloud to do several initialization steps (if necessary).

#### Declaration

```
public override void RestoreByCloudInitializeClient()
```

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)

#### SetCashRegisterActivatedOnFon(FonServiceClient, string, string)

Activates cash register at fon.

#### Declaration

```
public static ResultResponse SetCashRegisterActivatedOnFon(FonServiceClient fonClient, string uniqueCashRegisterId, string aesKey)
```

#### Parameters

Type	Name	Description
<a href="#">FonServiceClient</a>	fonClient	The fon client to connect (over retailforce portal).

Type	Name	Description
<a href="#">string</a>	uniqueCashRegisterId	The unique id of the cash register.
<a href="#">string</a>	aesKey	The generated aes key for this cash register.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	

#### StoreDocument(Document)

Stores a document to the austrian fiscal system.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The fiscal response from the fiscal system.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.StoreDocument\(Document\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>document</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if fiscal client of document ( <a href="#">FiscalClient</a> ) is not set or if fiscal client id does not match client id of document or if <code>clientconfiguration</code> of fiscal client is not an austrian configuration.

#### UnRegisterSecurityCertificate(SecurityCertificateDropoutReason, long?)

Unregisters the configured signature device at fon (if one is configured) or the signature device identified with `certificateSerial`.

#### Declaration

```
public bool UnRegisterSecurityCertificate(SecurityCertificateDropoutReason reason, long? certificateSerial = null)
```

#### Parameters

Type	Name	Description
<a href="#">SecurityCertificateDropoutReason</a>	reason	The drop out reason for unregistering the signature device at fon.
<a href="#">long?</a>	certificateSerial	The certificate serial as long which is searched. If only one security device is configured this is returned.

#### Returns

Type	Description
<a href="#">bool</a>	True if the register process finished successfully; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if more than one signature device is configured and parameter <code>certificateSerial</code> is set to null.
<a href="#">KeyNotFoundException</a>	Thrown if the requested signature device is not found or no signature device is configured.

#### UnregisterCashRegister(CashRegisterDropoutReason?, DateTime?)

Unregister cash register at fon for the actual client.

#### Declaration

```
public bool UnregisterCashRegister(CashRegisterDropoutReason? reason = null, DateTime? fromDate = null)
```

#### Parameters

Type	Name	Description
<a href="#">CashRegisterDropoutReason?</a>	reason	The reason for unregistering; if omitted default value is <a href="#">PlannedDropout</a> .
<a href="#">DateTime?</a>	fromDate	The date of the dropout, has to be set at reason = [1] Stolen, [5] NotWorking, [99] = Others. Default is <code>DateTime.Now</code> .

#### Returns

Type	Description
------	-------------

[bool](#) True if unregistering was successful (or cash register is already unregistered; otherwise false).

#### ValidateDocumentImplementation(Document, bool)

##### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

##### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

##### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

##### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

##### Implements

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Austria.Dep

## Classes

### [BlobDepStore](#)

Blob dep store to read dep data from blob (using memory stream in between).

### [CloudDepStore](#)

### [CloudMonthReceiptDepStore](#)

### [Dep](#)

Representation of the austrian dep (Datenerfassungsprotokoll)

### [Dep131Line](#)

Dep131 line for dep131 export.

### [DepCloudStore](#)

The store of the dep.

### [DepState](#)

Persists the actual state of the dep.

### [DepStore](#)

The store of the dep.

### [DepStoreBase](#)

Base class for dep store (access to dep over streams for file and cloud implementation).

### [ReceiptGroup](#)

Sub-Element of the austrian dep (Datenerfassungsprotokoll)

### [ReceiptLine](#)

Receipt line for rksv-dep (austria)

### [RevenueEncryption](#)

Class library to encrypt the current revenue for the receipt line of the dep ("Umsatzzähler Datenerfassungsprotokoll")

### [SqlDeptStoreDataProvider](#)

## Interfaces

### [IDepStore](#)

### [IDeptStoreDataProvider](#)

### [IMonthReceiptDepStore](#)

## Enums

### [DeptStoreLineType](#)



# Class BlobDepStore

Blob dep store to read dep data from blob (using memory stream in between).

## Inheritance

[object](#)

[TextLineStream](#)

[DepStoreBase](#)

[BlobDepStore](#)

## Inherited Members

[DepStoreBase.EvaluateDepLine\(string, out decimal, out string\)](#)

[DepStoreBase.StoreReceiptLine\(Stream, ReceiptLine, decimal, string\)](#)

[DepStoreBase.StoreReceiptLine\(Stream, string\)](#)

[DepStoreBase.ReadReceiptLines\(Stream\)](#)

[DepStoreBase.ReadFirstReceiptLine\(Stream\)](#)

[DepStoreBase.ReadLastReceiptLine\(Stream, out decimal\)](#)

[DepStoreBase.ReadLastSignedReceiptLine\(Stream\)](#)

[DepStoreBase.ReadFirstUnsignedReceiptLine\(Stream\)](#)

[DepStoreBase.GetCashRegisterCountrySeparator\(Stream, string, string\)](#)

[TextLineStream.ReadFirstLine\(Stream\)](#)

[TextLineStream.ReadLastLine\(Stream, int\)](#)

[TextLineStream.ReadLinesBackwards\(Stream, Func<string, bool>\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BlobDepStore : DepStoreBase
```

## Remarks

Storing to the blob dep store is not using memory stream in between.

## Constructors

### BlobDepStore(Stream)

Constructor.

### Declaration

```
public BlobDepStore(Stream stream)
```

### Parameters

Type	Name	Description
<a href="#">Stream</a>	stream	The blob stream (read) for read operations. Will be copied to memory stream.

## Exceptions

Type	Condition
------	-----------

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>stream</code> is set to null.

## Methods

### GetCashRegisterCountrySeparator(string, string)

Returns the cash register separator for dep store (- or /). / is default and therefore null is returned.

#### Declaration

```
public char? GetCashRegisterCountrySeparator(string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	storeNumber	The store number for the matching algorithm.
<a href="#">string</a>	terminalNumber	The terminal number for the matching algorithm.

#### Returns

Type	Description
<a href="#">char?</a>	The cash register separator for dep store (- or /). / is default and therefore null is returned.

### ReadFirstReceiptLine()

Reads the first line of the dep.

#### Declaration

```
public ReceiptLine ReadFirstReceiptLine()
```

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last line of the dep.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStoreStream</code> is set to null.

### ReadLastLine()

Reads the last line of the stream.

#### Declaration

```
public string ReadLastLine()
```

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[string](#) The last line of the stream.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>stream</code> is set to null.

[ArgumentOutOfRangeException](#) Thrown if parameter `lineNumber` is smaller 0.

### ReadLastReceiptLine()

Returns the last receipt line of the dep.

#### Declaration

```
public ReceiptLine ReadLastReceiptLine()
```

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last receipt line of the dep.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStoreStream</code> is set to null.

### ReadLastReceiptLine(out decimal)

Returns the last receipt line of the dep.

#### Declaration

```
public ReceiptLine ReadLastReceiptLine(out decimal turnoverCounter)
```

#### Parameters

Type	Name	Description
<a href="#">decimal</a>	<code>turnoverCounter</code>	The turnover counter for the read line.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last receipt line of the dep.

#### Exceptions

Type	Condition
------	-----------

**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `depStoreStream` is set to null.

**ReadLastSignedReceiptLine()**

Returns the first signed receipt line reading all lines backwards in the file.

**Declaration**

```
public ReceiptLine ReadLastSignedReceiptLine()
```

**Returns****Type****Description**

[ReceiptLine](#) The first signed receipt line reading all lines backwards in the file.

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `depStoreStream` is set to null.

**ReadLinesBackwards(Func<string, bool>)**

Reads line backwards in the blob.

**Declaration**

```
public void ReadLinesBackwards(Func<string, bool> lineAction)
```

**Parameters****Type****Name****Description**

[Func<string, bool>](#) `lineAction` The action which is called for each line.

# Class CloudDepStore

## Inheritance

[object](#)

CloudDepStore

## Implements

[IDepStore](#)

[IMonthReceiptDepStore](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudDepStore : IDepStore, IMonthReceiptDepStore
```

## Constructors

### CloudDepStore(ILogger, IDeptStoreDataProvider, ICloudServer)

#### Declaration

```
public CloudDepStore(ILogger logger, IDeptStoreDataProvider deptStoreDataProvider, ICloudServer deptStoreCloudServer)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">IDeptStoreDataProvider</a>	deptStoreDataProvider	
<a href="#">ICloudServer</a>	deptStoreCloudServer	

## Methods

### Archive(Guid)

Takes all the data of the current dep to archive dep.

#### Declaration

```
public void Archive(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The id of the client of the dep to archive.

### ArchiveExists(Guid)

Returns whether archive files are existing or not.

#### Declaration

```
public bool ArchiveExists(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The id of the client.
----------------------	----------------	-----------------------

Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if archive; otherwise false.
----------------------	-----------------------------------

**GetCashRegisterCountrySeparator(Guid, string, string)**

Returns the cash register separator for dep store (- or /)

Declaration

```
public char? GetCashRegisterCountrySeparator(Guid uniqueClientId, string storeNumber, string terminalNumber)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The client id of the requested dep.
----------------------	----------------	-------------------------------------

<a href="#">string</a>	storeNumber	The store number of the request.
------------------------	-------------	----------------------------------

<a href="#">string</a>	terminalNumber	The terminal number of the request.
------------------------	----------------	-------------------------------------

Returns

Type	Description
------	-------------

<a href="#">char?</a>	The cash register separator for dep store (- or /).
-----------------------	---

**GetReceiptLinesByDate(Guid, DateTime, DateTime)**

Returns requested receipt lines (from actual dep and archive).

Declaration

```
public List<ReceiptLine> GetReceiptLinesByDate(Guid uniqueClientId, DateTime fromdate, DateTime tillDate)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The client id of the requested receipt lines.
----------------------	----------------	---

<a href="#">DateTime</a>	fromdate	The start date of the request.
--------------------------	----------	--------------------------------

<a href="#">DateTime</a>	tillDate	The end date of the request.
--------------------------	----------	------------------------------

Returns

Type	Description
------	-------------

<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the requested receipt lines.
---	---

**IsEmpty(Guid)**

Returns whether the actual dep store (not closed one's) is empty.

Declaration

```
public bool IsEmpty(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id of the client to check the dep store.

#### Returns

Type	Description
<a href="#">bool</a>	True if the dep store is empty (no record); otherwise false.

#### ReadFirstReceiptLine(Guid)

Returns the first receipt line of the dep.

#### Declaration

```
public ReceiptLine ReadFirstReceiptLine(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id of the client to check the dep store.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	

#### ReadFirstUnsignedReceiptLine(Guid)

Returns the first unsigned receiptLine directly after the last signed receiptLine.

#### Declaration

```
public ReceiptLine ReadFirstUnsignedReceiptLine(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the dep to read.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The unsigned receiptLine directly after the last signed receiptLine.

#### ReadLastLine(Guid)

Returns the last line of the dep store file.

#### Declaration

```
public string ReadLastLine(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the dep to read.

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[string](#) A string representing the last line of the dep.

### ReadLastReceiptLine(Guid, out decimal)

Returns the last receipt line of the dep.

#### Declaration

```
public ReceiptLine ReadLastReceiptLine(Guid uniqueClientId, out decimal actualRevenueSum)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	
<a href="#">decimal</a>	actualRevenueSum	

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	

### ReadLastSignedReceiptline(Guid)

Returns the last valid signed receipt line of the dep.

#### Declaration

```
public ReceiptLine ReadLastSignedReceiptline(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the dep to read.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last valid signed receipt line of the dep (signature is not valid, when signature device was not working properly ("Sicherheitseinrichtung ausgefallen")).

### StoreReceiptLine(Guid, ReceiptLine, decimal, string)

Stores the receipt line to the dep.

#### Declaration

```
public void StoreReceiptLine(Guid uniqueClientId, ReceiptLine receiptLine, decimal revenueSumCalculated, string receiptFlag = "")
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The clientid of the dep to store.
<a href="#">ReceiptLine</a>	receiptLine	The receiptline to store.
<a href="#">decimal</a>	revenueSumCalculated	A decimal representing the actual calculated revenue sum. The revenue sum will be rounded to 2 digits.
<a href="#">string</a>	receiptFlag	An additional flag for the receipt line (for month, year and other receipts).

#### Remarks

ReceiptFlag:



- S ..... start receipt (not implemented)
- C ..... closing receipt
- Myyyymm.. month receipt (or year receipt if last month)

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the given receipt line was not signed ( <a href="#">Signature</a> not set).
<a href="#">ArgumentNullException</a>	Thrown if <code>receiptLine</code> is set to null or <code>uniqueClientId</code> is set to <a href="#">Empty</a> .

#### StoreReceiptLine(Guid, string)

##### Declaration

```
public void StoreReceiptLine(Guid uniqueClientId, string retailforceDepLine)
```

##### Parameters

Type	Name	Description
<a href="#">Guid</a>	<code>uniqueClientId</code>	
<a href="#">string</a>	<code>retailforceDepLine</code>	

#### Implements

[IDepStore](#)

[IMonthReceiptDepStore](#)

# Class CloudMonthReceiptDepStore

## Inheritance

[object](#)

CloudMonthReceiptDepStore

## Implements

[IMonthReceiptDepStore](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CloudMonthReceiptDepStore : IMonthReceiptDepStore
```

## Constructors

### CloudMonthReceiptDepStore(ILogger, IDeptStoreDataProvider)

#### Declaration

```
public CloudMonthReceiptDepStore(ILogger logger, IDeptStoreDataProvider deptStoreDataProvider)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">IDeptStoreDataProvider</a>	deptStoreDataProvider	

## Methods

### GetReceiptLinesByDate(Guid, DateTime, DateTime)

Returns requested receipt lines (from actual dep and archive).

#### Declaration

```
public List<ReceiptLine> GetReceiptLinesByDate(Guid uniqueClientId, DateTime fromdate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the requested receipt lines.
<a href="#">DateTime</a>	fromdate	The start date of the request.
<a href="#">DateTime</a>	tillDate	The end date of the request.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the requested receipt lines.

### StoreReceiptLine(Guid, ReceiptLine, decimal, string)

Stores the receipt line to the dep.

#### Declaration

```
public void StoreReceiptLine(Guid uniqueClientId, ReceiptLine receiptLine, decimal revenueSumCalculated, string receiptFlag = "")
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The clientid of the dep to store.
<a href="#">ReceiptLine</a>	receiptLine	The receiptline to store.
<a href="#">decimal</a>	revenueSumCalculated	A decimal representing the actual calculated revenue sum. The revenue sum will be rounded to 2 digits.
<a href="#">string</a>	receiptFlag	An additional flag for the receipt line (for month, year and other receipts).

#### Remarks

ReceiptFlag:

- S ..... start receipt (not implemented)
- C ..... closing receipt
- Myyyymm.. month receipt (or year receipt if last month)

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the given receipt line was not signed ( <a href="#">Signature</a> not set).
<a href="#">ArgumentNullException</a>	Thrown if <a href="#">receiptLine</a> is set to null or <a href="#">uniqueClientId</a> is set to <a href="#">Empty</a> .

#### Implements

[IMonthReceiptDepStore](#)

# Class Dep

Representation of the austrian dep (Datenerfassungsprotokoll)

## Inheritance

[object](#)

Dep

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Dep
```

## Constructors

### Dep(ReceiptLine[], string, string[])

Constructor.

## Declaration

```
public Dep(ReceiptLine[] receiptLines, string signatureCertificate, string[] certificateOrdinaries)
```

## Parameters

Type	Name	Description
<a href="#">ReceiptLine[]</a>	receiptLines	The receipt groups for the dep ('Datenerfassungsprotokoll').
<a href="#">string</a>	signatureCertificate	The signature certificate. Can be omitted.
<a href="#">string[]</a>	certificateOrdinaries	A string array of certificate issuers. Can be omitted.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>receiptLines</code> is null.

## Properties

### ReceiptGroups

An array of compact representation of receipts.

## Declaration

```
[JsonRequired]  
[JsonProperty("Belege-Gruppe")]  
public ReceiptGroup[] ReceiptGroups { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptGroup[]</a>	

# Class Dep131Line

Dep131 line for dep131 export.

## Inheritance

[object](#)

Dep131Line

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Dep131Line
```

## Properties

### BookDate

The book date of the document.

#### Declaration

```
public string BookDate { get; set; }
```

#### Property Value

### Type Description

[string](#)

### DocumentGuid

The document guid (if set) of the fiscal process.

#### Declaration

```
public Guid? DocumentGuid { get; set; }
```

#### Property Value

### Type Description

[Guid?](#)

### DocumentId

The document id (document number).

#### Declaration

```
public string DocumentId { get; set; }
```

#### Property Value

## Type Description

[string](#)

## DocumentType

The document type of this line. This is the textual representation of [DocumentType](#) enumeration.

### Declaration

```
public string DocumentType { get; set; }
```

### Property Value

## Type Description

[string](#)

## FiscalDocumentNumber

The fiscal document number from the dep line.

### Declaration

```
public string FiscalDocumentNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

## Gross Value

The gross value of the position (or amount of payment position).

### Declaration

```
public decimal? GrossValue { get; set; }
```

### Property Value

## Type Description

[decimal?](#)

## IsTraining

True if the document was a training document; otherwise false.

### Declaration

```
public bool IsTraining { get; set; }
```

### Property Value

## Type Description

[bool](#)

## ItemCaption

The caption of the item (only set at certain positions).

### Declaration

```
public string ItemCaption { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ItemId**

The item id of the position (only set at certain positions).

**Declaration**

```
public string ItemId { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**NetValue**

The net value of the position. Only set at [DocumentPositionItem](#) or [DocumentPositionSubItem](#).

**Declaration**

```
public decimal? NetValue { get; set; }
```

**Property Value**

**Type Description**

[decimal?](#)

**PosNumber**

The position number within the document.

**Declaration**

```
public string PosNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PositionType**

The position type of the position. This is the textual representation of [PositionType](#) enumeration.

**Declaration**

```
public string PositionType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Quantity**

The quantity of the item position.

**Declaration**



```
public decimal? Quantity { get; set; }
```

#### Property Value

#### Type Description

[decimal?](#)

#### QuantityUnit

The quantity unit of the item position.

#### Declaration

```
public string QuantityUnit { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### StoreNumber

The number of the store.

#### Declaration

```
public string StoreNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### TerminalNumber

The number of the terminal in the store.

#### Declaration

```
public string TerminalNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### UniqueClientId

The unique client id of the cash register (retailforce).

#### Declaration

```
public Guid UniqueClientId { get; set; }
```

#### Property Value

#### Type Description

[Guid](#)

#### VatPercent

The vat percent of the item position.

**Declaration**

```
public decimal? VatPercent { get; set; }
```

**Property Value****Type Description**

[decimal?](#)

# Class DepCloudStore

The store of the dep.

## Inheritance

[object](#)  
LoggingBase  
DepCloudStore

## Inherited Members

LoggingBase.\_logger  
LoggingBase.\_logSource  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DepCloudStore : LoggingBase
```

## Constructors

### DepCloudStore(ILogger, string, string, CloudService)

#### Declaration

```
public DepCloudStore(ILogger logger, string accessKey, string accessSecret, CloudService cloudService)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">string</a>	accessKey	
<a href="#">string</a>	accessSecret	
<a href="#">CloudService</a>	cloudService	

## Methods

### StoreReceiptLine(Guid, ReceiptLine, decimal, string)

Stores the receipt line to the dep.

#### Declaration

```
public void StoreReceiptLine(Guid uniqueClientId, ReceiptLine receiptLine, decimal revenueSumCalculated, string receiptFlag = "")
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The uniqueClientId of the dep to store.
<a href="#">ReceiptLine</a>	receiptLine	The receiptLine to store.
<a href="#">decimal</a>	revenueSumCalculated	A decimal representing the actual calculated revenue sum. The revenue sum will be rounded to 2 digits.
<a href="#">string</a>	receiptFlag	An additional receipt flag for the dep line.

## Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the given receipt line was not signed ( <a href="#">Signature</a> not set).
<a href="#">ArgumentNullException</a>	Thrown if <code>receiptLine</code> is set to null or <code>uniqueClientId</code> is set to <a href="#">Empty</a> .

# Class DepState

Persists the actual state of the dep.

## Inheritance

[object](#)

DepState

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DepState
```

## Properties

### ActualRevenue

The current actual revenue of the dep.

#### Declaration

```
public decimal ActualRevenue { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### DocumentNr

The current document number of the dep (equals the last used document number).

#### Declaration

```
public int DocumentNr { get; set; }
```

#### Property Value

##### Type Description

[int](#)

### PreviousSignature

The last signature.

#### Declaration

```
public string PreviousSignature { get; set; }
```

#### Property Value

## Type Description

[string](#)

# Class DepStore

The store of the dep.

## Inheritance

[object](#)  
[TextLineStream](#)  
[DepStoreBase](#)  
DepStore

## Implements

[IDepStore](#)  
[IMonthReceiptDepStore](#)

## Inherited Members

[DepStoreBase.EvaluateDepLine\(string, out decimal, out string\)](#)  
[DepStoreBase.StoreReceiptLine\(Stream, ReceiptLine, decimal, string\)](#)  
[DepStoreBase.StoreReceiptLine\(Stream, string\)](#)  
[DepStoreBase.ReadReceiptLines\(Stream\)](#)  
[DepStoreBase.ReadFirstReceiptLine\(Stream\)](#)  
[DepStoreBase.ReadLastReceiptLine\(Stream, out decimal\)](#)  
[DepStoreBase.ReadLastSignedReceiptLine\(Stream\)](#)  
[DepStoreBase.ReadFirstUnsignedReceiptLine\(Stream\)](#)  
[DepStoreBase.GetCashRegisterCountrySeparator\(Stream, string, string\)](#)  
[TextLineStream.ReadFirstLine\(Stream\)](#)  
[TextLineStream.ReadLastLine\(Stream, int\)](#)  
[TextLineStream.ReadLinesBackwards\(Stream, Func<string, bool>\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class DepStore : DepStoreBase, IDepStore, IMonthReceiptDepStore
```

## Constructors

### DepStore(string, string)

Constructor.

#### Declaration

```
public DepStore(string path, string filename = "")
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	path	The path to the directory where the dep is stored.

<a href="#">string</a>	filename	The file name of the store. Optional. If omitted 'dep.dat'.
------------------------	----------	---

## Methods

### Archive(Guid)

Takes all the data of the current dep to archive dep.

#### Declaration

```
public void Archive(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The id of the client of the dep to archive.

#### ArchiveExists(Guid)

Returns whether archive files are existing or not.

##### Declaration

```
public bool ArchiveExists(Guid uniqueClientId)
```

##### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The id of the client.

##### Returns

Type	Description
------	-------------

[bool](#) True if archive; otherwise false.

#### GetCashRegisterCountrySeparator(Guid, string, string)

Returns the cash register separator for dep store (- or /)

##### Declaration

```
public char? GetCashRegisterCountrySeparator(Guid clientId, string storeNumber, string terminalNumber)
```

##### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) clientId

[string](#) storeNumber The store number of the request.

[string](#) terminalNumber The terminal number of the request.

##### Returns

Type	Description
------	-------------

[char?](#) The cash register separator for dep store (- or /).

#### GetClientDepStoreFilename(Guid)

Returns the file name of the dep store file.

##### Declaration

```
public string GetClientDepStoreFilename(Guid clientId)
```

##### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) clientId The clientId of the requested filename.

##### Returns

Type	Description
------	-------------

[string](#) The file name of the dep store file.

#### GetClientDepStorePath(Guid)

Returns the dep store path for the given client.



#### Declaration

```
public string GetClientDepStorePath(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client for which the dep store path is requested.

#### Returns

Type	Description
<a href="#">string</a>	A string representing the dep store path of the requested client.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

#### GetReceiptLinesByDate(Guid, DateTime, DateTime)

Returns requested receipt lines (from actual dep and archive).

#### Declaration

```
public List<ReceiptLine> GetReceiptLinesByDate(Guid clientId, DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	
<a href="#">DateTime</a>	fromDate	The start date of the request.
<a href="#">DateTime</a>	tillDate	The end date of the request.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the requested receipt lines.

#### IsEmpty(Guid)

Returns whether the actual dep store (not closed one's) is empty.

#### Declaration

```
public bool IsEmpty(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	

#### Returns

Type	Description
<a href="#">bool</a>	True if the dep store is empty (no record); otherwise false.

#### ReadFirstLine(Guid)

#### Declaration

```
public string ReadFirstLine(Guid clientId)
```

#### Parameters

**Type Name Description**

[Guid](#) clientId

**Returns****Type Description**

[string](#)

**ReadFirstReceiptLine(Guid)**

Returns the first receipt line of the dep.

**Declaration**

```
public ReceiptLine ReadFirstReceiptLine(Guid clientId)
```

**Parameters****Type Name Description**

[Guid](#) clientId

**Returns****Type Description**

[ReceiptLine](#)

**ReadFirstUnsignedReceiptLine(Guid)**

Returns the first unsigned receiptLine directly after the last signed receiptLine.

**Declaration**

```
public ReceiptLine ReadFirstUnsignedReceiptLine(Guid clientId)
```

**Parameters****Type Name Description**

[Guid](#) clientId

**Returns****Type Description**

[ReceiptLine](#) The unsigned receiptLine directly after the last signed receiptLine.

**ReadLastLine(Guid)**

Returns the last line of the dep store file.

**Declaration**

```
public string ReadLastLine(Guid clientId)
```

**Parameters****Type Name Description**

[Guid](#) clientId The client id of the dep to read.

**Returns****Type Description**

[string](#) A string representing the last line of the dep.

**ReadLastReceiptLine(Guid, out decimal)**

Returns the last receipt line of the dep.

**Declaration**

```
public ReceiptLine ReadLastReceiptLine(Guid clientId, out decimal actualRevenueSum)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	
<a href="#">decimal</a>	actualRevenueSum	

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	

#### ReadLastSignedReceiptline(Guid)

Returns the last valid signed receipt line of the dep.

#### Declaration

```
public ReceiptLine ReadLastSignedReceiptline(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last valid signed receipt line of the dep (signature is not valid, when signature device was not working properly ("Sicherheitseinrichtung ausgefallen").

#### ReadReceiptLines(Guid)

Returns all receipt lines of the actual dep of the given client.

#### Declaration

```
public List<ReceiptLine> ReadReceiptLines(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the receipt lines are requested.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the receipt lines of the actual dep of the given client.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .

#### ReadReceiptLines(string)

Returns all receipt lines of the given file.

#### Declaration

```
public List<ReceiptLine> ReadReceiptLines(string filename)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	filename	The filename of the file to read.

#### Returns

Type	Description
------	-------------

[List<ReceiptLine>](#) A list of [ReceiptLine](#) objects representing the receipt lines of the given file.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `filename` is set to null or empty string.

[FileNotFoundException](#) Thrown if the file is not found.

### ReadRksvDepFile(string filename, Action<string, int> readLine, Action startGroup = null, Action<int> endGroup = null)

Reads an rksv dep file (json format).

#### Declaration

```
public static void ReadRksvDepFile(string filename, Action<string, int> readLine, Action startGroup = null, Action<int> endGroup = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) filename The filename of the file to read.

[Action<string, int>](#) readLine Action is started at each receipt line which is read, parameter (string = dep line, int = actualPercentage of read process).

[Action](#) startGroup Action which will be started, when a receipt group ("Belege-kompakt") starts. Can be null.

[Action<int>](#) endGroup Action which will be started, when a receipt group ("Belege-kompakt") ends. Can be null.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `filename` is set to null or [Empty](#).

[ArgumentNullException](#) Thrown if parameter `readLine` is set to null.

### StoreReceiptLine(Guid clientId, ReceiptLine receiptLine, decimal revenueSumCalculated, string receiptFlag = "")

Stores the receipt line to the dep.

#### Declaration

```
public void StoreReceiptLine(Guid clientId, ReceiptLine receiptLine, decimal revenueSumCalculated, string receiptFlag = "")
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) clientId

[ReceiptLine](#) receiptLine The receiptline to store.

[decimal](#) revenueSumCalculated A decimal representing the actual calculated revenue sum. The revenue sum will be rounded to 2 digits.

[string](#) receiptFlag An additional flag for the receipt line (for month, year and other receipts).

#### Remarks

ReceiptFlag:

- S ..... start receipt (not implemented)
- C ..... closing receipt
- Myyyyymm.. month receipt (or year receipt if last month)

#### Exceptions

**Type****Condition**

[ArgumentException](#) Thrown if the given receipt line was not signed ([Signature](#) not set).

[ArgumentNullException](#) Thrown if `receiptLine` is set to null or `uniqueClientId` is set to [Empty](#).

**StoreReceiptLine(Guid, string)****Declaration**

```
public void StoreReceiptLine(Guid clientId, string retailforceDepLine)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	
----------------------	----------	--

<a href="#">string</a>	retailforceDepLine	
------------------------	--------------------	--

**Implements**

[IDepStore](#)

[IMonthReceiptDepStore](#)

# Class DepStoreBase

Base class for dep store (access to dep over streams for file and cloud implementation).

## Inheritance

[object](#)

[TextLineStream](#)

[DepStoreBase](#)

[BlobDepStore](#)

[DepStore](#)

## Inherited Members

[TextLineStream.ReadFirstLine\(Stream\)](#)

[TextLineStream.ReadLastLine\(Stream, int\)](#)

[TextLineStream.ReadLinesBackwards\(Stream, Func<string, bool>\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DepStoreBase : TextLineStream
```

## Methods

### EvaluateDepLine(string, out decimal, out string)

Parses given retailforce dep line and returns Base64 encoded dep line.

### Declaration

```
public static string EvaluateDepLine(string depLine, out decimal turnOverCounter, out string receiptFlag)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	depLine	The retailforce dep line to parse.
<a href="#">decimal</a>	turnOverCounter	Out parameter. The turnover counter.
<a href="#">string</a>	receiptFlag	Out parameter. The receipt flag.

### Returns

Type	Description
<a href="#">string</a>	Base64 encoded dep line.

### Remarks

The dep line itself is not parsed (R1-AT1\_... => not parsed).

If you want to create a [ReceiptLine](#) just use overloaded constructor [ReceiptLine.ReceiptLine\(string\)](#).

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depLine</code> is set to null or <a href="#">Empty</a> .
<a href="#">FormatException</a>	Thrown if the given dep line cannot be parsed (invalid format).

### GetCashRegisterCountrySeparator(Stream, string, string)

Returns the cash register separator for dep store (- or /). / is default and therefore null is returned.

#### Declaration

```
protected char? GetCashRegisterCountrySeparator(Stream depStoreStream, string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	depStoreStream	The stream to read.
<a href="#">string</a>	storeNumber	The store number for the matching algorithm.
<a href="#">string</a>	terminalNumber	The terminal number for the matching algorithm.

#### Returns

Type	Description
<a href="#">char?</a>	The cash register separator for dep store (- or /). / is default and therefore null is returned.

### ReadFirstReceiptLine(Stream)

Reads the first line of the dep.

#### Declaration

```
protected ReceiptLine ReadFirstReceiptLine(Stream depStoreStream)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	depStoreStream	The stream to read.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last line of the dep.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStoreStream</code> is set to null.

### ReadFirstUnsignedReceiptLine(Stream)

Returns the unsigned receiptLine directly before the last signed receiptLine.

#### Declaration

```
protected ReceiptLine ReadFirstUnsignedReceiptLine(Stream depStoreStream)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	depStoreStream	The stream to read.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The unsigned receiptLine directly before the last signed receiptLine.

#### Exceptions

Type	Condition
------	-----------

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `depStoreStream` is set to null.

### ReadLastReceiptLine(Stream, out decimal)

Returns the last receipt line of the dep.

#### Declaration

```
protected ReceiptLine ReadLastReceiptLine(Stream depStoreStream, out decimal turnoverCounter)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Stream](#) `depStoreStream` The stream to read.

[decimal](#) `turnoverCounter` The turnover counter for the read line.

#### Returns

Type	Description
------	-------------

[ReceiptLine](#) The last receipt line of the dep.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `depStoreStream` is set to null.

### ReadLastSignedReceiptLine(Stream)

Returns the first signed receipt line reading all lines backwards in the file.

#### Declaration

```
protected ReceiptLine ReadLastSignedReceiptLine(Stream depStoreStream)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Stream](#) `depStoreStream` The stream to read.

#### Returns

Type	Description
------	-------------

[ReceiptLine](#) The first signed receipt line reading all lines backwards in the file.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `depStoreStream` is set to null.

### ReadReceiptLines(Stream)

Reads all receipt lines from the given dep store stream.

#### Declaration

```
protected List<ReceiptLine> ReadReceiptLines(Stream depStoreStream)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Stream](#) `depStoreStream` The stream to read all the receipt lines.



## Returns

Type	Description
------	-------------

<a href="#">List&lt;ReceiptLine&gt;</a>	All receipt lines from the given dep store stream.
---	--

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStoreStream</code> is set to null.
---------------------------------------	---

## StoreReceiptLine(Stream, ReceiptLine, decimal, string)

Stores the given receipt line to the dep (stream).

## Declaration

```
public static void StoreReceiptLine(Stream depStoreStream, ReceiptLine receiptLine, decimal turnoverCounterValue, string receiptFlag = "")
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	<code>depStoreStream</code>	The dep stream to store the receipt line.
------------------------	-----------------------------	---

<a href="#">ReceiptLine</a>	<code>receiptLine</code>	The receipt line to store.
-----------------------------	--------------------------	----------------------------

<a href="#">decimal</a>	<code>turnoverCounterValue</code>	The value of the turnover counter for this receipt line.
-------------------------	-----------------------------------	--

<a href="#">string</a>	<code>receiptFlag</code>	
------------------------	--------------------------	--

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStoreStream</code> is set to null.
---------------------------------------	---

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>receiptFlag</code> is set to null.
---------------------------------------	--

<a href="#">InvalidOperationException</a>	Thrown if stream is not writable.
---	-----------------------------------

## StoreReceiptLine(Stream, string)

Stores the given receipt line to the dep (stream).

## Declaration

```
public static void StoreReceiptLine(Stream depStoreStream, string retailForceDepLine)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	<code>depStoreStream</code>	The dep stream to store the receipt line.
------------------------	-----------------------------	---

<a href="#">string</a>	<code>retailForceDepLine</code>	The dep line to store (retailforce format).
------------------------	---------------------------------	---

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depStoreStream</code> is set to null.
---------------------------------------	---

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>retailForceDepLine</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	---

<a href="#">InvalidOperationException</a>	Thrown if stream is not writable.
---	-----------------------------------

# Enum DeptStoreLineType

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum DeptStoreLineType : byte
```

## Fields

Name	Description
First	
FirstUnsigned	
Last	
LastSigned	

# Interface IDepStore

## Inherited Members

[IMonthReceiptDepStore.StoreReceiptLine\(Guid, ReceiptLine, decimal, string\)](#)  
[IMonthReceiptDepStore.GetReceiptLinesByDate\(Guid, DateTime, DateTime\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IDepStore : IMonthReceiptDepStore
```

## Methods

### Archive(Guid)

Takes all the data of the current dep to archive dep.

#### Declaration

```
void Archive(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The id of the client of the dep to archive.

### ArchiveExists(Guid)

Returns whether archive files are existing or not.

#### Declaration

```
bool ArchiveExists(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The id of the client.

#### Returns

Type	Description
<a href="#">bool</a>	True if archive; otherwise false.

### GetCashRegisterCountrySeparator(Guid, string, string)

Returns the cash register separator for dep store (- or /)

#### Declaration

```
char? GetCashRegisterCountrySeparator(Guid uniqueClientId, string storeNumber, string terminalNumber)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the requested dep.
<a href="#">string</a>	storeNumber	The store number of the request.
<a href="#">string</a>	terminalNumber	The terminal number of the request.

#### Returns

Type	Description
<a href="#">char?</a>	The cash register separator for dep store (- or /).

#### IsEmpty(Guid)

Returns whether the actual dep store (not closed one's) is empty.

#### Declaration

```
bool IsEmpty(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id of the client to check the dep store.

#### Returns

Type	Description
<a href="#">bool</a>	True if the dep store is empty (no record); otherwise false.

#### ReadFirstReceiptLine(Guid)

Returns the first receipt line of the dep.

#### Declaration

```
ReceiptLine ReadFirstReceiptLine(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id of the client to check the dep store.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	

#### ReadFirstUnsignedReceiptLine(Guid)

Returns the first unsigned receiptLine directly after the last signed receiptLine.

#### Declaration

```
ReceiptLine ReadFirstUnsignedReceiptLine(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the dep to read.

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The unsigned receiptLine directly after the last signed receiptLine.

#### ReadLastLine(Guid)

Returns the last line of the dep store file.

#### Declaration

```
string ReadLastLine(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the dep to read.

#### Returns

Type	Description
<a href="#">string</a>	A string representing the last line of the dep.

#### ReadLastReceiptLine(Guid, out decimal)

Returns the last receipt line of the dep.

#### Declaration

```
ReceiptLine ReadLastReceiptLine(Guid uniqueClientId, out decimal actualRevenueSum)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	
<a href="#">decimal</a>	actualRevenueSum	

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	

#### ReadLastSignedReceiptline(Guid)

Returns the last valid signed receipt line of the dep.

### Declaration

```
ReceiptLine ReadLastSignedReceiptline(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The client id of the dep to read.
----------------------	----------------	-----------------------------------

### Returns

Type	Description
<a href="#">ReceiptLine</a>	The last valid signed receipt line of the dep (signature is not valid, when signature device was not working properly ("Sicherheitseinrichtung ausgefallen").

### StoreReceiptLine(Guid, string)

### Declaration

```
void StoreReceiptLine(Guid uniqueClientId, string retailforceDepLine)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	
<a href="#">string</a>	retailforceDepLine	

# Interface IDeptStoreDataProvider

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IDeptStoreDataProvider
```

## Methods

### ClearMetaDataForClient(Guid)

Clear all metadata entries for a client

#### Declaration

```
void ClearMetaDataForClient(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id

### GetLine(Guid, DeptStoreLineType)

returns a line string with a specific type for a client

#### Declaration

```
string GetLine(Guid uniqueClientId, DeptStoreLineType lineType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">DeptStoreLineType</a>	lineType	A <a href="#">DeptStoreLineType</a> for the required lineType

#### Returns

Type	Description
<a href="#">string</a>	The line string if exists for client otherwise null

### GetMonthReceiptLines(Guid, DateTimeOffset, DateTimeOffset)

Returns all month receipts for a client/terminal in the timerange

#### Declaration

```
List<ReceiptLine> GetMonthReceiptLines(Guid uniqueClientId, DateTimeOffset fromDate, DateTimeOffset tillDate)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the requested receipt lines.
<a href="#">DateTimeOffset</a>	fromdate	The start date of the request.
<a href="#">DateTimeOffset</a>	tillDate	The end date of the request.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the requested month receipt lines.

#### GetReceiptLine(Guid, DeptStoreLineType)

returns a [ReceiptLine](#) with a specific type for a client

#### Declaration

```
ReceiptLine GetReceiptLine(Guid uniqueClientId, DeptStoreLineType lineType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">DeptStoreLineType</a>	lineType	A <a href="#">DeptStoreLineType</a> for the required lineType

#### Returns

Type	Description
<a href="#">ReceiptLine</a>	The <a href="#">ReceiptLine</a> if exists for client otherwise null

#### StoreMonthReceiptLine(Guid, string, string, DateTimeOffset)

Stores the month receipt dept entry

#### Declaration

```
void StoreMonthReceiptLine(Guid uniqueClientId, string depData, string receiptFlag, DateTimeOffset bookDate)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">string</a>	depData	The DeptData to store
<a href="#">string</a>	receiptFlag	An additional flag for the receipt line (for month, year and other receipts).



Type	Name	Description
<a href="#">DateTimeOffset</a>	bookDate	Datetime of the month receipt

#### Remarks

ReceiptFlag:

- Myyyymm.. month receipt (or year receipt if last month)

#### StoreReceiptLine(Guid, string, bool)

Stores the metadata for a dept entry

#### Declaration

```
void StoreReceiptLine(Guid uniqueClientId, string retailforceDepLine, bool isSignatureValid)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">string</a>	retailforceDepLine	The DeptData to store
<a href="#">bool</a>	isSignatureValid	Indicator if signature is valid

# Interface IMonthReceiptDepStore

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IMonthReceiptDepStore
```

## Methods

### GetReceiptLinesByDate(Guid, DateTime, DateTime)

Returns requested receipt lines (from actual dep and archive).

#### Declaration

```
List<ReceiptLine> GetReceiptLinesByDate(Guid uniqueClientId, DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the requested receipt lines.
<a href="#">DateTime</a>	fromdate	The start date of the request.
<a href="#">DateTime</a>	tillDate	The end date of the request.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the requested receipt lines.

### StoreReceiptLine(Guid, ReceiptLine, decimal, string)

Stores the receipt line to the dep.

#### Declaration

```
void StoreReceiptLine(Guid uniqueClientId, ReceiptLine receiptLine, decimal revenueSumCalculated, string receiptFlag = "")
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The clientid of the dep to store.
<a href="#">ReceiptLine</a>	receiptLine	The receiptline to store.
<a href="#">decimal</a>	revenueSumCalculated	A decimal representing the actual calculated revenue sum. The revenue sum will be rounded to 2 digits.
<a href="#">string</a>	receiptFlag	An additional flag for the receipt line (for month, year and other receipts).

#### Remarks

ReceiptFlag:

- S ..... start receipt (not implemented)
- C ..... closing receipt
- Myyyymm .. month receipt (or year receipt if last month)

## Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the given receipt line was not signed ( <a href="#">Signature</a> not set).
<a href="#">ArgumentNullException</a>	Thrown if <code>receiptLine</code> is set to null or <code>uniqueClientId</code> is set to <a href="#">Empty</a> .

# Class ReceiptGroup

Sub-Element of the austrian dep (Datenerfassungsprotokoll)

## Inheritance

[object](#)

ReceiptGroup

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReceiptGroup
```

## Constructors

### ReceiptGroup(ReceiptLine[])

Constructor.

## Declaration

```
public ReceiptGroup(ReceiptLine[] receiptLines)
```

## Parameters

Type	Name	Description
<a href="#">ReceiptLine</a> []	receiptLines	The receipt lines for this receipt group.

## Properties

### CertificateOrdinaries

The ordinaries for the certificates.

## Declaration

```
[JsonRequired]  
[JsonProperty("Zertifizierungsstellen")]  
public string[] CertificateOrdinaries { get; set; }
```

## Property Value

### Type Description

[string](#)[]

## Remarks

Can be empty and will be empty in this implementation (is allowed).

## Receipts

All receipts in base64 encoding

### Declaration

```
[JsonRequired]  
[JsonProperty("Belege-kompakt")]  
public string[] Receipts { get; }
```

### Property Value

#### Type Description

[string\[\]](#)

## SignatureCertificate

The signature certificate for this group.

### Declaration

```
[JsonRequired]  
[JsonProperty("Signaturzertifikat")]  
public string SignatureCertificate { get; set; }
```

### Property Value

#### Type Description

[string](#)

### Remarks

Can be empty and will be empty in this implementation (is allowed).

# Class ReceiptLine

Receipt line for rksv-dep (austria)

## Inheritance

[object](#)  
ReceiptLine

## Implements

[IEquatable<ReceiptLine>](#)

## Inherited Members

[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class ReceiptLine : IEquatable<ReceiptLine>
```

## Constructors

**ReceiptLine(SecurityCertificateIssuer, string, int, DateTimeOffset, decimal, decimal, decimal, decimal, decimal, string, string, string)**

Constructor.

## Declaration

```
public ReceiptLine(SecurityCertificateIssuer certificateIssuer, string cashRegisterUniqueId, int fiscalDocumentNr, DateTimeOffset bookDate, decimal revenueNormalVat, decimal reve:
```

## Parameters

Type	Name	Description
<a href="#">SecurityCertificateIssuer</a>	certificateIssuer	
<a href="#">string</a>	cashRegisterUniqueId	
<a href="#">int</a>	fiscalDocumentNr	
<a href="#">DateTimeOffset</a>	bookDate	
<a href="#">decimal</a>	revenueNormalVat	
<a href="#">decimal</a>	revenueReducedVat1	
<a href="#">decimal</a>	revenueReducedVat2	
<a href="#">decimal</a>	revenueNoVat	
<a href="#">decimal</a>	revenueSpecialVat	
<a href="#">string</a>	revenueEncrypted	
<a href="#">string</a>	certificate	
<a href="#">string</a>	previousSignature	

## ReceiptLine(string)

Constructor.

## Declaration

```
public ReceiptLine(string retailForceDepLine)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	retailForceDepLine	Dep line in rf format (including attached turnOverCounter and receiptLineFlag)

**ReceiptLine(string, int, DateTimeOffset, decimal, decimal, decimal, decimal, decimal, string, string)**

## Declaration

```
public ReceiptLine(string cashRegisterUniqueId, int fiscalDocumentNr, DateTimeOffset bookDate, decimal revenueNormalVat, decimal revenueReducedVat1, decimal revenueReducedVat2, d:
```

## Parameters

Type	Name	Description
<a href="#">string</a>	cashRegisterUniqueId	
<a href="#">int</a>	fiscalDocumentNr	
<a href="#">DateTimeOffset</a>	bookDate	
<a href="#">decimal</a>	revenueNormalVat	
<a href="#">decimal</a>	revenueReducedVat1	
<a href="#">decimal</a>	revenueReducedVat2	
<a href="#">decimal</a>	revenueNoVat	
<a href="#">decimal</a>	revenueSpecialVat	
<a href="#">string</a>	revenueEncrypted	
<a href="#">string</a>	previousSignature	

**ReceiptLine(string, int, DateTimeOffset, string, string)**

Creates a receipt line for a null receipt (missing revenues).

## Declaration

```
public ReceiptLine(string cashRegisterUniqueId, int fiscalDocumentNr, DateTimeOffset bookDate, string revenueEncrypted, string previousSignature)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	cashRegisterUniqueIid	
<a href="#">int</a>	fiscalDocumentNr	
<a href="#">DateTimeOffset</a>	bookDate	
<a href="#">string</a>	revenueEncrypted	
<a href="#">string</a>	previousSignature	

**ReceiptLine(string, string, bool)**

#### Declaration

```
public ReceiptLine(string depLine, string receiptFlag, bool ownReceiptNr = true)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	depLine	The whole dep line (not the rf dep line format including turnover counter and receiptline flag).
<a href="#">string</a>	receiptFlag	
<a href="#">bool</a>	ownReceiptNr	

#### Properties

##### BookDate

Returns the book date of the last receipt line.

#### Declaration

```
public DateTime BookDate { get; }
```

#### Property Value

Type	Description
<a href="#">DateTime</a>	

##### CashRegisterId

Returns the cash register id for this receipt line.

#### Declaration

```
public string CashRegisterId { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

##### Certificate

The certificate serial as serial hex value (string).

#### Declaration

```
public string Certificate { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Remarks

You can convert this property to [CertificateSerial](#) with method `Fiscalisation.Signing.Certificate.GetSecurityCertificateSerialFromHex`.

##### CertificateIssuer

The certificate issuer as string (AT1, AT2).

#### Declaration

```
public string CertificateIssuer { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

##### FiscalDocumentNr

Returns the fiscal document nr of the receipt line.

#### Declaration

```
public int FiscalDocumentNr { get; }
```

#### Property Value

Type	Description
<a href="#">int</a>	

##### FiscalDocumentNrString

Returns the fiscal document number in string representation (as stored in the dep).

#### Declaration

```
public string FiscalDocumentNrString { get; }
```

Property Value

#### Type Description

[string](#)

#### IsNullReceipt

True if all revenue values are 0; otherwise false.

#### Declaration

```
public bool IsNullReceipt { get; }
```

Property Value

#### Type Description

[bool](#)

#### PreviousSignature

The signature of the previous dep record.

#### Declaration

```
public string PreviousSignature { get; }
```

Property Value

#### Type Description

[string](#)

#### QrCode

Returns the qr code representation of the receipt line.

#### Declaration

```
public string QrCode { get; }
```

Property Value

#### Type Description

[string](#)

#### ReceiptFlag

#### Declaration

```
public string ReceiptFlag { get; }
```

Property Value

#### Type Description

[string](#)

#### RevenueEncrypted

Returns the encrypted revenue (base64 encoded as well).

#### Declaration

```
public string RevenueEncrypted { get; }
```

Property Value

#### Type Description

[string](#)

#### RevenueLine

Revenue of the whole dep record.

#### Declaration

```
public decimal RevenueLine { get; }
```

Property Value

#### Type Description

[decimal](#)

#### RevenueNoVat

Revenue of type no vat.

#### Declaration

```
public decimal RevenueNoVat { get; }
```

Property Value

#### Type Description

[decimal](#)

#### RevenueNormalVat

Revenue of type normal vat.

#### Declaration



```
public decimal RevenueNormalVat { get; }
```

#### Property Value

##### Type Description

[decimal](#)

#### RevenueReducedVat1

Revenue of type reduced vat 1.

#### Declaration

```
public decimal RevenueReducedVat1 { get; }
```

#### Property Value

##### Type Description

[decimal](#)

#### RevenueReducedVat2

Revenue of type reduced vat 2.

#### Declaration

```
public decimal RevenueReducedVat2 { get; }
```

#### Property Value

##### Type Description

[decimal](#)

#### RevenueSpecialVat

Revenue of type special vat.

#### Declaration

```
public decimal RevenueSpecialVat { get; }
```

#### Property Value

##### Type Description

[decimal](#)

#### Signature

Returns the signature for this receipt line.

#### Declaration

```
public string Signature { get; }
```

#### Property Value

##### Type Description

[string](#)

#### SignatureChainValue

Returns the sha256 base64 (first 8 bytes) encoded hash value for the [ToCompactDepString\(\)](#)

#### Declaration

```
public string SignatureChainValue { get; }
```

#### Property Value

##### Type Description

[string](#)

#### SignatureValid

Returns true if the signature of this receipt line is valid (signed by signature device); otherwise false.

#### Declaration

```
public bool SignatureValid { get; }
```

#### Property Value

##### Type Description

[bool](#)

#### Methods

##### ComputeJwsPayloadHash()

Computes the 256 bit jws payload hash for signing.

#### Declaration

```
public byte[] ComputeJwsPayloadHash()
```

#### Returns

##### Type Description

[byte\[\]](#) A byte array representing the 256 bit hash of jws payload.

### Equals(ReceiptLine)

Returns whether the other [ReceiptLine](#) equals this one.

#### Declaration

```
public bool Equals(ReceiptLine other)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptLine</a>	other	The other <a href="#">ReceiptLine</a> .

#### Returns

Type	Description
<a href="#">bool</a>	True if the other <a href="#">ReceiptLine</a> equals this <a href="#">ReceiptLine</a> ; otherwise false.

### Equals(object)

Returns whether the other [ReceiptLine](#) equals this one.

#### Declaration

```
public override bool Equals(object obj)
```

#### Parameters

Type	Name	Description
<a href="#">object</a>	obj	The other <a href="#">ReceiptLine</a> .

#### Returns

Type	Description
<a href="#">bool</a>	True if the other <a href="#">ReceiptLine</a> equals this <a href="#">ReceiptLine</a> ; otherwise false.

#### Overrides

[object.Equals\(object\)](#)

### GetChainValue(string)

Returns the sha256 base64 (first 8 bytes) encoded hash value for `valueToChain`.

#### Declaration

```
public static string GetChainValue(string valueToChain)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	valueToChain	The value to hash.

#### Returns

Type	Description
<a href="#">string</a>	The sha256 base64 (first 8 bytes) encoded hash value for <code>valueToChain</code> .

### GetFiscalDocumentNrAsString(int)

#### Declaration

```
public static string GetFiscalDocumentNrAsString(int fiscalDocumentNr)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNr	

#### Returns

Type	Description
<a href="#">string</a>	

### GetFiscalDocumentNrFromString(string)

#### Declaration

```
public static int GetFiscalDocumentNrFromString(string fiscalDocumentNrString)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	fiscalDocumentNrString	

#### Returns

Type	Description
<a href="#">int</a>	

### GetRevenue(string, string, out string)

Returns the revenue (revenue sum calculation) from the given encrypted revenue.

#### Declaration

```
public decimal GetRevenue(string revenueEncrypted, string aesKey, out string message)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	revenueEncrypted	The encrypted and base64 encoded revenue.
<a href="#">string</a>	aesKey	A string representing the aes key for decryption.
<a href="#">string</a>	message	A string representing the message ("TRA" for Training, "STO" vor voided documents) of the revenue sum calculation. In this case no revenue is returned (0).

#### Returns

Type	Description
<a href="#">decimal</a>	A decimal representing the revenue (revenue sum calculation) of the given encrypted revenue.

### GetRevenue(string, out string)

Returns the revenue (revenue sum calculation) from the encrypted revenue of this line.

#### Declaration

```
public decimal GetRevenue(string aesKey, out string message)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	aesKey	A string representing the aes key for decryption.
<a href="#">string</a>	message	A string representing the message ("TRA" for Training, "STO" vor voided documents) of the revenue sum calculation.

#### Returns

Type	Description
<a href="#">decimal</a>	A decimal representing the revenue (revenue sum calculation) of this receipt line.

### ResolveDepLine(string, out string, out string)

Matches an original dep line (base64 encoded from standardized dep format, not internal rf format).

#### Declaration

```
public static bool ResolveDepLine(string depLineString, out string receiptLine, out string signature)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	depLineString	The string to match.
<a href="#">string</a>	receiptLine	The receipt line (converted from base64 to clear text).
<a href="#">string</a>	signature	The signature of this receiptline.

#### Returns

Type	Description
<a href="#">bool</a>	True if the match was successful; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depLineString</code> is set to null or <a href="#">Empty</a> .

### ToJwsPayload()

Returns the jws payload for signing of the receipt string.

#### Declaration

```
public string ToJwsPayload()
```

#### Returns

Type	Description
<a href="#">string</a>	

### ToString()

Returns the string representation of this object.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

[string](#) The string representation of this object, in this case the rksv dep receipt line.

#### Overrides

[object.ToString\(\)](#)

#### Operators

**operator ==(ReceiptLine, ReceiptLine)**

#### Declaration

```
public static bool operator ==(ReceiptLine receiptLine1, ReceiptLine receiptLine2)
```

#### Parameters

Type	Name	Description
------	------	-------------

[ReceiptLine](#) receiptLine1

[ReceiptLine](#) receiptLine2

#### Returns

**Type Description**

[bool](#)

**operator !=(ReceiptLine, ReceiptLine)**

#### Declaration

```
public static bool operator !=(ReceiptLine receiptLine1, ReceiptLine receiptLine2)
```

#### Parameters

Type	Name	Description
------	------	-------------

[ReceiptLine](#) receiptLine1

[ReceiptLine](#) receiptLine2

#### Returns

**Type Description**

[bool](#)

#### Implements

[IEquatable<T>](#)

# Class RevenueEncryption

Class library to encrypt the current revenue for the receipt line of the dep ("Umsatzzähler Datenerfassungprotokoll")

## Inheritance

[object](#)

RevenueEncryption

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RevenueEncryption
```

## Methods

### Decrypt(byte[], string, string, byte[])

Decryptes the revenue according to the regulations in austrian law (RKSV).

#### Declaration

```
public static long Decrypt(byte[] data, string cashRegisterId, string receiptNumber, byte[] aesKey)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	data	A byte array representing the encrypted revenue.
<a href="#">string</a>	cashRegisterId	The identification of the cash register.
<a href="#">string</a>	receiptNumber	The receipt number of the current receipt.
<a href="#">byte[]</a>	aesKey	The aes key for this cash register.

#### Returns

Type	Description
<a href="#">long</a>	The revenue in euro cents (23.45 EUR = 2345).

### DecryptBase64(string, string, string, byte[])

Decryptes the revenue from base64 string according to the regulations in austrian law (RKSV).

#### Declaration

```
public static long DecryptBase64(string data, string cashRegisterId, string receiptNumber, byte[] aesKey)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	data	A string representing the encrypted revenue a base64 encoded string.
<a href="#">string</a>	cashRegisterId	The identification of the cash register.
<a href="#">string</a>	receiptNumber	The receipt number of the current receipt.
<a href="#">byte[]</a>	aesKey	The aes key for this cash register.

#### Returns

Type	Description
<a href="#">long</a>	The revenue in euro cents (23.45 EUR = 2345).

#### Encrypt(long, string, string, byte[])

Encryptes the revenue according to the regulations in austrian law (RKSV).

#### Declaration

```
public static byte[] Encrypt(long revenue, string cashRegisterId, string receiptNumber, byte[] aesKey)
```

#### Parameters

Type	Name	Description
<a href="#">long</a>	revenue	The revenue in euro cents (23.45 EUR = 2345).
<a href="#">string</a>	cashRegisterId	The identification of the cash register.
<a href="#">string</a>	receiptNumber	The receipt number of the current receipt.
<a href="#">byte[]</a>	aesKey	The aes key for this cash register.

#### Returns

Type	Description
<a href="#">byte[]</a>	A byte representing the encrypted revenue.

#### EncryptBase64(long, string, string, byte[])

Encryptes the revenue according to the regulations in austrian law (RKSV) in base64 encoding.

#### Declaration

```
public static string EncryptBase64(long revenue, string cashRegisterId, string receiptNumber, byte[] aesKey)
```

#### Parameters

Type	Name	Description
<a href="#">long</a>	revenue	The revenue in euro cents (23.45 EUR = 2345).
<a href="#">string</a>	cashRegisterId	The identification of the cash register.
<a href="#">string</a>	receiptNumber	The receipt number of the current receipt.
<a href="#">byte[]</a>	aesKey	The aes key for this cash register.

#### Returns

Type	Description
<a href="#">string</a>	A string representing the encrypted revenue (base64).

#### FromBase64Key(string)

Returns a 256 bytes aes symmetric key for revenue encryption from string.

#### Declaration

```
public static byte[] FromBase64Key(string base64Key)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	base64Key	The string representing the aes key in base64 representation.

#### Returns

Type	Description
<a href="#">byte[]</a>	A byte array containing the base64 key.

#### GenerateBase64Key()

Generates a 256 bytes aes symmetric key for revenue encryption. (Aes Key for fiscalisation).

#### Declaration

```
public static string GenerateBase64Key()
```

#### Returns

Type	Description
<a href="#">string</a>	The key as base64 encoded string.

#### GenerateKey()

Generates a 256 bytes aes symmetric key for revenue encryption.

#### Declaration

```
public static byte[] GenerateKey()
```

## Returns

Type	Description
------	-------------

<a href="#">byte</a> []	The key as byte array.
-------------------------	------------------------



# Class SqlDeptStoreDataProvider

## Inheritance

[object](#)

SqlDeptStoreDataProvider

## Implements

[IDeptStoreDataProvider](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Dep](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SqlDeptStoreDataProvider : IDeptStoreDataProvider
```

## Constructors

### SqlDeptStoreDataProvider(ILogger, string)

Constructor.

#### Declaration

```
public SqlDeptStoreDataProvider(ILogger logger, string connectionString)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	A <a href="#">ILogger</a> for logging
<a href="#">string</a>	connectionString	The connection string for the database connection.

## Methods

### ClearMetadataForClient(Guid)

Clear all metadata entries for a client

#### Declaration

```
public void ClearMetadataForClient(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id

### GetLine(Guid, DeptStoreLineType)

returns a line string with a specific type for a client

#### Declaration

```
public string GetLine(Guid uniqueClientId, DeptStoreLineType lineType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">DeptStoreLineType</a>	lineType	A <a href="#">DeptStoreLineType</a> for the required lineType

#### Returns

Type	Description
<a href="#">string</a>	The line string if exists for client otherwise null

#### GetMonthReceiptLines(Guid, DateTimeOffset, DateTimeOffset)

Returns all month receipts for a client/terminal in the timerange

#### Declaration

```
public List<ReceiptLine> GetMonthReceiptLines(Guid uniqueClientId, DateTimeOffset fromdate, DateTimeOffset tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The client id of the requested receipt lines.
<a href="#">DateTimeOffset</a>	fromdate	The start date of the request.
<a href="#">DateTimeOffset</a>	tillDate	The end date of the request.

#### Returns

Type	Description
<a href="#">List&lt;ReceiptLine&gt;</a>	A list of <a href="#">ReceiptLine</a> objects representing the requested month receipt lines.

#### GetReceiptLine(Guid, DeptStoreLineType)

returns a [ReceiptLine](#) with a specific type for a client

#### Declaration

```
public ReceiptLine GetReceiptLine(Guid uniqueClientId, DeptStoreLineType lineType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">DeptStoreLineType</a>	lineType	A <a href="#">DeptStoreLineType</a> for the required lineType

## Returns

Type	Description
------	-------------

[ReceiptLine](#) The [ReceiptLine](#) if exists for client otherwise null

## StoreMonthReceiptLine(Guid, string, string, DateTimeOffset)

Stores the month receipt dept entry

### Declaration

```
public void StoreMonthReceiptLine(Guid uniqueClientId, string depData, string receiptFlag, DateTimeOffset bookDate)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">string</a>	depData	The DeptData to store
<a href="#">string</a>	receiptFlag	An additional flag for the receipt line (for month, year and other receipts).
<a href="#">DateTimeOffset</a>	bookDate	Datetime of the month receipt

### Remarks

ReceiptFlag:

- Myyyyymm.. month receipt (or year receipt if last month)

## StoreReceiptLine(Guid, string, bool)

Stores the metadata for a dept entry

### Declaration

```
public void StoreReceiptLine(Guid uniqueClientId, string retailforceDepLine, bool isSignatureValid)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	A Guid within the unique client id / terminal id
<a href="#">string</a>	retailforceDepLine	The DeptData to store
<a href="#">bool</a>	isSignatureValid	Indicator if signature is valid

## Implements

[IDeptStoreDataProvider](#)

# Namespace RetailForce.Fiscalisation.Implementation.Austria.FonService

## Classes

### [FonServiceClient](#)

Client for "Finanzonline Österreich"

### [FonStatus](#)

Represents the status of the client at fon (Finanzoline).

## Enums

### [CashRegisterDropoutReason](#)

### [RequestType](#)

The type of the service request.

### [SecurityCertificateDropoutReason](#)

Represents the reason because of a security certificate is dropped out.

### [SecurityCertificateIssuer](#)

Represents the issuer of the certificate.

### [SecurityCertificateType](#)

Represents the type of the security certificate.

# Enum CashRegisterDropoutReason

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter (typeof (StringEnumConverter))]  
[TypeConverter (typeof (EnumMemberEnumConverter))]  
public enum CashRegisterDropoutReason
```

## Fields

Name	Description
NotWorking	
Others	
PlannedDropout	
Stolen	
Unrepairable	

# Class FonServiceClient

Client for "Finanzonline Österreich"

## Inheritance

[object](#)

FonServiceClient

## Implements

[IDisposable](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FonServiceClient : IDisposable
```

## Remarks

The credentials here used are credentials for the "Registrierkassen-Benutzer" for Finanzonline.

## Constructors

**FonServiceClient(Guid, CloudConnector, string, string, bool)**

Constructor.

## Declaration

```
public FonServiceClient(Guid uniqueClientId, CloudConnector cloudConnector, string cloudApiKey = "", string cloudApiSecret = "", bool isTest = false)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The clientId of the connection.
<a href="#">CloudConnector</a>	cloudConnector	The connector to the retailforce cloud system.
<a href="#">string</a>	cloudApiKey	The api key to access the retailforce cloud system. Optional, only needed if fon access is wanted.
<a href="#">string</a>	cloudApiSecret	The api secret to access the retailforce cloud system. Optional, only needed if fon access is wanted.
<a href="#">bool</a>	isTest	True if the request should be done in test mode; otherwise false. Default is false.

## Remarks

Credentials are stored in the cloud. To check if connection can be done, call property [AccessAllowed](#).

If parameter `cloudApiKey` or `cloudApiSecret` are not set, fon access is disabled.

## Properties

### AccessAllowed

Returns whether fon access is possible or not.

## Declaration

```
public bool AccessAllowed { get; }
```

## Property Value

### Type Description

[bool](#)

## Remarks

To access fon depends on following items:

- fon credentials are stored correct in the cloud
- client has fon access license

## Methods

### Authenticate()

Authentication to cloud connector (stored).

## Declaration

```
public void Authenticate()
```

### CheckDocumentValidation(string)

Does document validation on fon service.

#### Declaration

```
public BoolResponse CheckDocumentValidation(string depDocument)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	depDocument	Qr Code of the document to check.

#### Returns

Type	Description
<a href="#">BoolResponse</a>	True if validation was successful; otherwise false. Also message from service (if applicable) is returned

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>depDocument</code> is set to null or empty string.

#### ClearCloudFonCache()

Clears the cloud fon cache.

#### Declaration

```
public BoolResponse ClearCloudFonCache()
```

#### Returns

Type	Description
<a href="#">BoolResponse</a>	True if deletion was successful; otherwise false.

#### Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

#### Declaration

```
public void Dispose()
```

#### GetCashRegisterActivated(string, bool)

Checks the cash register state with the FON Service.

#### Declaration

```
public BoolResponse GetCashRegisterActivated(string cashRegisterId, bool expectedResponse)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cashRegisterId	The client for which the request is done.
<a href="#">bool</a>	expectedResponse	A bool representing the expected response for this call.

#### Returns

Type	Description
<a href="#">BoolResponse</a>	True if the cash register is "IN BETRIEB"; otherwise false. Also a message is returned by the function from the fon service.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cashRegisterId</code> is set to null or empty string.

#### GetSecurityCertificateActivated(long, bool)

Returns true if the given security certificate is activated (IN\_BETRIEB) at fon (Finanzonline). You have to be authenticated.

#### Declaration

```
public BoolResponse GetSecurityCertificateActivated(long securityCertificate, bool expectedResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">long</a>	securityCertificate	The certificate id of the security certificate to check.
<a href="#">bool</a>	expectedResponse	A bool representing the expected response for this call.

#### Returns

Type	Description
<a href="#">BoolResponse</a>	True if the given security certificate is activated (IN_BETRIEB) at fon (Finanzonline). You have to be authenticated.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	thrown if parameter securityCertificate is set to 0.

#### RecommissioningCashRegister(string, DateTime, DateTime?)

Recommissioning of cash register system

#### Declaration

```
public ResultResponse RecommissioningCashRegister(string cashRegisterId, DateTime recommissionDate, DateTime? requestDateTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cashRegisterId	A string representing the unique cash register id.
<a href="#">DateTime</a>	recommissionDate	The date and time of recommissioning.
<a href="#">DateTime?</a>	requestDateTime	The datetime of the request.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	The result code according to fon documentation.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter cashRegisterId is set to null or empty string.
<a href="#">SecurityException</a>	Thrown if no authentication was not done before.

#### RecommissioningSecurityCertificate(long, DateTime, DateTime?)

Recommissioning a security certificate at fon (Finanzonline). You have to be authenticated.

#### Declaration

```
public ResultResponse RecommissioningSecurityCertificate(long securityCertificate, DateTime recommissionDate, DateTime? requestDateTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">long</a>	securityCertificate	The certificate to register.
<a href="#">DateTime</a>	recommissionDate	The date and time of recommissioning.
<a href="#">DateTime?</a>	requestDateTime	The datetime of the request.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	The result code according to fon documentation.

#### Exceptions

Type	Condition
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	thrown if parameter securityCertificate is set to 0.

#### RegisterCashRegister(string, string, DateTime?)



Register of cashregister system.

#### Declaration

```
public ResultResponse RegisterCashRegister(string cashRegisterId, string aesKey, DateTime? requestDateTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cashRegisterId	A string representing the unique cashregister id.
<a href="#">string</a>	aesKey	A string representing the base 64 encoded aes key security key of the cash register.
<a href="#">DateTime?</a>	requestDateTime	The datetime of the request.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	The result code and message according to fon documentation.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cashRegisterId</code> or parameter <code>aesKey</code> is set to null or empty string.

#### RegisterSecurityCertificate(long, SecurityCertificateType, SecurityCertificateIssuer, DateTime?)

Register a security certificate at fon (Finanzonline). You have to be authenticated.

#### Declaration

```
public ResultResponse RegisterSecurityCertificate(long securityCertificate, SecurityCertificateType certificateType, SecurityCertificateIssuer issuer, DateTime? requestDateTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">long</a>	securityCertificate	The certificate to register.
<a href="#">SecurityCertificateType</a>	certificateType	The type of the certificate.
<a href="#">SecurityCertificateIssuer</a>	issuer	The issuer of the certificate.
<a href="#">DateTime?</a>	requestDateTime	The datetime of the request.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	The result code and message according to fon documentation.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	thrown if parameter <code>securityCertificate</code> is set to 0.

#### SendInitializedMessage(string, string, string)

Sends the initialization message to the contact of the terminal.

#### Declaration

```
public void SendInitializedMessage(string terminalNumber, string storeNumber, string storeName)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	terminalNumber	The terminal number.
<a href="#">string</a>	storeNumber	The store number.
<a href="#">string</a>	storeName	The store name.

#### SignOut()

Logout for cloud connector.

#### Declaration

```
public void SignOut()
```

#### Remarks

Removes the server cache before signing out.

#### UnregisterCashRegister(string, CashRegisterDropoutReason, DateTime?, DateTime?)

Unregister cash register at fon service.

#### Declaration

```
public ResultResponse UnregisterCashRegister(string cashRegisterId, CashRegisterDropoutReason reason, DateTime? fromDate = null, DateTime? requestDateTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	cashRegisterId	The client for which the request is done.
<a href="#">CashRegisterDropoutReason</a>	reason	Reason for cash register dropout. Attention: just permanent dropout reasons are allowed.
<a href="#">DateTime?</a>	fromDate	The date of the dropout, has to be set at reason = [1] Stolen, [5] NotWorking, [99]= Others. Default is DateTime.Now.
<a href="#">DateTime?</a>	requestDateTime	The datetime of the request.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	The result code and message according to fon documentation.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cashRegisterId</code> is set to null or empty string.

#### UnregisterSecurityCertificate(long, SecurityCertificateDropoutReason, DateTime?, DateTime?)

Unregister a security certificate at fon (Finanzonline). You have to be authenticated.

#### Declaration

```
public ResultResponse UnregisterSecurityCertificate(long securityCertificate, SecurityCertificateDropoutReason reason, DateTime? fromDate = null, DateTime? requestDateTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">long</a>	securityCertificate	The certificate to unregister.
<a href="#">SecurityCertificateDropoutReason</a>	reason	The reason of the dropout.
<a href="#">DateTime?</a>	fromDate	The date of the dropout, has to be set at reason = [1] Stolen, [2] NotWorking, [99]= Others.
<a href="#">DateTime?</a>	requestDateTime	The datetime of the request.

#### Returns

Type	Description
<a href="#">ResultResponse</a>	The result code and message according to fon documentation.

#### Exceptions

Type	Condition
<a href="#">LicenseException</a>	Thrown if given client has not fon connection license.
<a href="#">SecurityException</a>	Thrown if nobody is authenticated to the service.
<a href="#">ArgumentNullException</a>	thrown if parameter <code>securityCertificate</code> is set to 0.

#### Implements

[IDisposable](#)

# Class FonStatus

Represents the status of the client at fon (Finanzoline).

## Inheritance

[object](#)

FonStatus

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FonStatus
```

## Properties

### FiscalClientRegistered

#### Declaration

```
public bool FiscalClientRegistered { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### LastDocumentValidation

#### Declaration

```
public bool LastDocumentValidation { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### StartDocumentValidation

#### Declaration

```
public bool StartDocumentValidation { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

# Enum RequestType

The type of the service request.

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum RequestType
```

## Fields

Name	Description
RegisterCashRegister	
RegisterSecurityCertificate	
SetCashRegisterState	
StateSecurityCertificateState	
UnregisterCashRegister	
UnregisterSecurityCertificate	
Validation	

# Enum SecurityCertificateDropoutReason

Represents the reason because of a security certificate is dropped out.

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SecurityCertificateDropoutReason
```

## Fields

Name	Description
NotWorking	
Others	
PlannedDropout	
Stolen	
Unrepairable	

# Enum SecurityCertificateIssuer

Represents the issuer of the certificate.

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SecurityCertificateIssuer
```

## Fields

Name	Description
ATrust	
GlobalTrust	
PrimeSign	
Test	
Unkown	

# Enum SecurityCertificateType

Represents the type of the security certificate.

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.FonService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SecurityCertificateType
```

## Fields

Name	Description
Hsm	
SecurityCard	
ServiceProviderHsm	

# Namespace RetailForce.Fiscalisation.Implementation.Austria.Migration

## Classes

[EfstaMigrator](#)

Efsta migration



# Class EfstaMigrator

Efsta migration

## Inheritance

[object](#)

EfstaMigrator

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Migration](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class EfstaMigrator
```

## Constructors

**EfstaMigrator(ILogger, string, string)**

Constructor.

## Declaration

```
public EfstaMigrator(ILogger logger, string serviceUrl, string registerTenant = null)
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger to log.
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	registerTenant	The tenant for efr register (if used).

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>logger</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .

## Properties

### Connected

True if the migrator can connect to efsta service; otherwise false.

## Declaration

```
public bool Connected { get; }
```

## Property Value

### Type Description

[bool](#)

## Methods

### GetAesKey()

Returns the aes key of the cash register from efsta service.

## Declaration

```
public string GetAesKey()
```

## Returns

### Type Description

[string](#) The aes key of the cash register from efsta service.

### GetDepJournal(string, DateTime, DateTime)

Returns the dep journal from efsta service into the given filename.

## Declaration

```
public bool GetDepJournal(string depJournalFile, DateTime fromDate, DateTime tillDate)
```

## Parameters

### Type Name Description

[string](#) depJournalFile The filename for the dep export.

[DateTime](#) fromDate The date from the dep journal has to be exported.

[DateTime](#) tillDate The date till the dep journal has to be exported.

## Returns

### Type Description

[bool](#) True if export was successfully; otherwise false.

## Exceptions

### Type Condition

[ArgumentNullException](#) Thrown if parameter depJournalFile is set to null or [Empty](#).

### GetStartReceiptDateTime()

Returns the datetime of start receipt if found.

**Declaration**

```
public DateTime? GetStartReceiptDateTime()
```

**Returns**

Type	Description
------	-------------

<a href="#">DateTime</a> ?	The datetime of start receipt if found. Null if start receipt wasn't found.
----------------------------	---

**GetStartReceiptDateTimeXml(string, ILogger)****Declaration**

```
public static DateTime? GetStartReceiptDateTimeXml(string depReportEfsta, ILogger logger = null)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	depReportEfsta	
------------------------	----------------	--

<a href="#">ILogger</a>	logger	
-------------------------	--------	--

**Returns**

Type	Description
------	-------------

<a href="#">DateTime</a> ?	
----------------------------	--

# Namespace RetailForce.Fiscalisation.Implementation.Austria.Model

## Classes

[SignatureDeviceActivated](#)

# Class SignatureDeviceActivated

## Inheritance

[object](#)

SignatureDeviceActivated

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignatureDeviceActivated
```

## Constructors

### SignatureDeviceActivated()

#### Declaration

```
public SignatureDeviceActivated()
```

### SignatureDeviceActivated(long, bool)

#### Declaration

```
public SignatureDeviceActivated(long certificateSerial, bool activated)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">long</a>	certificateSerial	
----------------------	-------------------	--

<a href="#">bool</a>	activated	
----------------------	-----------	--

## Properties

### Activated

#### Declaration

```
public bool Activated { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### CertificateSerial

#### Declaration

```
public long CertificateSerial { get; set; }
```

Property Value

Type Description

[long](#)

# Namespace RetailForce.Fiscalisation.Implementation.Austria.Signing

## Classes

### [Certificate](#)

Represents a certificate and its enclosed data.

### [HsmSignBase](#)

Abstract base class for hsm signing.

### [SignBase](#)

Basic class for all signing modules (hsm, smartcards)

### [SmartCardBase](#)

Basic class for all attached Smartcards (for signing).

### [SmartCardFactory](#)

## Interfaces

### [ISmartCard](#)

## Enums

### [SignDeviceState](#)

### [UrTypeRequest](#)

The type of the request.

# Class Certificate

Represents a certificate and its enclosed data.

## Inheritance

[object](#)

Certificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Certificate
```

## Properties

### Algorithm

The used algorithm.

#### Declaration

```
public virtual string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CertificateAuthorities

Certificate authorities for this certificate (most of time empty array)

#### Declaration

```
public virtual string[] CertificateAuthorities { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

### CertificateSerial

The serial of the certificate.

#### Declaration

```
public virtual string CertificateSerial { get; set; }
```

#### Property Value



## Type Description

[string](#)

## CertificateSerialHex

The serial of the certificate as hexadecimal representation.

### Declaration

```
public virtual string CertificateSerialHex { get; set; }
```

### Property Value

## Type Description

[string](#)

### Remarks

You can convert this property to [CertificateSerial](#) with method `Fiscalisation.Signing.Certificate.GetSecurityCertificateSerialFromHex`.

## SignatureCertificate

The certificate itself.

### Declaration

```
public virtual string SignatureCertificate { get; set; }
```

### Property Value

## Type Description

[string](#)

# Class HsmSignBase

Abstract base class for hsm signing.

## Inheritance

[object](#)  
[SignBase](#)  
[HsmSignBase](#)  
[ATrustHsmLocal](#)  
[PrimeSignHsm](#)

## Inherited Members

[SignBase.Logger](#)  
[SignBase.CertificateType](#)  
[SignBase.SignDeviceState](#)  
[SignBase.Serial](#)  
[SignBase.Certificate](#)  
[SignBase.Sign\(ReceiptLine\)](#)  
[SignBase.GetCertificate\(bool\)](#)  
[SignBase.GetCertificateAuthority\(\)](#)  
[SignBase.SignExecute\(ReceiptLine\)](#)  
[SignBase.SignatureFromIws\(string\)](#)  
[SignBase.GetCertificateIssuerString\(SecurityCertificateIssuer\)](#)  
[SignBase.GetCertificateIssuerFromString\(string\)](#)  
[SignBase.GetSignDeviceDriverInfos\(\)](#)  
[SignBase.GetSignDeviceDriverInfos\(SignDeviceDriver\)](#)  
[SignBase.GetSecurityCertificateTypeFromSignDeviceDriver\(SignDeviceDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class HsmSignBase : SignBase
```

## Constructors

### HsmSignBase(ILogger, string, ProxyConfiguration)

Constructor.

#### Declaration

```
public HsmSignBase(ILogger logger, string baseUrl, ProxyConfiguration proxyConfiguration = null)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for the sign device.
<a href="#">string</a>	baseUrl	A string representing the base url for the hsm connection.

Type	Name	Description
ProxyConfiguration	proxyConfiguration	Possible proxy configuration. Can be null.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>baseUrl</code> is set to null or empty string or parameter <code>logger</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if <code>baseUrl</code> is not a valid http or https url.

## Fields

### AuthenticationError

#### Declaration

```
protected bool AuthenticationError
```

#### Field Value

#### Type Description

[bool](#)

### baseHsmUrl

#### Declaration

```
protected string baseHsmUrl
```

#### Field Value

#### Type Description

[string](#)

## Properties

### ContentType

Gets or sets the content type used when creating a web request.

#### Declaration

```
protected abstract string ContentType { get; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### AddAuthorizationHeader(HttpWebRequest)

Adds the authorization header for local hsm usage.

#### Declaration

```
protected abstract void AddAuthorizationHeader(HttpWebRequest webRequest)
```

## Parameters

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	

## CreateUri(UriTypeRequest)

Create the uri for the web request based on the given request type.

## Declaration

```
protected abstract Uri CreateUri(UriTypeRequest requestType)
```

## Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	requestType	The request type for the uri to create.

## Returns

Type	Description
<a href="#">Uri</a>	The uri for the request.

## CreateWebRequest(UriTypeRequest)

Creates the necessary web request to place a command.

## Declaration

```
protected HttpWebRequest CreateWebRequest(UriTypeRequest requestType)
```

## Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	requestType	The type of the request.

## Returns

Type	Description
<a href="#">HttpWebRequest</a>	A <a href="#">HttpWebRequest</a> object to send the web request to the hsm.

## GetHttpMethod(UriTypeRequest)

Returns the http method for the given request type.

## Declaration

```
protected abstract string GetHttpMethod(UriTypeRequest requestType)
```

## Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	requestType	The requested request type.

## Returns

Type	Description
------	-------------

<a href="#">string</a>	The http method as string for the given request type.
------------------------	---

## GetWebResponse(HttpWebRequest, bool)

Returns the response from the webrequest as string.

### Declaration

```
protected virtual string GetWebResponse(HttpWebRequest webRequest, bool throwException = false)
```

### Parameters

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	The webrequest object to request the response.

<a href="#">bool</a>	throwException	True if exception should be thrown in case of an error.
----------------------	----------------	---

## Returns

Type	Description
------	-------------

<a href="#">string</a>	The response as string.
------------------------	-------------------------

## Remarks

This method will not return a response if a [WebException](#) occurs (will be logged).

## GetWebResponseSerialized<TType>(HttpWebRequest, bool)

Returns the response from the webservice as object (with json deserializing)

### Declaration

```
protected virtual TType GetWebResponseSerialized<TType>(HttpWebRequest webRequest, bool throwException = false)
```

### Parameters

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	The webrequest object to request the response.

<a href="#">bool</a>	throwException	True if exception should be thrown in case of an error.
----------------------	----------------	---

## Returns

Type	Description
------	-------------

TType	An object of type TType representing the response.
-------	--

## Type Parameters

Name	Description
------	-------------

**Name Description**

TType The return type.

**SetRequestBody(HttpWebRequest, string)**

Sets the body for a http request.

**Declaration**

```
protected virtual void SetRequestBody(HttpWebRequest webRequest, string body)
```

**Parameters**

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	The request to set the body for.
<a href="#">string</a>	body	The body for the request.

**ValidateUrl(string)**

Checks if the given uri is a valid http or https uri.

**Declaration**

```
protected bool ValidateUrl(string url)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	url	The url to check.

**Returns**

Type	Description
<a href="#">bool</a>	True if the url is a valid uri; otherwise false.

# Interface ISmartCard

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISmartCard
```

## Methods

### prepareSignature()

Perpares the smart card for signing data

#### Declaration

```
void prepareSignature()
```

#### Remarks

If you want to sign multiple hashes one after another, you only have to call this function once to set the necessary parameter

### readCIN()

Reads the CIN of the smart card

#### Declaration

```
string readCIN()
```

#### Returns

## Type Description

[string](#)

### readCertificate()

Gets the certificate which belongs to the cash register smartcard

#### Declaration

```
X509Certificate2 readCertificate()
```

#### Returns

Type	Description
<a href="#">X509Certificate2</a>	Returns the certificate as X509Certificate2

#### Remarks

Reading the whole certificate is slow. If you need only the serial use `getCertificateSerialDecimal()` or `getCertificateSerialHex()`

### readCertificateSerialDecimal()

Gets the serial of the certificate on the cash register smartcard

#### Declaration

```
string readCertificateSerialDecimal()
```

#### Returns

Type	Description
------	-------------

[string](#) Returns the serial in decimal

### **readCertificateSerialHex()**

Gets the serial of the certificate on the cash register smartcard

#### **Declaration**

```
string readCertificateSerialHex()
```

#### **Returns**

Type	Description
------	-------------

[string](#) Returns the serial in hexadecimal

### **sign(string, byte[])**

Signs the given hash.

#### **Declaration**

```
byte[] sign(string pin, byte[] SHA256HASH)
```

#### **Parameters**

Type	Name	Description
------	------	-------------

[string](#) pin

[byte\[\]](#) SHA256HASH

#### **Returns**

Type	Description
------	-------------

[byte\[\]](#)

#### **Remarks**

The function is slower than `signWithoutSelection()` but save, as all required parameter are set before the signature

### **signWithoutSelection(string, byte[])**

Signs the given hash. Make sure that `prepareSignature()` is called before.

#### **Declaration**

```
byte[] signWithoutSelection(string pin, byte[] SHA256HASH)
```

#### **Parameters**

Type	Name	Description
------	------	-------------

[string](#) pin

[byte\[\]](#) SHA256HASH

#### **Returns**

Type	Description
------	-------------

[byte\[\]](#)



## Remarks

If you want to sign multiple hashes one after another, you have to call the `prepareSignature()` function only once to set the necessary parameter

## `verify(byte[], byte[])`

Verifies that the given signature is correct for the given signed data

## Declaration

```
bool verify(byte[] signature, byte[] signedData)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	signature	
------------------------	-----------	--

<a href="#">byte[]</a>	signedData	
------------------------	------------	--

## Returns

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

# Class SignBase

Basic class for all signing modules (hsm, smartcards)

## Inheritance

[object](#)  
[SignBase](#)  
[HsmSignBase](#)  
[SmartCardBase](#)

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class SignBase
```

## Constructors

### SignBase(ILogger)

Constructor.

#### Declaration

```
public SignBase(ILogger logger)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for the sign device.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if paramater <code>logger</code> is set to null.

## Fields

### Logger

#### Declaration

```
protected ILogger Logger
```

#### Field Value

Type	Description
------	-------------

## Type Description

[ILogger](#)

## Properties

### Certificate

Returns the full certificate of the signature device.

#### Declaration

```
public Certificate Certificate { get; protected set; }
```

#### Property Value

## Type Description

[Certificate](#)

#### Remarks

Only set if a connection to the signature device was done before.

### CertificateType

Returns the type of the certificate of this driver.

#### Declaration

```
public abstract SecurityCertificateType CertificateType { get; }
```

#### Property Value

## Type Description

[SecurityCertificateType](#)

### Serial

Returns the serial of the device.

#### Declaration

```
public string Serial { get; protected set; }
```

#### Property Value

## Type Description

[string](#)

### SignDeviceState

Returns the state of the sign device.

#### Declaration

```
public abstract SignDeviceState SignDeviceState { get; }
```

#### Property Value

## Type Description

[SignDeviceState](#)

## Methods

## GetCertificate(bool)

Gets the certificate from the signature unit.

### Declaration

```
public abstract Certificate GetCertificate(bool throwException = false)
```

### Parameters

Type	Name	Description
<a href="#">bool</a>	throwException	

### Returns

Type	Description
<a href="#">Certificate</a>	The certificate of the signature unit.

## GetCertificateAuthority()

Gets the certificate issuer from the signature unit.

### Declaration

```
public abstract SecurityCertificateIssuer GetCertificateAuthority()
```

### Returns

Type	Description
<a href="#">SecurityCertificateIssuer</a>	The certificate issuer from the signature unit.

## GetCertificateIssuerFromString(string)

Returns the certificate issuer from the given string. Allowed input is: AT1

### Declaration

```
public static SecurityCertificateIssuer GetCertificateIssuerFromString(string certificateIssuer)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	certificateIssuer	A string representing the issuer string to convert.

### Returns

Type	Description
<a href="#">SecurityCertificateIssuer</a>	A <a href="#">SecurityCertificateIssuer</a> object representing the converted issuer.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>certificateIssuer</code> is set to null or empty string.

**Type****Condition**

[NotSupportedException](#) Thrown if a string is sent which cannot be interpreted.

**GetCertificateIssuerString(SecurityCertificateIssuer)**

Returns the certificate issuer string (used for signing and receipt line).

**Declaration**

```
public static string GetCertificateIssuerString(SecurityCertificateIssuer issuer)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">SecurityCertificateIssuer</a>	issuer	The certificate issuer to convert.
---	--------	------------------------------------

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	A string representing the certificate issuer string for signing and the receipt line of austrian dep ("Datenerfassungsprotokoll").
------------------------	--

**Exceptions****Type****Condition**

[NotSupportedException](#) Thrown if a [SecurityCertificateIssuer](#) is given which is not supported.

**GetSecurityCertificateTypeFromSignDeviceDriver(SignDeviceDriver)**

Returns the security certificate type for the given sign device driver.

**Declaration**

```
public static SecurityCertificateType GetSecurityCertificateTypeFromSignDeviceDriver(SignDeviceDriver driver)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">SignDeviceDriver</a>	driver	The driver to get the certificate type.
----------------------------------	--------	---

**Returns**

Type	Description
------	-------------

<a href="#">SecurityCertificateType</a>	The security certificate type for the given sign device driver.
---	---

**Exceptions****Type****Condition**

[NotSupportedException](#) Thrown if the mapping for the given driver is not done.

**GetSignDeviceDriverInfos()**

Returns the driver infos of all possible sign device drivers.

#### Declaration

```
public static List<SignDeviceDriverInfo> GetSignDeviceDriverInfos()
```

#### Returns

Type	Description
<a href="#">List&lt;SignDeviceDriverInfo&gt;</a>	The driver infos of all possible sign device drivers.

#### GetSignDeviceDriverInfos(SignDeviceDriver)

Returns the driver info for the requested driver.

#### Declaration

```
public static SignDeviceDriverInfo GetSignDeviceDriverInfos(SignDeviceDriver driver)
```

#### Parameters

Type	Name	Description
<a href="#">SignDeviceDriver</a>	driver	The driver where the info is requested.

#### Returns

Type	Description
<a href="#">SignDeviceDriverInfo</a>	The driver info for the requested driver.

#### Sign(ReceiptLine)

Signs the given receipt line and returns the appropriate signage.

#### Declaration

```
public string Sign(ReceiptLine receiptLine)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptLine</a>	receiptLine	The receipt line to sign.

#### Returns

Type	Description
<a href="#">string</a>	The signature for the given receipt line (base64 url encoded).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>receiptLine</code> is set to null.

## SignExecute(ReceiptLine)

Method for execute signing. Must return only signature (not jws token).

### Declaration

```
protected abstract string SignExecute(ReceiptLine receipt)
```

### Parameters

Type	Name	Description
<a href="#">ReceiptLine</a>	receipt	The receipt line to sign.

### Returns

Type	Description
<a href="#">string</a>	The signature for the receipt line.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>receipt</code> is set to null.

## SignatureFromJws(string)

Returns signature from jws token. If nothing is supplied or wrong format empty string is returned.

### Declaration

```
protected string SignatureFromJws(string jws)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	jws	The jws token with format <code>header.data.signature</code> .

### Returns

Type	Description
<a href="#">string</a>	The signature from the jws token.

# Enum SignDeviceState

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum SignDeviceState
```

## Fields

Name	Description
Connected	Securitydevice is connected or can connected without problems.
Critical	Signaturedevice critical error, for instance: invalid credentials at logon.
Disconnected	Securitydevice is disconnected or cannot be connected.



# Class SmartCardBase

Basic class for all attached Smartcards (for signing).

## Inheritance

[object](#)  
[SignBase](#)  
SmartCardBase

## Inherited Members

[SignBase.Logger](#)  
[SignBase.CertificateType](#)  
[SignBase.SignDeviceState](#)  
[SignBase.Serial](#)  
[SignBase.Certificate](#)  
[SignBase.Sign\(ReceiptLine\)](#)  
[SignBase.GetCertificate\(bool\)](#)  
[SignBase.GetCertificateAuthority\(\)](#)  
[SignBase.SignExecute\(ReceiptLine\)](#)  
[SignBase.SignatureFromIws\(string\)](#)  
[SignBase.GetCertificateIssuerString\(SecurityCertificateIssuer\)](#)  
[SignBase.GetCertificateIssuerFromString\(string\)](#)  
[SignBase.GetSignDeviceDriverInfos\(\)](#)  
[SignBase.GetSignDeviceDriverInfos\(SignDeviceDriver\)](#)  
[SignBase.GetSecurityCertificateTypeFromSignDeviceDriver\(SignDeviceDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class SmartCardBase : SignBase
```

## Constructors

### SmartCardBase(ILogger)

Constructor.

### Declaration

```
public SmartCardBase(ILogger logger)
```

### Parameters

Type	Name	Description
<a href="#">ILlogger</a>	logger	The logger for the sign device.

## Exceptions

Type	Condition
------	-----------

**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `logger` is set to null.

# Class SmartCardFactory

## Inheritance

[object](#)

SmartCardFactory

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public sealed class SmartCardFactory
```

# Enum UrlTypeRequest

The type of the request.

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum UrlTypeRequest
```

## Fields

Name	Description
Certificate	
CertificateAuthority	
Sign	

# Namespace RetailForce.Fiscalisation.Implementation.Austria.Signing.ATrust

## Classes

### [ATrustCard](#)

Implementation of A-Trust Sign DLL (hardware).

### [ATrustHsm](#)

Class for signing in austria with a-trust hsm in a-trust service environment.

### [ATrustHsmLocal](#)

Class for signing in austria with a-trust hsm in local installation.

## Enums

### [InitializeState](#)

# Class ATrustCard

Implementation of A-Trust Sign DLL (hardware).

## Inheritance

[object](#)

ATrustCard

## Implements

[IDisposable](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing.ATrust](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ATrustCard : IDisposable
```

## Methods

### Dispose()

Called when the class is disposed.

### Declaration

```
public void Dispose()
```

### ListCards()

### Declaration

```
public string ListCards()
```

### Returns

### Type Description

[string](#)

### SetPin(string)

### Declaration

```
public void SetPin(string pin)
```

### Parameters

### Type Name Description

[string](#) pin

## Implements

IDisposable

# Class ATrustHsm

Class for signing in austria with a-trust hsm in a-trust service environment.

## Inheritance

[object](#)  
[SignBase](#)  
[HsmSignBase](#)  
[ATrustHsmLocal](#)  
ATrustHsm

## Inherited Members

[ATrustHsmLocal.Username](#)  
[ATrustHsmLocal.Password](#)  
[ATrustHsmLocal.CertificateType](#)  
[ATrustHsmLocal.SignDeviceState](#)  
[ATrustHsmLocal.ContentType](#)  
[ATrustHsmLocal.GetCertificate\(bool\)](#)  
[ATrustHsmLocal.GetCertificateAuthority\(\)](#)  
[ATrustHsmLocal.SignExecute\(ReceiptLine\)](#)  
[ATrustHsmLocal.GetHttpMethod\(UriTypeRequest\)](#)  
[HsmSignBase.baseHsmUrl](#)  
[HsmSignBase.AuthenticationError](#)  
[HsmSignBase.ValidateUrl\(string\)](#)  
[HsmSignBase.SetRequestBody\(HttpWebRequest, string\)](#)  
[HsmSignBase.CreateWebRequest\(UriTypeRequest\)](#)  
[HsmSignBase.GetWebResponseSerialized<TType>\(HttpWebRequest, bool\)](#)  
[HsmSignBase.GetWebResponse\(HttpWebRequest, bool\)](#)  
[SignBase.Logger](#)  
[SignBase.Serial](#)  
[SignBase.Certificate](#)  
[SignBase.Sign\(ReceiptLine\)](#)  
[SignBase.SignatureFromJws\(string\)](#)  
[SignBase.GetCertificateIssuerString\(SecurityCertificateIssuer\)](#)  
[SignBase.GetCertificateIssuerFromString\(string\)](#)  
[SignBase.GetSignDeviceDriverInfos\(\)](#)  
[SignBase.GetSignDeviceDriverInfos\(SignDeviceDriver\)](#)  
[SignBase.GetSecurityCertificateTypeFromSignDeviceDriver\(SignDeviceDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing.ATrust](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class ATrustHsm : ATrustHsmLocal
```

## Constructors

**ATrustHsm(ILogger, string, string, string, ProxyConfiguration)**

Constructor.

## Declaration

```
public ATrustHsm(ILogger logger, string username, string password, string testUrl = "", ProxyConfiguration proxyConfiguration = null)
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for the sign device.
<a href="#">string</a>	username	The username for authentication.
<a href="#">string</a>	password	The password for authentication.



Type	Name	Description
<a href="#">string</a>	testUrl	The test url for test environment at a-trust, leave empty for production environment.

ProxyConfiguration proxyConfiguration Possible proxy configuration. Can be null.

## Methods

### AddAuthorizationHeader(HttpWebRequest)

Adds the authorization header for local hsm usage.

#### Declaration

```
protected override void AddAuthorizationHeader(HttpWebRequest webRequest)
```

#### Parameters

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	

#### Overrides

[ATrustHsmLocal.AddAuthorizationHeader\(HttpWebRequest\)](#)

### CreateSignRequestBody(ReceiptLine)

Returns the sign request body for the sign request.

#### Declaration

```
protected override string CreateSignRequestBody(ReceiptLine receiptLine)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptLine</a>	receiptLine	The receiptline to sign.

#### Returns

Type	Description
<a href="#">string</a>	The complete sign request body for the sign request.

#### Overrides

[ATrustHsmLocal.CreateSignRequestBody\(ReceiptLine\)](#)

### CreateUri(UriTypeRequest)

Create the uri for the web request based on the given request type.

#### Declaration

```
protected override Uri CreateUri(UriTypeRequest requestType)
```

#### Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	requestType	The request type for the uri to create.

#### Returns

Type	Description
<a href="#">Uri</a>	The uri for the request.

#### Overrides



# Class ATrustHsmLocal

Class for signing in austria with a-trust hsm in local installation.

## Inheritance

[object](#)  
[SignBase](#)  
[HsmSignBase](#)  
[ATrustHsmLocal](#)  
[ATrustHsm](#)

## Inherited Members

[HsmSignBase.baseHsmUrl](#)  
[HsmSignBase.AuthenticationError](#)  
[HsmSignBase.ValidateUrl\(string\)](#)  
[HsmSignBase.SetRequestBody\(HttpWebRequest, string\)](#)  
[HsmSignBase.CreateWebRequest\(UriTypeRequest\)](#)  
[HsmSignBase.GetWebResponseSerialized<TType>\(HttpWebRequest, bool\)](#)  
[HsmSignBase.GetWebResponse\(HttpWebRequest, bool\)](#)  
[SignBase.Logger](#)  
[SignBase.Serial](#)  
[SignBase.Certificate](#)  
[SignBase.Sign\(ReceiptLine\)](#)  
[SignBase.SignatureFromIws\(string\)](#)  
[SignBase.GetCertificateIssuerString\(SecurityCertificateIssuer\)](#)  
[SignBase.GetCertificateIssuerFromString\(string\)](#)  
[SignBase.GetSignDeviceDriverInfos\(\)](#)  
[SignBase.GetSignDeviceDriverInfos\(SignDeviceDriver\)](#)  
[SignBase.GetSecurityCertificateTypeFromSignDeviceDriver\(SignDeviceDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing.ATrust](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class ATrustHsmLocal : HsmSignBase
```

## Constructors

**ATrustHsmLocal(ILogger, string, string, string, string, ProxyConfiguration)**

Constructor.

## Declaration

```
public ATrustHsmLocal(ILogger logger, string baseUrl, string keyLabel, string username, string password, ProxyConfiguration proxyConfiguration = null)
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for the sign device.
<a href="#">string</a>	baseUrl	The base url for hsm signing. Must not be null or empty string.
<a href="#">string</a>	keyLabel	The key label for the specific signature unit.
<a href="#">string</a>	username	The username for authentication to the hsm.
<a href="#">string</a>	password	The password for authentication to the hsm.

ProxyConfiguration proxyConfiguration Possible proxy configuration. Can be null.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if baseUrl, keyLabel, username or password is set to null or empty string or parameter logger is set to null.
<a href="#">ArgumentException</a>	Thrown if baseUrl is not a valid http or https url.

## Fields

### Password

#### Declaration

```
protected string Password
```

#### Field Value

#### Type Description

[string](#)

### Username

#### Declaration

```
protected string Username
```

#### Field Value

#### Type Description

[string](#)

## Properties

### CertificateType

Returns the type of the certificate of this driver.

#### Declaration

```
public override SecurityCertificateType CertificateType { get; }
```

#### Property Value

Type	Description
<a href="#">SecurityCertificateType</a>	

#### Overrides

[SignBase.CertificateType](#)

### ContentType

Gets or sets the content type used when creating a web request.

#### Declaration

```
protected override string ContentType { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[HsmSignBase.ContentType](#)

### SignDeviceState

Returns the state of the sign device.

#### Declaration

```
public override SignDeviceState SignDeviceState { get; }
```

#### Property Value

Type	Description
<a href="#">SignDeviceState</a>	

#### Overrides

[SignBase.SignDeviceState](#)

## Methods

### AddAuthorizationHeader(HttpWebRequest)

Adds the authorization header for local hsm usage.

#### Declaration

```
protected override void AddAuthorizationHeader(HttpWebRequest webRequest)
```

#### Parameters

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	

#### Overrides

[HsmSignBase.AddAuthorizationHeader\(HttpWebRequest\)](#)

#### CreateSignRequestBody(ReceiptLine)

Returns the sign request body for the sign request.

#### Declaration

```
protected virtual string CreateSignRequestBody(ReceiptLine receiptLine)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptLine</a>	receiptLine	The receiptline to sign.

#### Returns

Type	Description
<a href="#">string</a>	The complete sign request body for the sign request.

#### CreateUri(UriTypeRequest)

Create the uri for the web request based on the given request type.

#### Declaration

```
protected override Uri CreateUri(UriTypeRequest requestType)
```

#### Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	requestType	The request type for the uri to create.

#### Returns

Type	Description
<a href="#">Uri</a>	The uri for the request.

#### Overrides

[HsmSignBase.CreateUri\(UriTypeRequest\)](#)

#### GetCertificate(bool)

Gets the certificate from the signature unit.

#### Declaration

```
public override Certificate GetCertificate(bool throwException = false)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	throwException	True if exception should be thrown in case of an error.

#### Returns

Type	Description
<a href="#">Certificate</a>	The certificate of the signature unit.

#### Overrides

[SignBase.GetCertificate\(bool\)](#)

#### Remarks

Always tries to fetch the certificate, although certificate property is already set.

### GetCertificateAuthority()

Gets the certificate issuer from the signature unit.

#### Declaration

```
public override SecurityCertificateIssuer GetCertificateAuthority()
```

#### Returns

Type	Description
<a href="#">SecurityCertificateIssuer</a>	The certificate issuer from the signature unit.

#### Overrides

[SignBase.GetCertificateAuthority\(\)](#)

### GetHttpMethod(UriTypeRequest)

Returns the http method for the given request type.

#### Declaration

```
protected override string GetHttpMethod(UriTypeRequest requestType)
```

#### Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	requestType	The requested request type.

#### Returns

Type	Description
<a href="#">string</a>	The http method as string for the given request type.

#### Overrides

[HsmSignBase.GetHttpMethod\(UriTypeRequest\)](#)

### SignExecute(ReceiptLine)

Method for execute signing. Must return only signature (not jws token).

#### Declaration

```
protected override string SignExecute(ReceiptLine receipt)
```

#### Parameters

Type	Name	Description
<a href="#">ReceiptLine</a>	receipt	The receipt line to sign.

#### Returns

Type	Description
<a href="#">string</a>	The signature for the receipt line.

#### Overrides

[SignBase.SignExecute\(ReceiptLine\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>receipt</code> is set to null.

# Enum InitializeState

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing.ATrust](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum InitializeState
```

## Fields

Name	Description
ClientCouldntBeLoaded	
CouldntOrAlreadyInitialized	
DIWrongOrDamaged	
Ok	

# Namespace RetailForce.Fiscalisation.Implementation.Austria.Signing.PrimeSign

## Classes

### [PrimeSignCertificate](#)

Structure for primeSign certificate response.

### [PrimeSignHsm](#)

Prime sign hsm implementation.



# Class PrimeSignCertificate

Structure for primeSign certificate response.

## Inheritance

[object](#)

PrimeSignCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing.PrimeSign](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PrimeSignCertificate
```

## Properties

### IssuerDn

The issuer of the certificate.

#### Declaration

```
[JsonProperty("IssuerDN")]  
public string IssuerDn { get; set; }
```

#### Property Value

### Type Description

[string](#)

### NotAfter

Unit time of the certificate end date.

#### Declaration

```
public ulong NotAfter { get; set; }
```

#### Property Value

### Type Description

[ulong](#)

### NotBefore

Unix time of the certificate start date.

#### Declaration

```
public ulong NotBefore { get; set; }
```

**Property Value**

**Type Description**

[ulong](#)

**SerialNumber**

The serial number of the certificate.

**Declaration**

```
public string SerialNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**SerialNumberHex**

The serial number in hex format of the certificate.

**Declaration**

```
public string SerialNumberHex { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**SubjectDn**

The subject of the certificate.

**Declaration**

```
[JsonProperty("SubjectDN")]  
public string SubjectDn { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PrimeSignHsm

Prime sign hsm implementation.

## Inheritance

[object](#)  
[SignBase](#)  
[HsmSignBase](#)  
PrimeSignHsm

## Inherited Members

[SignBase.Serial](#)  
[SignBase.Certificate](#)  
[SignBase.Sign\(ReceiptLine\)](#)  
[SignBase.GetCertificateIssuerString\(SecurityCertificateIssuer\)](#)  
[SignBase.GetCertificateIssuerFromString\(string\)](#)  
[SignBase.GetSignDeviceDriverInfos\(\)](#)  
[SignBase.GetSignDeviceDriverInfos\(SignDeviceDriver\)](#)  
[SignBase.GetSecurityCertificateTypeFromSignDeviceDriver\(SignDeviceDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Signing.PrimeSign](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public sealed class PrimeSignHsm : HsmSignBase
```

## Constructors

### PrimeSignHsm(ILogger, string, string, string, string, ProxyConfiguration)

Constructor.

## Declaration

```
public PrimeSignHsm(ILogger logger, string baseUrl, string keyId, string username, string password, ProxyConfiguration proxyConfiguration = null)
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">string</a>	baseUrl	The base url of the hsm.
<a href="#">string</a>	keyId	The key which is used to fetch certificate and for signature.
<a href="#">string</a>	username	The username for authorization.
<a href="#">string</a>	password	The password for authorization.

ProxyConfiguration proxyConfiguration Possible proxy configuration. Can be null.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>username</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>password</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>keyId</code> is set to null or <a href="#">Empty</a> .

## Properties

### CertificateType

Returns the type of the certificate of this driver.

## Declaration

```
public override SecurityCertificateType CertificateType { get; }
```

## Property Value

Type	Description
<a href="#">SecurityCertificateType</a>	

## Overrides

[SignBase.CertificateType](#)

## ContentType

Gets or sets the content type used when creating a web request.

## Declaration

```
protected override string ContentType { get; }
```

## Property Value

### Type Description

[string](#)

## Overrides

[HsmSignBase.ContentType](#)

## SignDeviceState

Returns the state of the sign device.

## Declaration

```
public override SignDeviceState SignDeviceState { get; }
```

## Property Value

Type	Description
<a href="#">SignDeviceState</a>	

## Overrides

[SignBase.SignDeviceState](#)

## Methods

### AddAuthorizationHeader(HttpWebRequest)

Adds the authorization header for local hsm usage.

## Declaration

```
protected override void AddAuthorizationHeader(HttpWebRequest webRequest)
```

## Parameters

Type	Name	Description
<a href="#">HttpWebRequest</a>	webRequest	

## Overrides

[HsmSignBase.AddAuthorizationHeader\(HttpWebRequest\)](#)

### CreateUri(UriTypeRequest)

Create the uri for the web request based on the given request type.

## Declaration

```
protected override Uri CreateUri(UriTypeRequest urlTypeRequest)
```

## Parameters

Type	Name	Description
<a href="#">UriTypeRequest</a>	urlTypeRequest	

## Returns

Type	Description
------	-------------

**Type Description**

[Uri](#) The uri for the request.

**Overrides**

[HsmSignBase.CreateUri\(UriTypeRequest\)](#)

**GetCertificate(bool)**

Gets the certificate from the signature unit.

**Declaration**

```
public override Certificate GetCertificate(bool throwException = false)
```

**Parameters**

**Type Name Description**

[bool](#) throwException

**Returns**

**Type Description**

[Certificate](#) The certificate of the signature unit.

**Overrides**

[SignBase.GetCertificate\(bool\)](#)

**GetCertificateAuthority()**

Gets the certificate issuer from the signature unit.

**Declaration**

```
public override SecurityCertificateIssuer GetCertificateAuthority()
```

**Returns**

**Type Description**

[SecurityCertificateIssuer](#) The certificate issuer from the signature unit.

**Overrides**

[SignBase.GetCertificateAuthority\(\)](#)

**GetHttpMethod(UriTypeRequest)**

Returns the http method for the given request type.

**Declaration**

```
protected override string GetHttpMethod(UriTypeRequest urlTypeRequest)
```

**Parameters**

**Type Name Description**

[UriTypeRequest](#) urlTypeRequest

**Returns**

**Type Description**

[string](#) The http method as string for the given request type.

**Overrides**

[HsmSignBase.GetHttpMethod\(UriTypeRequest\)](#)

**SignExecute(ReceiptLine)**

Method for execute signing. Must return only signature (not jws token).

**Declaration**

```
protected override string SignExecute(ReceiptLine receipt)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">ReceiptLine</a>	receipt	The receipt line to sign.
-----------------------------	---------	---------------------------

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The signature for the receipt line.
------------------------	-------------------------------------

#### Overrides

[SignBase.SignExecute\(ReceiptLine\)](#)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if <code>receipt</code> is set to null.
---------------------------------------	--

# Namespace RetailForce.Fiscalisation.Implementation.Bulgaria

## Classes

### [BulgarianFiscalProperties](#)

Properties for Bulgaria.

### [BulgarianFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for bulgarian fiscalisation.

### [BulgarianValidation](#)

### [ClientConfiguration](#)

Client configuration class for bulgaria.

### [FiscalResponseBulgaria](#)

Representation for fiscal response bulgaria (additional fields)

### [TrustedFiscalModuleBulgaria](#)

# Class BulgarianFiscalProperties

Properties for Bulgaria.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>](#)

[FlinkFiscalProperties<BulgarianFiscalisationRequiredAttribute>](#)

[BulgarianFiscalProperties](#)

## Implements

[IFlinkFiscalCountryProperties](#)

[IFiscalCountryProperties](#)

## Inherited Members

[FlinkFiscalProperties<BulgarianFiscalisationRequiredAttribute>.FiscalLineInterface](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Bulgaria](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class BulgarianFiscalProperties : FlinkFiscalProperties<BulgarianFiscalisationRequiredAttribute>, IFlinkFiscalCountryProperties, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.CountryModuleVersion](#)

### CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

#### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```



Property Value

**Type Description**

[bool](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

**FiscalCountry**

The fiscal country for this property collection.

Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

Property Value

**Type Description**

[FiscalCountry](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.FiscalCountry](#)

**FiscalDocumentTypes**

Returns a list of all fiscal necessary document types for this country.

Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

**Type Description**

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

**GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

Property Value

**Type Description**

[string](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

Remarks

Return empty string if there is not cloud

**MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

Property Value

**Type Description**

[int](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

**MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

Declaration

```
public override bool MustSendClosingPerDay { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

## Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

## Property Value

### Type Description

[ReceiptDomain](#)

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

## Property Value

### Type Description

[ReturnAndSaleBehavior](#)

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

## Property Value

### Type Description

[ReceiptDomain](#)

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

## Property Value

### Type Description

[ReturnReferenceBehavior](#)

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

## Property Value

### Type Description

[List<BusinessTransactionType>](#)

### Overrides

### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

#### Declaration

```
public override Vat TaxFreeVat { get; }
```

#### Property Value

Type	Description
<a href="#">Vat</a>	

#### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TaxGroupMapping

The tax group mapping

### Declaration

```
public override Dictionary<int, int> TaxGroupMapping { get; }
```

### Property Value

Type	Description
<a href="#">Dictionary&lt;int, int&gt;</a>	

### Overrides

[FlinkFiscalProperties<BulgarianFiscalisationRequiredAttribute>.TaxGroupMapping](#)

### Remarks

Bulgarian mapping on flink is done to cyrilish alphabet АААА (ABCD). Vat percentages are stored to the printer by the service company. In ECR.INI of flink mapping cannot be changed.

Tax group a is starting with 1 not with 0.

### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
public override bool TrainingModeAllowed { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFlinkFiscalCountryProperties](#)  
[IFiscalCountryProperties](#)

# Class BulgarianFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for bulgarian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
[BulgarianFiscalisationRequiredAttribute](#)

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Bulgaria](#)

**Assembly:** RetailForce.Fiscalisation.dll

### **Syntax**

```
[AttributeUsage(AttributeTargets.Property)]  
public class BulgarianFiscalisationRequiredAttribute : RequiredAttribute
```

# Class BulgarianValidation

## Inheritance

[object](#)

BulgarianValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Bulgaria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BulgarianValidation
```

## Fields

### ReturnReasonTypeDictionary

Mapping dictionary for return reasons in Bulgaria.

#### Declaration

```
public static readonly Dictionary<ReturnReasonType, int> ReturnReasonTypeDictionary
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;ReturnReasonType, int&gt;</a>	

### SupportedPaymentsMapping

#### Declaration

```
public static ReadOnlyDictionary<PaymentType, int> SupportedPaymentsMapping
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;PaymentType, int&gt;</a>	

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods



## ValidateDocument(Document)

Document validation for bulgaria.

### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.

### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of validation errors if occurred; otherwise an empty list.

# Class ClientConfiguration

Client configuration class for bulgaria.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[ClientConfiguration](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ClientConfiguration.CloudArchive](#)

[ClientConfiguration.ItemCaptionFormat](#)

[ClientConfiguration.FLinkHttpInterfaceUrl](#)

[ClientConfiguration.Encoding](#)

[ClientConfiguration.SimplifiedInvoiceOriginalText](#)

[ClientConfiguration.SimplifiedInvoiceCaption](#)

[ClientConfiguration.SimplifiedReturnCaption](#)

[ClientConfiguration.SimplifiedInvoiceTaxNumberCaption](#)

[ClientConfiguration.SimplifiedInvoiceNetAmountCaption](#)

[ClientConfiguration.SimplifiedInvoiceVatAmountCaption](#)

[ClientConfiguration.SimplifiedInvoiceReferenceCaption](#)

[ClientConfiguration.SimplifiedInvoiceTaxSymbol](#)

[ClientConfiguration.SimplifiedInvoiceBusinessTaxNumberCaption](#)

[ClientConfiguration.FLinkPaymentMapping](#)

[ClientConfiguration.Encrypt\(Guid\)](#)

[ClientConfiguration.PreserveValues\(IFiscalImplementationConfiguration\)](#)

[ClientConfiguration.RemoveSensitiveData\(\)](#)

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Bulgaria](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ClientConfiguration, IFiscalImplementationConfiguration
```

## Properties

### FiscalCountry

The fiscal country of the client configuration.

## Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Overrides

[ClientConfiguration.FiscalCountry](#)

## Implements

[IFiscalImplementationConfiguration](#)

## Class FiscalResponseBulgaria

Representation for fiscal response bulgaria (additional fields)

### Inheritance

[object](#)

FiscalResponseBulgaria

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Bulgaria](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseBulgaria
```

### Remarks

At the moment there are no additional fields for bulgaria.

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponseBulgaria(int, List<DocumentTaxPosition>, long, string, string, string, string, string)

Returns the fiscal response for bulgaria out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseBulgaria(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, st:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	usermessage	The message which must be shown to the user of the cash register system. Optional parameter, empty if everything went well.
<a href="#">string</a>	printerSerial	The serial number of the printer.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for bulgaria.

#### PrinterSerial(FiscalResponse)

Returns the printer serial for the signature.

**Declaration**

```
public static string PrinterSerial(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

**Returns****Type Description**

[string](#)

# Class TrustedFiscalModuleBulgaria

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>](#)  
[TrustedFiscalModuleBulgaria](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SendClosing\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SynchronizeTime\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ExportZReportByDate\(bool, DateTime, DateTime\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ExportZReportByBlock\(uint, uint\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ExportKlen\(uint, uint\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Bulgaria](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleBulgaria : TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>, IFiscalModuleI
```

## Constructors

**TrustedFiscalModuleBulgaria(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleBulgaria(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, (
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	

Type	Name	Description
<a href="#">string</a>	cloudApiSecret	

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

#### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.FiscalClientStatus](#)

### SimplifiedInvoiceBusinessTaxNumberCaption

Business tax number caption on simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceBusinessTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceBusinessTaxNumberCaption](#)

### SimplifiedInvoiceCaption

Set this caption to enable simplified invoice in the country.

#### Declaration

```
protected override string SimplifiedInvoiceCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceCaption](#)

### SimplifiedInvoiceNetAmountCaption

Net amount caption in vat overview of simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceNetAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceNetAmountCaption](#)

### SimplifiedInvoiceOriginalText

Text to print "original" at the receipt at simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceOriginalText { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceOriginalText](#)

### SimplifiedInvoiceReferenceCaption

Invoice document reference caption.

#### Declaration

```
protected override string SimplifiedInvoiceReferenceCaption { get; }
```

#### Property Value

#### Type Description

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceReferenceCaption](#)

#### SimplifiedInvoiceTaxNumberCaption

Set the caption if you want to print taxnumber on receipt in the country.

#### Declaration

```
protected override string SimplifiedInvoiceTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceTaxNumberCaption](#)

#### SimplifiedInvoiceTaxSymbol

Tax symbol on simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceTaxSymbol { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceTaxSymbol](#)

#### SimplifiedInvoiceVatAmountCaption

Vat amount caption in vat overview of simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceVatAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedInvoiceVatAmountCaption](#)

#### SimplifiedReturnCaption

Set this caption to set return caption of simplified invoice.

#### Declaration

```
protected override string SimplifiedReturnCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.SimplifiedReturnCaption](#)

## Methods

#### GetCountrySpecificEmptyFiscalResponse()

Returns an empty country specific [FiscalResponse](#).

#### Declaration

```
protected override FiscalResponse GetCountrySpecificEmptyFiscalResponse()
```

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	An object of type <a href="#">FiscalResponse</a> representing an empty country specific <a href="#">FiscalResponse</a> .

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetCountrySpecificEmptyFiscalResponse\(\)](#)

#### GetCountrySpecificFiscalResponse(string, List<DocumentTaxPosition>, string)

Returns the country specific [FiscalResponse](#) for the given parameters.

#### Declaration



```
protected override FiscalResponse GetCountrySpecificFiscalResponse(string signature, List<DocumentTaxPosition> taxPositions, string userMessage = "")
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	signature	The return value of the printer if everything goes well.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	The tax positions of the document.
<a href="#">string</a>	userMessage	The error message of the printer.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The country specific <a href="#">FiscalResponse</a> for the given parameters.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetCountrySpecificFiscalResponse\(string, List<DocumentTaxPosition>, string\)](#)

#### GetFlinkPaymentType(PaymentType)

Returns the flink payment type for the given payment type.

#### Declaration

```
protected override int GetFlinkPaymentType(PaymentType paymentType)
```

#### Parameters

Type	Name	Description
<a href="#">PaymentType</a>	paymentType	The <a href="#">PaymentType</a> to map.

#### Returns

Type	Description
<a href="#">int</a>	The flink payment type for the given payment type.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.GetFlinkPaymentType\(PaymentType\)](#)

#### Remarks

The [PaymentType](#) must be supported.

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.InitializeClient\(Document\)](#)

#### OpenReturnReceipt(Document)

This method is called by [StoreDocument\(Document\)](#) when a return receipt has to be opened.

#### Declaration

```
protected override void OpenReturnReceipt(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document with the return values.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.OpenReturnReceipt\(Document\)](#)

#### Remarks

At the moment this method is only used in Bulgaria.

### ValidateDocumentCountry(Document, bool)

Internal call for country document validation. Flink document validation is done before.

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentCountry(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.
<a href="#">bool</a>	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, BulgarianFiscalisationRequiredAttribute, BulgarianFiscalProperties>.ValidateDocumentCountry\(Document, bool\)](#)

#### Implements

[IFiscalModullImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Croatia

## Classes

### [ClientConfiguration](#)

The croatian country specific client configuration.

### [CroatiaFiscalProperties](#)

Properties for croatia.

### [CroatiaValidation](#)

Validation for croatian.

### [CroatianFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for croatian fiscalisation.

### [FiscalResponseCroatia](#)

Fiscal response for croatia.

### [TrustedFiscalModuleCroatia](#)

Country module implementation for croatia.

# Class ClientConfiguration

The croatian country specific client configuration.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Croatia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

#### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

#### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

#### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

## Implements

[IFiscalImplementationConfiguration](#)

# Class CroatiaFiscalProperties

Properties for croatia.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>](#)  
CroatiaFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.StartDocumentType](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.FiscalRegions](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.EntityParameters](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SupportedEnvironments](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)  
[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Croatia](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class CroatiaFiscalProperties : FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

### Type Description

## Type Description

[Version](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

## Type Description

[FiscalCountry](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

## Type Description

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.FiscalLineInterface](#)

## GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

### Property Value

### Type Description

[string](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

### Remarks

Return empty string if there is not cloud

## MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

### Property Value

### Type Description

[int](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

## MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

## MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)



## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

## ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

#### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
------	-------------

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

**Overrides**

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

**SupportedDocumentTypes**

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

**Declaration**

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

**Property Value**

Type	Description
------	-------------

[List<DocumentType>](#)

**Overrides**

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

**Remarks**

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

**SupportedPaymentTypes**

Returns a list of all supported payment types.

**Declaration**

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

**Property Value**

Type	Description
------	-------------

[List<PaymentType>](#)

**Overrides**

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

**SupportedVatDefinitions**

Returns the supported vat definitions for this country.

**Declaration**

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

**Property Value**

Type	Description
------	-------------

[ReadOnlyCollection<Vat>](#)

**Overrides**

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

**SurchargesPossible**

True if surcharges in fiscal document types are allowed; otherwise false.

**Declaration**

```
public override bool SurchargesPossible { get; }
```

**Property Value**

**Type Description**

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.SurchargesPossible](#)

## TaxFreeVat

The tax free vat class for this country.

### Declaration

```
public override Vat TaxFreeVat { get; }
```

### Property Value

### Type Description

[Vat](#)

## Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
public override bool TrainingModeAllowed { get; }
```

### Property Value

### Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class CroatiaValidation

Validation for croatian.

## Inheritance

[object](#)

CroatiaValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Croatia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class CroatiaValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

# Class CroatianFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for croatian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
CroatianFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Croatia](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class CroatianFiscalisationRequiredAttribute : RequiredAttribute
```

## Class FiscalResponseCroatia

Fiscal response for croatia.

### Inheritance

[object](#)

FiscalResponseCroatia

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Croatia](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseCroatia
```

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponseCroatia(int, List<DocumentTaxPosition>, long, string, string, string, string, string)

Returns the fiscal response for croatia out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseCroatia(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, str:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific)
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	protectiveMark	The protective mark of the response.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for croatia.

#### ProtectiveMark(FiscalResponse)

#### Declaration

```
public static string ProtectiveMark(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	



Returns

Type Description

[string](#)

## Class TrustedFiscalModuleCroatia

Country module implementation for croatia.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>](#)  
[TrustedFiscalModuleCroatia](#)

### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

### Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Croatia](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public sealed class TrustedFiscalModuleCroatia : TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>, IFis
```

### Constructors

**TrustedFiscalModuleCroatia(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

### Declaration

```
public TrustedFiscalModuleCroatia(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, C
```

### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

### Properties

## FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CancelDocument\(Document\)](#)

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

#### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.CreateDocument\(DocumentType\)](#)

### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.DecommissionClient\(Document\)](#)

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

[NotSupportedException](#) Thrown if the given service url is not supported for migration.

### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) importFile The file to import for migration.

[string](#) param1 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param2 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param3 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param4 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param5 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

[InvalidDataException](#) Thrown if the client is not in state [NotInitialized](#).

[InvalidDataException](#) Thrown if the import file is empty or cannot be read.

[FileNotFoundException](#) Thrown if the given file is not found.

### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) document The document to store.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) document

[bool](#) reprintDocument

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Denmark

## Classes

### [AmountNumber](#)

### [ClientConfiguration](#)

Client configuration for denmark.

### [DenmarkFiscalProperties](#)

Properties for denmark.

### [DenmarkFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for austrian fiscalisation.

### [DenmarkValidation](#)

### [FiscalResponseDenmark](#)

Representation for fiscal response denmark (additional fields)

### [ListExtension](#)

### [ReportElement](#)

### [ReportElementEmployee](#)

### [SaftGenerator](#)

Creates an saf-t auditfile (denmark).

### [TrustedFiscalModuleDenmark](#)

Implementation for fiscalisation of Denmark.

## Enums

### [CashTransactionType](#)

# Class AmountNumber

## Inheritance

[object](#)

AmountNumber

[ReportElement](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AmountNumber
```

## Properties

### Amount

#### Declaration

```
public decimal Amount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### Number

#### Declaration

```
public decimal Number { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)



# Enum CashTransactionType

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CashTransactionType
```

## Fields

Name	Description
CashAndCreditSale	
CashDeclaration	
CashDifference	
CashSale	
CashSaleAndReturn	
Correction	
CreditSale	
CreditSaleAndReturn	
InPayment	
InventoryStock	
Other	
OutPayment	
Payment	
Purchase	
ReceivingPayment	
ReturnPayment	
ReturnProducts	
TradeInExchange	

# Class ClientConfiguration

Client configuration for denmark.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

#### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

#### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

#### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

## Implements

[IFiscalImplementationConfiguration](#)

# Class DenmarkFiscalProperties

Properties for denmark.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>](#)

DenmarkFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DenmarkFiscalProperties : FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

**Type Description**

[Version](#)

**Overrides**

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.CountryModuleVersion](#)

**CustomerDisplayMandatory**

True if the customer display fiscal interface has to be implemented; otherwise false.

**Declaration**

```
public override bool CustomerDisplayMandatory { get; }
```

**Property Value**

**Type Description**

[bool](#)

**Overrides**

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

**FiscalCountry**

The fiscal country for this property collection.

**Declaration**

```
public override FiscalCountry FiscalCountry { get; }
```

**Property Value**

**Type Description**

[FiscalCountry](#)

**Overrides**

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.FiscalCountry](#)

**FiscalDocumentTypes**

Returns a list of all fiscal necessary document types for this country.

**Declaration**

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

**Property Value**

**Type Description**

[List<DocumentType>](#)

**Overrides**

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

**Remarks**

Fiscal document types will be signed and exported through saf-t export, supported document types not.

**FiscalLineInterface**

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

**Declaration**

```
public override bool FiscalLineInterface { get; }
```

**Property Value**

**Type Description**

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.FiscalLineInterface](#)

### GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

#### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### Property Value

#### Type Description

[string](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### Remarks

Return empty string if there is not cloud

### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

#### Property Value

#### Type Description

[int](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

### MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

#### Property Value

#### Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

#### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

#### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

#### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

## ReprintAllowedDomain

Returns the domain within reprints are allowed.

### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

## ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

## ReturnDomainAllowed

Returns the domain where document references are allowed.

### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

## ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

### Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

## SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```



## Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

## SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

## Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

## Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

## Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

## SupportedPaymentTypes

Returns a list of all supported payment types.

## Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

## Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

## SupportedVatDefinitions

Returns the supported vat definitions for this country.

## Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

## Property Value

Type	Description
------	-------------

[ReadOnlyCollection<Vat>](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

## SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

## Declaration

```
public override bool SurchargesPossible { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.SurchargesPossible](#)

## TaxFreeVat

The tax free vat class for this country.

## Declaration

```
public override Vat TaxFreeVat { get; }
```

## Property Value

## Type Description

[Vat](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

## Declaration

```
public override bool TrainingModeAllowed { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

## Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class DenmarkFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for austrian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
DenmarkFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Denmark](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class DenmarkFiscalisationRequiredAttribute : RequiredAttribute
```

# Class DenmarkValidation

## Inheritance

[object](#)

DenmarkValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DenmarkValidation
```

## Fields

### EventCodeMapping

#### Declaration

```
public static Dictionary<LogEntryType, string> EventCodeMapping
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;LogEntryType, string&gt;</a>	

### LineTypeMapping

#### Declaration

```
public static Dictionary<int, (DocumentPositionType, BusinessTransactionType?)> LineTypeMapping
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;int, (DocumentPositionType, BusinessTransactionType?)&gt;</a>	

### PaymentTypeMapping

#### Declaration

```
public static Dictionary<PaymentType, string> PaymentTypeMapping
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;PaymentType, string&gt;</a>	

### StandardVatCodeDictionary

Standard-vat code dictionary for saf-t export.

#### Declaration

```
public static readonly ReadOnlyDictionary<int, int> StandardVatCodeDictionary
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;int, int&gt;</a>	

#### Remarks

Key = VatIdentification Value = Standard-Vat Code Denmark SAF-T

#### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Methods

##### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

## Class FiscalResponseDenmark

Representation for fiscal response denmark (additional fields)

### Inheritance

[object](#)

FiscalResponseDenmark

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseDenmark
```

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponseDenmark(int, List<DocumentTaxPosition>, long, string, string, string, string, string, string)

Returns the fiscal response for austria out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseDenmark(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, str:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	keyVersion	The key version of the signature.
<a href="#">string</a>	signedData	The signed data string.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for austria.

#### KeyVersion(FiscalResponse)

Returns the key version of the signature.

#### Declaration

```
public static string KeyVersion(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**  
[string](#)

**SignedData(FiscalResponse)**

Returns the key version of the signature.

**Declaration**

```
public static string SignedData(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**  
[string](#)



# Class ListExtension

## Inheritance

[object](#)

ListExtension

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class ListExtension
```

## Methods

**AddOrUpdate<TElement>(List<TElement>, TElement, Func<TElement, object>, Action<TElement, TElement>)**

## Declaration

```
public static void AddOrUpdate<TElement>(this List<TElement> list, TElement newElement, Func<TElement, object> keyPredicate, Action<TElement, TElement> update)
```

## Parameters

Type	Name	Description
<a href="#">List&lt;TElement&gt;</a>	list	
TElement	newElement	
<a href="#">Func&lt;TElement, object&gt;</a>	keyPredicate	
<a href="#">Action&lt;TElement, TElement&gt;</a>	update	

## Type Parameters

### Name Description

TElement

# Class ReportElement

## Inheritance

[object](#)  
[AmountNumber](#)  
[ReportElement](#)  
[ReportElementEmployee](#)

## Inherited Members

[AmountNumber.Amount](#)  
[AmountNumber.Number](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReportElement : AmountNumber
```

## Properties

### Key

#### Declaration

```
public string Key { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class ReportElementEmployee

## Inheritance

[object](#)  
[AmountNumber](#)  
[ReportElement](#)  
ReportElementEmployee

## Inherited Members

[ReportElement.Key](#)  
[AmountNumber.Amount](#)  
[AmountNumber.Number](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReportElementEmployee : ReportElement
```

## Properties

### CombinedKey

#### Declaration

```
public string CombinedKey { get; }
```

#### Property Value

#### Type Description

[string](#)

### EmployeeKey

#### Declaration

```
public string EmployeeKey { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class SaftGenerator

Creates an saft auditfile (denmark).

## Inheritance

[object](#)  
SaftGenerator

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SaftGenerator
```

## Remarks

Supports Version 1.2.1 of legislation.

## Constructors

### SaftGenerator(string, FiscalClient, string)

#### Declaration

```
public SaftGenerator(string userId, FiscalClient fiscalClient, string certificatePem)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	userId	
<a href="#">FiscalClient</a>	fiscalClient	
<a href="#">string</a>	certificatePem	

## Methods

### GenerateAuditFile()

Generates the audit file from the given data.

#### Declaration

```
public auditfile GenerateAuditFile()
```

#### Returns

Type	Description
------	-------------

[auditfile](#) An [auditfile](#) object representing the audit file for denmark.

#### Remarks

Please take care to call [PushDocument\(StoredDocument\)](#) for all the necessary documents in front of generating the audit file.

### GenerateAuditFile(Stream)

Generates the audit file as xml and writes it to the given stream.

#### Declaration

```
public void GenerateAuditFile(Stream stream)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Stream](#) stream The stream to write the audit file as xml.

#### Remarks

Please take care to call [PushDocument\(StoredDocument\)](#) for all the necessary documents in front of generating the audit file.

### GenerateAuditFileBasics(HashSet<string>, Dictionary<string, string>)

#### Declaration

```
public static auditfileCompanyBasic[] GenerateAuditFileBasics(HashSet<string> transactionCodes, Dictionary<string, string> itemGroups)
```

#### Parameters

Type	Name	Description
<a href="#">HashSet&lt;string&gt;</a>	transactionCodes	
<a href="#">Dictionary&lt;string, string&gt;</a>	itemGroups	

#### Returns

Type	Description
------	-------------

[auditfileCompanyBasic\[\]](#)

### GetCashTransactionFromDocument(Document, FiscalResponse, Dictionary<string, string>, List<auditfileCompanyPeriodsPeriod>, string)

#### Declaration

```
public static auditfileCompanyLocationCashregisterCashtransaction GetCashTransactionFromDocument(Document document, FiscalResponse fiscalResponse, Dictionary<string, string> item
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">FiscalResponse</a>	fiscalResponse	
<a href="#">Dictionary&lt;string, string&gt;</a>	itemGroupDictionary	
<a href="#">List&lt;auditfileCompanyPeriodsPeriod&gt;</a>	periods	
<a href="#">string</a>	certificatePem	

#### Returns

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransaction</a>	

### GetCountryCode(FiscalCountry)

Returns the [Countrycode](#) from the [FiscalCountry](#).

#### Declaration

```
public static Countrycode GetCountryCode(FiscalCountry fiscalCountry)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalCountry</a>	fiscalCountry	The fiscal country to match.

#### Returns

Type	Description
<a href="#">Countrycode</a>	The <a href="#">Countrycode</a> from the <a href="#">FiscalCountry</a> .

### GetCurrencyCode(string)

Returns the [Currencycode](#) from string.

#### Declaration

```
public static Currencycode GetCurrencyCode(string currencyIsoCode)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	currencyIsoCode	A string which should be parsed to a <a href="#">Currencycode</a> .

#### Returns

Type	Description
<a href="#">Currencycode</a>	The <a href="#">Currencycode</a> from string.

#### Exceptions

Type	Condition
<a href="#">NotSupportedException</a>	Thrown if the given string cannot be converted to a <a href="#">Currencycode</a> .

### GetDebitCreditCode(DocumentType)

#### Declaration

```
public static Debitcredittype GetDebitCreditCode(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	

#### Returns

Type	Description
<a href="#">Debitcredittype</a>	

### GetRounding(Document)

#### Declaration

```
public static auditfileCompanyLocationCashregisterCashtransactionRounding GetRounding(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransactionRounding</a>	

### **GefTransactionCode(DocumentType, int, int, bool)**

#### **Declaration**

```
public static string GetTransactionCode(DocumentType documentType, int posCount = 0, int returnPosCount = 0, bool creditSale = false)
```

#### **Parameters**

Type	Name	Description
<a href="#">DocumentType</a>	documentType	
<a href="#">int</a>	posCount	
<a href="#">int</a>	returnPosCount	
<a href="#">bool</a>	creditSale	

#### **Returns**

#### **Type Description**

[string](#)

### **MapAddress<TAddress>(Address)**

Maps an [Address](#) object to an object implementing [ISaftAddress](#).

#### **Declaration**

```
public static TAddress[] MapAddress<TAddress>(Address address) where TAddress : class, ISaftAddress, new()
```

#### **Parameters**

Type	Name	Description
<a href="#">Address</a>	address	The address to map.

#### **Returns**

Type	Description
<a href="#">TAddress[]</a>	An object implementing <a href="#">ISaftAddress</a> representing the mapped address.

#### **Type Parameters**

Name	Description
<a href="#">TAddress</a>	An object implementing <a href="#">ISaftAddress</a> .

### **MapPositions(Document, Dictionary<string, string>)**

#### **Declaration**

```
public static auditfileCompanyLocationCashregisterCashtransactionCtLine[] MapPositions(Document document, Dictionary<string, string> itemGroupDictionary)
```

#### **Parameters**

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">Dictionary&lt;string, string&gt;</a>	itemGroupDictionary	

#### **Returns**

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransactionCtLine[]</a>	

### **MapVatPosition(DocumentPositionVatPosition)**

#### **Declaration**

```
public static auditfileCompanyLocationCashregisterCashtransactionCtLineVat MapVatPosition(DocumentPositionVatPosition position)
```

#### **Parameters**

Type	Name	Description
<a href="#">DocumentPositionVatPosition</a>	position	

#### **Returns**

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransactionCtLineVat</a>	

### **PushAuditLog(AuditLogEntry)**

Adds an audit log entry to the sa-ft export. Please take care to only add document once.

#### **Declaration**

```
public void PushAuditLog(AuditLogEntry auditLogEntry)
```

#### **Parameters**

Type	Name	Description
<a href="#">AuditLogEntry</a>	auditLogEntry	The <a href="#">AuditLogEntry</a> to add.

**Exceptions**

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>auditLogEntry</code> is set to null.
---------------------------------------	--

**PushDocument(StoredDocument)**

Adds an document to the saf-t export. Please take care to only add document once.

**Declaration**

```
public void PushDocument(StoredDocument storedDocument)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">StoredDocument</a>	<code>storedDocument</code>	The document (including FiscalResponse) to add.
--------------------------------	-----------------------------	---

**Exceptions**

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>storedDocument</code> is set to null.
---------------------------------------	---

<a href="#">ArgumentException</a>	Thrown if property <a href="#">Document</a> of parameter <code>storedDocument</code> is set to null.
-----------------------------------	--

**TryGetCountryCodeIso(string, out Countrycode?)****Declaration**

```
public static bool TryGetCountryCodeIso(string countryCodeAlpha3, out Countrycode? countryCode)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	<code>countryCodeAlpha3</code>	
------------------------	--------------------------------	--

<a href="#">Countrycode?</a>	<code>countryCode</code>	
------------------------------	--------------------------	--

**Returns****Type Description**

<a href="#">bool</a>	
----------------------	--

# Class TrustedFiscalModuleDenmark

Implementation for fiscalisation of Denmark.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>](#)  
[TrustedFiscalModuleDenmark](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleDenmark : TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>, IFisc
```

## Constructors

**TrustedFiscalModuleDenmark(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleDenmark(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, C
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields



## UniqueCashRegisterCountrySeparator

The country separator for denmark.

### Declaration

```
public const char UniqueCashRegisterCountrySeparator = '/'
```

### Field Value

### Type Description

[char](#)

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancel a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CancelDocument\(Document\)](#)

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DecommissionClient\(Document\)](#)

#### ExportSaft(Stream, string, DateTime, DateTime, bool)

Exports denmark saft format to the given stream (signed with oces certificate).

#### Declaration

```
public void ExportSaft(Stream outputStream, string userId, DateTime fromDate, DateTime tillDate, bool plainXml = true)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	outputStream	The stream to write the saft export.
<a href="#">string</a>	userId	The id of the user exporting the data.
<a href="#">DateTime</a>	fromDate	Date from the export should be started.
<a href="#">DateTime</a>	tillDate	Date till the export should be started.
<a href="#">bool</a>	plainXml	Set to true to export only xml without signing; otherwise to false. Default is true.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>outputStream</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>userId</code> is set to null or <a href="#">Empty</a> .

#### ExportSaft(string, DateTime, DateTime)

Exports denmark saft format to [auditfile](#) object.

#### Declaration

```
public auditfile ExportSaft(string userId, DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	userId	The id of the user exporting the data.
<a href="#">DateTime</a>	fromDate	Date from the export should be started.
<a href="#">DateTime</a>	tillDate	Date till the export should be started.

#### Returns

Type	Description
<a href="#">auditfile</a>	An <a href="#">auditfile</a> object representing the denmark saft format export.

#### Exceptions

**Type** **Condition**

[ArgumentNullException](#) Thrown if parameter `userId` is set to null or [Empty](#).

### GetSignatureInterface()

Returns a X509 signature interface based on the terminal certificate file.

#### Declaration

```
protected override ISignatureInterface GetSignatureInterface()
```

#### Returns

**Type** **Description**

[ISignatureInterface](#) A [X509SignatureInterface](#) object representing the signature interface for this terminal.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetSignatureInterface\(\)](#)

#### Remarks

If certificate is out of date, certificate will be downloaded again from cloud.

### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

**Type** **Description**

[string](#) The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

**Type** **Name** **Description**

[Document](#) startDocument A document of type [NullReceipt](#) representing the starting document of the fiscalisation.

#### Returns

**Type** **Description**

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.InitializeClient\(Document\)](#)

### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

**Type** **Name** **Description**

[string](#) serviceUrl The service url of the other fiscal system

[string](#) param1 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param2 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param3 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param4 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param5 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	<code>importFile</code>	The file to import for migration.
<a href="#">string</a>	<code>param1</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param2</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param3</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param4</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param5</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	<code>document</code>	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	
--------------------------	----------	--

<a href="#">bool</a>	reprintDocument	
----------------------	-----------------	--

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;DocumentValidationError&gt;</a>	
---	--

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Denmark.Model

## Classes

[CanonicalizationMethodType](#)

[DSAKeyValue Type](#)

[DigestMethodType](#)

[KeyInfoType](#)

[KeyValue Type](#)

[ManifestType](#)

[ObjectType](#)

[PGPDataType](#)

[RSAKeyValue Type](#)

[Reference Type](#)

[RetrievalMethodType](#)

[SPKIDDataType](#)

[SignatureMethodType](#)

[SignatureProperties Type](#)

[SignaturePropertyType](#)

[Signature Type](#)

[Signature Value Type](#)

[SignedInfoType](#)

[TransformType](#)

[Transforms Type](#)

[X509DataType](#)

[X509IssuerSerialType](#)

[auditfile](#)

[auditfileCompany](#)

[auditfileCompanyArticle](#)

[auditfileCompanyBasic](#)

[auditfileCompanyCustomerSupplier](#)

[auditfileCompanyCustomerSupplierPostalAddress](#)

[auditfileCompanyCustomerSupplierStreetAddress](#)

[auditfileCompanyEmployeesEmployee](#)

[auditfileCompanyEmployeesEmployeeEmployeeRole](#)

[auditfileCompanyLedgerAccount](#)

[auditfileCompanyLocation](#)

[auditfileCompanyLocationCashregister](#)

[auditfileCompanyLocationCashregisterCashtransaction](#)

[auditfileCompanyLocationCashregisterCashtransactionCtLine](#)

[auditfileCompanyLocationCashregisterCashtransactionCtLineDiscount](#)

[auditfileCompanyLocationCashregisterCashtransactionCtLineRaise](#)

[auditfileCompanyLocationCashregisterCashtransactionCtLineSavings](#)

[auditfileCompanyLocationCashregisterCashtransactionCtLineVat](#)

[auditfileCompanyLocationCashregisterCashtransactionDiscount](#)

[auditfileCompanyLocationCashregisterCashtransactionPayment](#)

[auditfileCompanyLocationCashregisterCashtransactionRaise](#)

[auditfileCompanyLocationCashregisterCashtransactionRounding](#)

[auditfileCompanyLocationCashregisterCashtransactionSavings](#)

[auditfileCompanyLocationCashregisterCashtransactionVat](#)

[auditfileCompanyLocationCashregisterEvent](#)

[auditfileCompanyLocationCashregisterEventEventReport](#)

[auditfileCompanyLocationCashregisterEventEventReportReportArtGroup](#)

[auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat](#)

[auditfileCompanyLocationCashregisterEventEventReportReportCorrLine](#)

[auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos](#)

[auditfileCompanyLocationCashregisterEventEventReportReportCreditSales](#)

[auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup](#)

[auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat](#)

[auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment](#)

[auditfileCompanyLocationCashregisterEventEventReportReportOtherCorr](#)

[auditfileCompanyLocationCashregisterEventEventReportReportPayIn](#)

[auditfileCompanyLocationCashregisterEventEventReportReportPayOut](#)

[auditfileCompanyLocationCashregisterEventEventReportReportPayment](#)

[auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry](#)

[auditfileCompanyLocationCashregisterEventEventReportReportTip](#)

[auditfileCompanyLocationCashregisterEventEventReportReportTotalCashSales](#)

[auditfileCompanyLocationStreetAddress](#)

[auditfileCompanyPeriodsPeriod](#)

[auditfileCompanyPostalAddress](#)

[auditfileCompanyStreetAddress](#)

[auditfileCompanyVatCodeDetail](#)

[auditfileHeader](#)

[auditfileHeaderAuditfileSender](#)

[auditfileHeaderAuditfileSenderPostalAddress](#)

[auditfileHeaderAuditfileSenderStreetAddress](#)

## **Interfaces**

[ISaftAddress](#)

## **Enums**

[Countrycode](#)

[Currencycode](#)

[Custsuptype](#)

[Debitcredittype](#)

[ItemsChoiceType](#)

[ItemsChoiceType1](#)

[ItemsChoiceType2](#)

[Reporttypestring](#)



# Class CanonicalizationMethodType

## Inheritance

[object](#)

CanonicalizationMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class CanonicalizationMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

# Enum Countrycode

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Countrycode
```

## Fields

### Name Description

AD  
AE  
AF  
AG  
AI  
AL  
AM  
AN  
AO  
AQ  
AR  
AS  
AT  
AU  
AW  
AX  
AZ  
BA  
BB  
BD  
BE  
BF  
BG  
BH  
BI  
BJ  
BL  
BM  
BN  
BO  
BQ  
BR  
BS  
BT  
BV  
BW  
BY  
BZ  
CA  
CC  
CD  
CF

**Name Description**

CG

CH

CI

CK

CL

CM

CN

CO

CR

CS

CU

CV

CW

CX

CY

CZ

DE

DJ

DK

DM

DO

DZ

EC

EE

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FJ

FK

FM

FO

FR

GA

GB

GD

GE

GF

GG

GH

GI

GL

GM

GN

GP

GQ

GR

GS

GT

GU

**Name Description**

GW  
GY  
HK  
HM  
HN  
HR  
HT  
HU  
ID  
IE  
IL  
IM  
IN  
IO  
IQ  
IR  
IS  
IT  
JE  
JM  
JO  
JP  
KE  
KG  
KH  
KI  
KM  
KN  
KP  
KR  
KW  
KY  
KZ  
LA  
LB  
LC  
LI  
LK  
LR  
LS  
LT  
LU  
LV  
LY  
MA  
MC  
MD  
ME  
MF  
MG  
MH  
MK  
ML

**Name Description**

MM  
MN  
MO  
MP  
MQ  
  
MR  
MS  
MT  
MU  
MV  
MW  
MX  
MY  
MZ  
NA  
NC  
NE  
NF  
NG  
NI  
NL  
NO  
NP  
NR  
NU  
NZ  
OM  
PA  
PE  
PF  
PG  
PH  
PK  
PL  
PM  
PN  
PR  
PS  
PT  
PW  
PY  
QA  
RE  
RO  
RS  
RU  
RW  
SA  
SB  
SC  
SD  
SE

**Name Description**

SG  
SH  
SI  
SJ  
SK  
SL  
SM  
SN  
SO  
SR  
SS  
ST  
SV  
SX  
SY  
SZ  
TC  
TD  
TF  
TG  
TH  
TJ  
TK  
TL  
TM  
TN  
TO  
TR  
TT  
TV  
TW  
TZ  
UA  
UG  
UK  
UM  
US  
UY  
UZ  
VA  
VC  
VE  
VG  
VI  
VN  
VU  
WF  
WS  
YE  
YT  
ZA  
ZM  
ZW



# Enum Currencycode

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Currencycode
```

## Fields

### Name Description

DKK

EUR



# Enum Custsuptype

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Custsuptype
```

## Fields

Name	Description
Customer	
Supplier	

# Class DSAKeyValue

## Inheritance

[object](#)  
DSAKeyValue

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DSAKeyValue
```

## Properties

### G

#### Declaration

```
public byte[] G { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### J

#### Declaration

```
public byte[] J { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### P

#### Declaration

```
public byte[] P { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

## PgenCounter

#### Declaration

```
public byte[] PgenCounter { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Q**

**Declaration**

```
public byte[] Q { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Seed**

**Declaration**

```
public byte[] Seed { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Y**

**Declaration**

```
public byte[] Y { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

# Enum Debitcredittype

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Debitcredittype
```

## Fields

### Name Description

C  
D

# Class DigestMethodType

## Inheritance

[object](#)

DigestMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DigestMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

# Interface ISaftAddress

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISaftAddress
```

## Properties

### city

#### Declaration

```
string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### country

#### Declaration

```
Countrycode country { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Countrycode](#)

### countrySpecified

#### Declaration

```
bool countrySpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### number

#### Declaration

```
string number { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### postalCode

#### Declaration

```
string postalCode { get; set; }
```

#### Property Value

## Type Description

[string](#)

## streetname

### Declaration

```
string streetname { get; set; }
```

### Property Value

## Type Description

[string](#)

# Enum ItemsChoiceType

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType
```

## Fields

Name	Description
Item	
X509CRL	
X509Certificate	
X509IssuerSerial	
X509SKI	
X509SubjectName	



# Enum ItemsChoiceType1

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType1
```

## Fields

Name	Description
Item	
PGPKeyID	
PGPKeyPacket	

# Enum ItemsChoiceType2

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType2
```

## Fields

Name	Description
Item	
KeyName	
KeyValue	
MgmtData	
PGPData	
RetrievalMethod	
SPKIData	
X509Data	

# Class KeyInfoType

## Inheritance

[object](#)  
KeyInfoType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class KeyInfoType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType2[] ItemsElementName { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ItemsChoiceType2[]</a>	
------------------------------------	--

## Text

### Declaration

```
public string[] Text { get; set; }
```

**Property Value**

**Type Description**

[string\[\]](#)

# Class KeyValue Type

## Inheritance

[object](#)

KeyValue Type

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class KeyValue Type
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

# Class ManifestType

## Inheritance

[object](#)

ManifestType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ManifestType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Reference

#### Declaration

```
public ReferenceType[] Reference { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReferenceType[]</a>	

# Class ObjectType

## Inheritance

[object](#)

ObjectType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ObjectType
```

## Properties

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

### Encoding

#### Declaration

```
public string Encoding { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### MimeType

#### Declaration

```
public string MimeType { get; set; }
```

**Property Value**

**Type Description**

[string](#)



# Class PGPDDataType

## Inheritance

[object](#)  
PGPDDataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PGPDDataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType1[] ItemsElementName { get; set; }
```

#### Property Value

Type	Description
<a href="#">ItemsChoiceType1[]</a>	

# Class RSAKeyValueType

## Inheritance

[object](#)

RSAKeyValueType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RSAKeyValueType
```

## Properties

### Exponent

#### Declaration

```
public byte[] Exponent { get; set; }
```

#### Property Value

#### Type Description

[byte](#)[]

### Modulus

#### Declaration

```
public byte[] Modulus { get; set; }
```

#### Property Value

#### Type Description

[byte](#)[]

# Class ReferenceType

## Inheritance

[object](#)  
ReferenceType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ReferenceType
```

## Properties

### DigestMethod

#### Declaration

```
public DigestMethodType DigestMethod { get; set; }
```

#### Property Value

Type	Description
<a href="#">DigestMethodType</a>	

### DigestValue

#### Declaration

```
public byte[] DigestValue { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Transforms

### Declaration

```
public TransformType[] Transforms { get; set; }
```

**Property Value**

Type	Description
<a href="#">TransformType[]</a>	

**Type**

**Declaration**

```
public string Type { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**URI**

**Declaration**

```
public string URI { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Enum Reporttypestring

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Reporttypestring
```

## Fields

Name	Description
------	-------------

Xreport	
---------	--

Zreport	
---------	--

# Class RetrievalMethodType

## Inheritance

[object](#)

RetrievalMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RetrievalMethodType
```

## Properties

### Transforms

#### Declaration

```
public TransformType[] Transforms { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	

### Type

#### Declaration

```
public string Type { get; set; }
```

#### Property Value

### Type Description

[string](#)

### URI

#### Declaration

```
public string URI { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class SPKIDataType

## Inheritance

[object](#)  
SPKIDataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SPKIDataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

#### Type Description

[object\[\]](#)

# Class SignatureMethodType

## Inheritance

[object](#)

SignatureMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

### Type Description

[XmlNode\[\]](#)

### HMACOutputLength

#### Declaration

```
public string HMACOutputLength { get; set; }
```

#### Property Value

### Type Description

[string](#)



# Class SignaturePropertiesType

## Inheritance

[object](#)

SignaturePropertiesType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignaturePropertiesType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SignatureProperty

#### Declaration

```
public SignaturePropertyType[] SignatureProperty { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignaturePropertyType[]</a>	

# Class SignaturePropertyType

## Inheritance

[object](#)

SignaturePropertyType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignaturePropertyType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public XmlElement[] Items { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlElement[]</a>	
------------------------------	--

### Target

#### Declaration

```
public string Target { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

**Property Value**

**Type Description**

[string\[\]](#)

# Class SignatureType

## Inheritance

[object](#)

SignatureType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### KeyInfo

#### Declaration

```
public KeyInfoType KeyInfo { get; set; }
```

#### Property Value

Type	Description
------	-------------

[KeyInfoType](#)

### Object

#### Declaration

```
public ObjectType[] Object { get; set; }
```

#### Property Value

Type	Description
------	-------------

[ObjectType\[\]](#)

### SignatureValue

#### Declaration

```
public SignatureValueType SignatureValue { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignatureValueType</a>	

**SignedInfo**

**Declaration**

```
public SignedInfoType SignedInfo { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignedInfoType</a>	

# Class SignatureValueType

## Inheritance

[object](#)

SignatureValueType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureValueType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Value

#### Declaration

```
public byte[] Value { get; set; }
```

#### Property Value

### Type Description

[byte\[\]](#)

# Class SignedInfoType

## Inheritance

[object](#)  
SignedInfoType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignedInfoType
```

## Properties

### CanonicalizationMethod

#### Declaration

```
public CanonicalizationMethodType CanonicalizationMethod { get; set; }
```

#### Property Value

Type	Description
<a href="#">CanonicalizationMethodType</a>	

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Reference

#### Declaration

```
public ReferenceType[] Reference { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReferenceType[]</a>	

### SignatureMethod

#### Declaration

```
public SignatureMethodType SignatureMethod { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignatureMethodType</a>	



# Class TransformType

## Inheritance

[object](#)

TransformType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TransformType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

### Type Description

[object\[\]](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

# Class TransformsType

## Inheritance

[object](#)

TransformsType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TransformsType
```

## Properties

### Transform

#### Declaration

```
public TransformType[] Transform { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	

# Class X509DataType

## Inheritance

[object](#)  
X509DataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class X509DataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType[] ItemsElementName { get; set; }
```

#### Property Value

##### Type Description

[ItemsChoiceType\[\]](#)

# Class X509IssuerSerialType

## Inheritance

[object](#)

X509IssuerSerialType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class X509IssuerSerialType
```

## Properties

### X509IssuerName

#### Declaration

```
public string X509IssuerName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### X509SerialNumber

#### Declaration

```
public string X509SerialNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class auditfile

## Inheritance

[object](#)  
auditfile

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfile
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Signature

#### Declaration

```
public SignatureType Signature { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignatureType</a>	

### company

#### Declaration

```
public auditfileCompany company { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompany</a>	

### header

#### Declaration

```
public auditfileHeader header { get; set; }
```

**Property Value**

Type	Description
<a href="#">auditfileHeader</a>	

# Class auditfileCompany

## Inheritance

[object](#)

auditfileCompany

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompany
```

## Properties

### articles

#### Declaration

```
public auditfileCompanyArticle[] articles { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyArticle[]</a>	

### basics

#### Declaration

```
public auditfileCompanyBasic[] basics { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyBasic[]</a>	

### companyIdent

#### Declaration

```
public string companyIdent { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### companyName

#### Declaration

```
public string companyName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**customersSuppliers**

**Declaration**

```
public auditfileCompanyCustomerSupplier[] customersSuppliers { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyCustomerSupplier\[\]](#)

**employees**

**Declaration**

```
public auditfileCompanyEmployeesEmployee[][] employees { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyEmployeesEmployee\[\]\[\]](#)

**generalLedger**

**Declaration**

```
public auditfileCompanyLedgerAccount[] generalLedger { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLedgerAccount\[\]](#)

**location**

**Declaration**

```
public auditfileCompanyLocation[] location { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLocation\[\]](#)

**periods**

**Declaration**

```
public auditfileCompanyPeriodsPeriod[][] periods { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyPeriodsPeriod\[\]\[\]](#)



## postalAddress

### Declaration

```
public auditfileCompanyPostalAddress[] postalAddress { get; set; }
```

### Property Value

Type	Description
<a href="#">auditfileCompanyPostalAddress[]</a>	

## streetAddress

### Declaration

```
public auditfileCompanyStreetAddress[] streetAddress { get; set; }
```

### Property Value

Type	Description
<a href="#">auditfileCompanyStreetAddress[]</a>	

## taxRegIdent

### Declaration

```
public string taxRegIdent { get; set; }
```

### Property Value

### Type Description

[string](#)

## taxRegistrationCountry

### Declaration

```
public Countrycode taxRegistrationCountry { get; set; }
```

### Property Value

Type	Description
<a href="#">Countrycode</a>	

## vatCodeDetails

### Declaration

```
public auditfileCompanyVatCodeDetail[] vatCodeDetails { get; set; }
```

### Property Value

Type	Description
<a href="#">auditfileCompanyVatCodeDetail[]</a>	

# Class auditfileCompanyArticle

## Inheritance

[object](#)

auditfileCompanyArticle

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyArticle
```

## Properties

### artDesc

#### Declaration

```
public string artDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### artGroupID

#### Declaration

```
public string artGroupID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### artID

#### Declaration

```
public string artID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### dateOfEntry

#### Declaration

```
public DateTime dateOfEntry { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

# Class auditfileCompanyBasic

## Inheritance

[object](#)

auditfileCompanyBasic

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyBasic
```

## Properties

### basicDesc

#### Declaration

```
public string basicDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### basicID

#### Declaration

```
public string basicID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### basicType

#### Declaration

```
public string basicType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### predefinedBasicID

#### Declaration

```
public string predefinedBasicID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyCustomerSupplier

## Inheritance

[object](#)

auditfileCompanyCustomerSupplier

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyCustomerSupplier
```

## Properties

### contact

#### Declaration

```
public string contact { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### custSupID

#### Declaration

```
public string custSupID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### custSupName

#### Declaration

```
public string custSupName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### custSupType

#### Declaration

```
public CustsupType custSupType { get; set; }
```

#### Property Value

#### Type Description

[CustsupType](#)

#### eMail

#### Declaration

```
public string eMail { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### fax

#### Declaration

```
public string fax { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### postalAddress

#### Declaration

```
public auditfileCompanyCustomerSupplierPostalAddress[] postalAddress { get; set; }
```

#### Property Value

Type	Description
------	-------------

[auditfileCompanyCustomerSupplierPostalAddress\[\]](#)

#### streetAddress

#### Declaration

```
public auditfileCompanyCustomerSupplierStreetAddress[] streetAddress { get; set; }
```

#### Property Value

Type	Description
------	-------------

[auditfileCompanyCustomerSupplierStreetAddress\[\]](#)

#### taxRegIdent

#### Declaration

```
public string taxRegIdent { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## taxRegistrationCountry

### Declaration

```
public Countrycode taxRegistrationCountry { get; set; }
```

### Property Value

Type	Description
<a href="#">Countrycode</a>	

## taxRegistrationCountrySpecified

### Declaration

```
public bool taxRegistrationCountrySpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## telephone

### Declaration

```
public string telephone { get; set; }
```

### Property Value

### Type Description

[string](#)

## website

### Declaration

```
public string website { get; set; }
```

### Property Value

### Type Description

[string](#)



# Class auditfileCompanyCustomerSupplierPostalAddress

## Inheritance

[object](#)

auditfileCompanyCustomerSupplierPostalAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyCustomerSupplierPostalAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### country

#### Declaration

```
public Countrycode country { get; set; }
```

**Property Value**

**Type Description**

[Countrycode](#)

**countrySpecified**

**Declaration**

```
public bool countrySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**number**

**Declaration**

```
public string number { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**postalCode**

**Declaration**

```
public string postalCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**region**

**Declaration**

```
public string region { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**streetname**

**Declaration**

```
public string streetname { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyCustomerSupplierStreetAddress

## Inheritance

[object](#)

auditfileCompanyCustomerSupplierStreetAddress

## Implements

[ISaftAddress](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyCustomerSupplierStreetAddress : ISaftAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## country

### Declaration

```
public Countrycode country { get; set; }
```

### Property Value

Type	Description
<a href="#">Countrycode</a>	

## countrySpecified

### Declaration

```
public bool countrySpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## number

### Declaration

```
public string number { get; set; }
```

### Property Value

### Type Description

[string](#)

## postalCode

### Declaration

```
public string postalCode { get; set; }
```

### Property Value

### Type Description

[string](#)

## region

### Declaration

```
public string region { get; set; }
```

### Property Value

### Type Description

[string](#)

## streetname

### Declaration

```
public string streetname { get; set; }
```

### Property Value

**Type Description**

[string](#)

**Implements**

[ISaftAddress](#)

# Class auditfileCompanyEmployeesEmployee

## Inheritance

[object](#)

auditfileCompanyEmployeesEmployee

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyEmployeesEmployee
```

## Properties

### dateOfEntry

#### Declaration

```
public DateTime dateOfEntry { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### employeeRole

#### Declaration

```
public auditfileCompanyEmployeesEmployeeEmployeeRole[] employeeRole { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">auditfileCompanyEmployeesEmployeeEmployeeRole[]</a>	
---	--

### firstName

#### Declaration

```
public string firstName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**surName**

**Declaration**

```
public string surName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**timeOfEntry**

**Declaration**

```
public DateTime timeOfEntry { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

# Class auditfileCompanyEmployeesEmployeeEmployeeRole

## Inheritance

[object](#)

auditfileCompanyEmployeesEmployeeEmployeeRole

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyEmployeesEmployeeEmployeeRole
```

## Properties

### roleType

#### Declaration

```
public string roleType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### roleTypeDesc

#### Declaration

```
public string roleTypeDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)



# Class `auditfileCompanyLedgerAccount`

## Inheritance

[object](#)

`auditfileCompanyLedgerAccount`

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: `RetailForce.Fiscalisation.dll`

## Syntax

```
[Serializable]  
public class auditfileCompanyLedgerAccount
```

## Properties

### `accDesc`

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### `accID`

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class auditfileCompanyLocation

## Inheritance

[object](#)

auditfileCompanyLocation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocation
```

## Properties

### cashregister

#### Declaration

```
public auditfileCompanyLocationCashregister[] cashregister { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregister[]</a>	

### name

#### Declaration

```
public string name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### streetAddress

#### Declaration

```
public auditfileCompanyLocationStreetAddress[] streetAddress { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyLocationStreetAddress[]</a>	

# Class auditfileCompanyLocationCashregister

## Inheritance

[object](#)

auditfileCompanyLocationCashregister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregister
```

## Properties

### cashtransaction

#### Declaration

```
public auditfileCompanyLocationCashregisterCashtransaction[] cashtransaction { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransaction[]</a>	

### event

#### Declaration

```
public auditfileCompanyLocationCashregisterEvent[] @event { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEvent[]</a>	

### regDesc

#### Declaration

```
public string regDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### registerID

#### Declaration

```
public string registerID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransaction

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransaction

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransaction
```

## Properties

### amntTp

#### Declaration

```
public Debitcredittype amntTp { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Debitcredittype</a>	
---------------------------------	--

### bookDate

#### Declaration

```
public DateTime bookDate { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### bookDateSpecified

#### Declaration

```
public bool bookDateSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### bookTime

#### Declaration

```
public DateTime bookTime { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**bookTimeSpecified**

**Declaration**

```
public bool bookTimeSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**certificateData**

**Declaration**

```
public string certificateData { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ctLine**

**Declaration**

```
public auditfileCompanyLocationCashregisterCashtransactionCtLine[] ctLine { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLocationCashregisterCashtransactionCtLine\[\]](#)

**custSupID**

**Declaration**

```
public string custSupID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**desc**

**Declaration**

```
public string desc { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## discount

### Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionDiscount[] discount { get; set; }
```

### Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransactionDiscount[]</a>	

## empID

### Declaration

```
public string empID { get; set; }
```

### Property Value

### Type Description

[string](#)

## invoiceID

### Declaration

```
public string invoiceID { get; set; }
```

### Property Value

### Type Description

[string](#)

## keyVersion

### Declaration

```
public string keyVersion { get; set; }
```

### Property Value

### Type Description

[string](#)

## nr

### Declaration

```
public string nr { get; set; }
```

### Property Value

### Type Description

[string](#)

## payment

### Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionPayment[] payment { get; set; }
```

### Property Value

Type	Description
------	-------------

[auditfileCompanyLocationCashregisterCashtransactionPayment\[\]](#)

### periodNumber

#### Declaration

```
public string periodNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### raise

#### Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionRaise[] raise { get; set; }
```

#### Property Value

Type	Description
------	-------------

[auditfileCompanyLocationCashregisterCashtransactionRaise\[\]](#)

### receiptCopyNum

#### Declaration

```
public string receiptCopyNum { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### receiptDeliveryNum

#### Declaration

```
public string receiptDeliveryNum { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### receiptNum

#### Declaration

```
public string receiptNum { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### receiptProformaNum

#### Declaration



```
public string receiptProformaNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**refID**

**Declaration**

```
public string refID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**rounding**

**Declaration**

```
public auditfileCompanyLocationCashregisterCashtransactionRounding rounding { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLocationCashregisterCashtransactionRounding](#)

**savings**

**Declaration**

```
public auditfileCompanyLocationCashregisterCashtransactionSavings[] savings { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLocationCashregisterCashtransactionSavings\[\]](#)

**signature**

**Declaration**

```
public string signature { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**trainingID**

**Declaration**

```
public bool trainingID { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## **transAmntEx**

### **Declaration**

```
public decimal transAmntEx { get; set; }
```

### **Property Value**

#### **Type Description**

[decimal](#)

## **transAmntIn**

### **Declaration**

```
public decimal transAmntIn { get; set; }
```

### **Property Value**

#### **Type Description**

[decimal](#)

## **transDate**

### **Declaration**

```
public DateTime transDate { get; set; }
```

### **Property Value**

#### **Type Description**

[DateTime](#)

## **transID**

### **Declaration**

```
public string transID { get; set; }
```

### **Property Value**

#### **Type Description**

[string](#)

## **transTime**

### **Declaration**

```
public DateTime transTime { get; set; }
```

### **Property Value**

#### **Type Description**

[DateTime](#)

## **transType**

### **Declaration**

```
public string transType { get; set; }
```

### **Property Value**

## Type Description

[string](#)

### vat

#### Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionVat[] vat { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterCashtransactionVat[]</a>	

### voidTransaction

#### Declaration

```
public bool voidTransaction { get; set; }
```

#### Property Value

## Type Description

[bool](#)

# Class auditfileCompanyLocationCashregisterCashtransactionCtLine

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionCtLine

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterCashtransactionCtLine
```

## Properties

### amntTp

#### Declaration

```
public Debitcredittype amntTp { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Debitcredittype</a>	
---------------------------------	--

### artGroupID

#### Declaration

```
public string artGroupID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### artID

#### Declaration

```
public string artID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashTransLineDescr

#### Declaration

```
public string cashTransLineDescr { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**costID**

**Declaration**

```
public string costID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**costObjID**

**Declaration**

```
public string costObjID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**costPrice**

**Declaration**

```
public decimal costPrice { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**costPriceSpecified**

**Declaration**

```
public bool costPriceSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**discount**

**Declaration**

```
public auditfileCompanyLocationCashregisterCashtransactionCtLineDiscount[] discount { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLocationCashregisterCashtransactionCtLineDiscount\[\]](#)

## **empID**

### **Declaration**

```
public string empID { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **lineAmntEx**

### **Declaration**

```
public decimal lineAmntEx { get; set; }
```

### **Property Value**

### **Type Description**

[decimal](#)

## **lineAmntIn**

### **Declaration**

```
public decimal lineAmntIn { get; set; }
```

### **Property Value**

### **Type Description**

[decimal](#)

## **lineAmntInAccID**

### **Declaration**

```
public string lineAmntInAccID { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **lineDate**

### **Declaration**

```
public DateTime lineDate { get; set; }
```

### **Property Value**

### **Type Description**

[DateTime](#)

## **lineDateSpecified**

### **Declaration**

```
public bool lineDateSpecified { get; set; }
```

### **Property Value**

## Type Description

[bool](#)

### lineID

#### Declaration

```
public string lineID { get; set; }
```

#### Property Value

## Type Description

[string](#)

### lineTime

#### Declaration

```
public DateTime lineTime { get; set; }
```

#### Property Value

## Type Description

[DateTime](#)

### lineTimeSpecified

#### Declaration

```
public bool lineTimeSpecified { get; set; }
```

#### Property Value

## Type Description

[bool](#)

### lineType

#### Declaration

```
public string lineType { get; set; }
```

#### Property Value

## Type Description

[string](#)

### nr

#### Declaration

```
public string nr { get; set; }
```

#### Property Value

## Type Description

[string](#)

### ppu

#### Declaration

```
public decimal ppu { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**ppuSpecified**

**Declaration**

```
public bool ppuSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**projID**

**Declaration**

```
public string projID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**qnt**

**Declaration**

```
public decimal qnt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**qntSpecified**

**Declaration**

```
public bool qntSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**raise**

**Declaration**

```
public auditfileCompanyLocationCashregisterCashtransactionCtLineRaise[] raise { get; set; }
```

**Property Value**

**Type**

**Description**

[auditfileCompanyLocationCashregisterCashtransactionCtLineRaise\[\]](#)



## savings

### Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionCtLineSavings[] savings { get; set; }
```

### Property Value

Type	Description
<a href="#"><u>auditfileCompanyLocationCashregisterCashtransactionCtLineSavings[]</u></a>	

## vat

### Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionCtLineVat vat { get; set; }
```

### Property Value

Type	Description
<a href="#"><u>auditfileCompanyLocationCashregisterCashtransactionCtLineVat</u></a>	

# Class auditfileCompanyLocationCashregisterCashtransactionCtLineDiscount

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionCtLineDiscount

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterCashtransactionCtLineDiscount
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### dscAmnt

#### Declaration

```
public decimal dscAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### dscTp

#### Declaration

```
public string dscTp { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### emplID

#### Declaration

```
public string empID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionCtLineRaise

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionCtLineRaise

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionCtLineRaise
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### raiseAmnt

#### Declaration

```
public decimal raiseAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### raiseType

#### Declaration

```
public string raiseType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionCtLineSavings

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionCtLineSavings

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionCtLineSavings
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### savingsType

#### Declaration

```
public string savingsType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### savingsUnits

#### Declaration

```
public string savingsUnits { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionCtLineVat

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionCtLineVat

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionCtLineVat
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### vatAmnt

#### Declaration

```
public decimal vatAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### vatAmntTp

#### Declaration

```
public Debitcredittype vatAmntTp { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Debitcredittype](#)

### vatAmntTpSpecified

#### Declaration



```
public bool vatAmntTpSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**vatBasAmnt**

**Declaration**

```
public decimal vatBasAmnt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**vatBasAmntSpecified**

**Declaration**

```
public bool vatBasAmntSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**vatCode**

**Declaration**

```
public string vatCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**vatPerc**

**Declaration**

```
public decimal vatPerc { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**vatPercSpecified**

**Declaration**

```
public bool vatPercSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class auditfileCompanyLocationCashregisterCashtransactionDiscount

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionDiscount

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionDiscount
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### dscAmnt

#### Declaration

```
public decimal dscAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### dscTp

#### Declaration

```
public string dscTp { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### emplID

#### Declaration

```
public string empID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionPayment

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionPayment

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionPayment
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### curCode

#### Declaration

```
public Currencycode curCode { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Currencycode](#)

### curCodeSpecified

#### Declaration

```
public bool curCodeSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### emplID

#### Declaration

```
public string empID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**exchRt**

**Declaration**

```
public decimal exchRt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**exchRtSpecified**

**Declaration**

```
public bool exchRtSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**paidAmnt**

**Declaration**

```
public decimal paidAmnt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**paymentRefID**

**Declaration**

```
public string paymentRefID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**paymentType**

**Declaration**

```
public string paymentType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionRaise

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionRaise

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionRaise
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### raiseAmnt

#### Declaration

```
public decimal raiseAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### raiseType

#### Declaration

```
public string raiseType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionRounding

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionRounding

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionRounding
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### roundingAmnt

#### Declaration

```
public decimal roundingAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### roundingAmntSpecified

#### Declaration

```
public bool roundingAmntSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)



# Class auditfileCompanyLocationCashregisterCashtransactionSavings

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionSavings

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionSavings
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### savingsType

#### Declaration

```
public string savingsType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### savingsUnits

#### Declaration

```
public string savingsUnits { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterCashtransactionVat

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterCashtransactionVat

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterCashtransactionVat
```

## Properties

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### vatAmt

#### Declaration

```
public decimal vatAmt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### vatAmtTp

#### Declaration

```
public Debitcredittype vatAmtTp { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Debitcredittype](#)

### vatAmtTpSpecified

#### Declaration

```
public bool vatAmntTpSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**vatBasAmnt**

**Declaration**

```
public decimal vatBasAmnt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**vatBasAmntSpecified**

**Declaration**

```
public bool vatBasAmntSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**vatCode**

**Declaration**

```
public string vatCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**vatPerc**

**Declaration**

```
public decimal vatPerc { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**vatPercSpecified**

**Declaration**

```
public bool vatPercSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class auditfileCompanyLocationCashregisterEvent

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEvent

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEvent
```

## Properties

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### eventDate

#### Declaration

```
public DateTime eventDate { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### eventID

#### Declaration

```
public string eventID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### eventReport

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReport eventReport { get; set; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">auditfileCompanyLocationCashregisterEventEventReport</a>	
--	--

**eventText**

**Declaration**

```
public string eventText { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**eventTime**

**Declaration**

```
public DateTime eventTime { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**eventType**

**Declaration**

```
public string eventType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**transID**

**Declaration**

```
public string transID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReport

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReport

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEventEventReport
```

## Properties

### companyIdent

#### Declaration

```
public string companyIdent { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### companyName

#### Declaration

```
public string companyName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### registerID

#### Declaration

```
public string registerID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### reportArtGroups

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportArtGroup[] reportArtGroups { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportArtGroup[]</a>	

### reportCashSalesVat

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat[] reportCashSalesVat { get; set; }
```

Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat[]</a>	

**reportCorrLines**

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCorrLine[] reportCorrLines { get; set; }
```

Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportCorrLine[]</a>	

**reportCreditMemos**

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos reportCreditMemos { get; set; }
```

Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos</a>	

**reportCreditSales**

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCreditSales reportCreditSales { get; set; }
```

Property Value

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportCreditSales</a>	

**reportDate**

Declaration

```
public DateTime reportDate { get; set; }
```

Property Value

Type	Description
<a href="#">DateTime</a>	

**reportDiscountAmnt**

Declaration

```
public decimal reportDiscountAmnt { get; set; }
```

Property Value

Type	Description
<a href="#">decimal</a>	

**reportDiscountNum**

Declaration

```
public string reportDiscountNum { get; set; }
```

Property Value

Type	Description
<a href="#">string</a>	

**reportEmpArtGroups**



**Declaration**

```
public auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup[] reportEmpArtGroups { get; set; }
```

**Property Value**

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup[]</a>	

**reportEmpOpeningChangeFloats**

**Declaration**

```
public auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat[] reportEmpOpeningChangeFloats { get; set; }
```

**Property Value**

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat[]</a>	

**reportEmpPayments**

**Declaration**

```
public auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment[] reportEmpPayments { get; set; }
```

**Property Value**

Type	Description
<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment[]</a>	

**reportGrandTotalReturn**

**Declaration**

```
public decimal reportGrandTotalReturn { get; set; }
```

**Property Value**

Type	Description
<a href="#">decimal</a>	

**reportGrandTotalSales**

**Declaration**

```
public decimal reportGrandTotalSales { get; set; }
```

**Property Value**

Type	Description
<a href="#">decimal</a>	

**reportGrandTotalSalesNet**

**Declaration**

```
public decimal reportGrandTotalSalesNet { get; set; }
```

**Property Value**

Type	Description
<a href="#">decimal</a>	

**reportID**

**Declaration**

```
public string reportID { get; set; }
```

**Property Value**

**Type Description**

## Type Description

### reportOpenCashBoxNum

#### Declaration

```
public string reportOpenCashBoxNum { get; set; }
```

#### Property Value

## Type Description

[string](#)

### reportOpeningChangeFloat

#### Declaration

```
public decimal reportOpeningChangeFloat { get; set; }
```

#### Property Value

## Type Description

[decimal](#)

### reportOtherCorrs

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportOtherCorr[] reportOtherCorrs { get; set; }
```

#### Property Value

#### Type

#### Description

[auditfileCompanyLocationCashregisterEventEventReportReportOtherCorr\[\]](#)

### reportPayIns

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportPayIn[] reportPayIns { get; set; }
```

#### Property Value

#### Type

#### Description

[auditfileCompanyLocationCashregisterEventEventReportReportPayIn\[\]](#)

### reportPayOuts

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportPayOut[] reportPayOuts { get; set; }
```

#### Property Value

#### Type

#### Description

[auditfileCompanyLocationCashregisterEventEventReportReportPayOut\[\]](#)

### reportPayments

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportPayment[] reportPayments { get; set; }
```

#### Property Value

#### Type

#### Description

[auditfileCompanyLocationCashregisterEventEventReportReportPayment\[\]](#)

### reportPriceInquiries

#### Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry[] reportPriceInquiries { get; set; }
```

Property Value

	Type	Description
	<a href="#">auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry[]</a>	

### reportReceiptCopyAmnt

Declaration

```
public decimal reportReceiptCopyAmnt { get; set; }
```

Property Value

Type Description

[decimal](#)

### reportReceiptCopyNum

Declaration

```
public string reportReceiptCopyNum { get; set; }
```

Property Value

Type Description

[string](#)

### reportReceiptDeliveryAmnt

Declaration

```
public decimal reportReceiptDeliveryAmnt { get; set; }
```

Property Value

Type Description

[decimal](#)

### reportReceiptDeliveryNum

Declaration

```
public string reportReceiptDeliveryNum { get; set; }
```

Property Value

Type Description

[string](#)

### reportReceiptNum

Declaration

```
public string reportReceiptNum { get; set; }
```

Property Value

Type Description

[string](#)

### reportReceiptProformaAmnt

Declaration

```
public decimal reportReceiptProformaAmnt { get; set; }
```

Property Value

Type Description

[decimal](#)

### reportReceiptProformaNum

Declaration

```
public string reportReceiptProformaNum { get; set; }
```

Property Value

#### Type Description

[string](#)

#### reportReturnAmnt

Declaration

```
public decimal reportReturnAmnt { get; set; }
```

Property Value

#### Type Description

[decimal](#)

#### reportReturnNum

Declaration

```
public string reportReturnNum { get; set; }
```

Property Value

#### Type Description

[string](#)

#### reportTime

Declaration

```
public DateTime reportTime { get; set; }
```

Property Value

#### Type Description

[DateTime](#)

#### reportTip

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportTip reportTip { get; set; }
```

Property Value

**Type**

**Description**

[auditfileCompanyLocationCashregisterEventEventReportReportTip](#)

#### reportTotalCashSales

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportTotalCashSales reportTotalCashSales { get; set; }
```

Property Value

**Type**

**Description**

[auditfileCompanyLocationCashregisterEventEventReportReportTotalCashSales](#)

#### reportTrainingAmnt

Declaration

```
public decimal reportTrainingAmnt { get; set; }
```

Property Value

#### Type Description

[decimal](#)

## reportTrainingNum

### Declaration

```
public string reportTrainingNum { get; set; }
```

### Property Value

### Type Description

[string](#)

## reportType

### Declaration

```
public Reporttypestring reportType { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">Reporttypestring</a>	
----------------------------------	--

## reportVoidTransAmnt

### Declaration

```
public decimal reportVoidTransAmnt { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">decimal</a>	
-------------------------	--

## reportVoidTransNum

### Declaration

```
public string reportVoidTransNum { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportArtGroup

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportArtGroup

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEventEventReportReportArtGroup
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### artGroupAmnt

#### Declaration

```
public decimal artGroupAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### artGroupID

#### Declaration

```
public string artGroupID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**artGroupNum**

**Declaration**

```
public decimal artGroupNum { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashSaleAmnt

#### Declaration

```
public decimal cashSaleAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### vatAmnt

#### Declaration



```
public decimal vatAmnt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**vatAmntTp**

**Declaration**

```
public Debitcredittype vatAmntTp { get; set; }
```

**Property Value**

**Type Description**

[Debitcredittype](#)

**vatAmntTpSpecified**

**Declaration**

```
public bool vatAmntTpSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**vatCode**

**Declaration**

```
public string vatCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**vatPerc**

**Declaration**

```
public decimal vatPerc { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportCorrLine

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportCorrLine

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEventEventReportReportCorrLine
```

## Properties

### corrLineAmnt

#### Declaration

```
public decimal corrLineAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### corrLineNum

#### Declaration

```
public string corrLineNum { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### corrLineType

#### Declaration

```
public string corrLineType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### creditMemosAmnt

#### Declaration

```
public decimal creditMemosAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### creditMemosNum

#### Declaration

```
public string creditMemosNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportCreditSales

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportCreditSales

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportCreditSales
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### creditSalesAmnt

#### Declaration

```
public decimal creditSalesAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### creditSalesNum

#### Declaration

```
public string creditSalesNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### artGroupAmnt

#### Declaration

```
public decimal artGroupAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### artGroupID

#### Declaration

```
public string artGroupID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**artGroupNum**

**Declaration**

```
public decimal artGroupNum { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**empID**

**Declaration**

```
public string empID { get; set; }
```

**Property Value**

**Type Description**

[string](#)



## Class

# auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat

### Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### openingChangeFloatAmnt

#### Declaration

```
public decimal openingChangeFloatAmnt { get; set; }
```

Property Value

Type Description

[decimal](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### empID

#### Declaration

```
public string empID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### paymentAmnt

#### Declaration

```
public decimal paymentAmt { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**paymentNum**

**Declaration**

```
public string paymentNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**paymentType**

**Declaration**

```
public string paymentType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportOtherCorr

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportOtherCorr

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportOtherCorr
```

## Properties

### otherCorrAmnt

#### Declaration

```
public decimal otherCorrAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### otherCorrNum

#### Declaration

```
public string otherCorrNum { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### otherCorrType

#### Declaration

```
public string otherCorrType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportPayIn

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportPayIn

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportPayIn
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### payInAmnt

#### Declaration

```
public decimal payInAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### payInNum

#### Declaration

```
public string payInNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**payInType**

**Declaration**

```
public string payInType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportPayOut

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportPayOut

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEventEventReportReportPayOut
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### payOutAmnt

#### Declaration

```
public decimal payOutAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### payOutNum

#### Declaration



```
public string payOutNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**payOutType**

**Declaration**

```
public string payOutType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportPayment

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportPayment

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportPayment
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### paymentAmt

#### Declaration

```
public decimal paymentAmt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### paymentNum

#### Declaration

```
public string paymentNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**paymentType**

**Declaration**

```
public string paymentType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry
```

## Properties

### priceInquiryAmnt

#### Declaration

```
public decimal priceInquiryAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### priceInquiryGroup

#### Declaration

```
public string priceInquiryGroup { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### priceInquiryNum

#### Declaration

```
public string priceInquiryNum { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class auditfileCompanyLocationCashregisterEventEventReportReportTip

## Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportTip

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEventEventReportReportTip
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### tipAmnt

#### Declaration

```
public decimal tipAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### tipNum

#### Declaration

```
public string tipNum { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class

## auditfileCompanyLocationCashregisterEventEventReportReportTotalCashSales

### Inheritance

[object](#)

auditfileCompanyLocationCashregisterEventEventReportReportTotalCashSales

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
[Serializable]  
public class auditfileCompanyLocationCashregisterEventEventReportReportTotalCashSales
```

## Properties

### accDesc

#### Declaration

```
public string accDesc { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### accID

#### Declaration

```
public string accID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### totalCashSaleAmnt

#### Declaration

```
public decimal totalCashSaleAmnt { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

# Class auditfileCompanyLocationStreetAddress

## Inheritance

[object](#)

auditfileCompanyLocationStreetAddress

## Implements

[ISaftAddress](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyLocationStreetAddress : ISaftAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)



## country

### Declaration

```
public Countrycode country { get; set; }
```

### Property Value

Type	Description
<a href="#">Countrycode</a>	

## countrySpecified

### Declaration

```
public bool countrySpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## number

### Declaration

```
public string number { get; set; }
```

### Property Value

### Type Description

[string](#)

## postalCode

### Declaration

```
public string postalCode { get; set; }
```

### Property Value

### Type Description

[string](#)

## region

### Declaration

```
public string region { get; set; }
```

### Property Value

### Type Description

[string](#)

## streetname

### Declaration

```
public string streetname { get; set; }
```

### Property Value

**Type Description**

[string](#)

**Implements**

[ISaftAddress](#)

# Class auditfileCompanyPeriodsPeriod

## Inheritance

[object](#)

auditfileCompanyPeriodsPeriod

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyPeriodsPeriod
```

## Properties

### endDatePeriod

#### Declaration

```
public DateTime endDatePeriod { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### endTimePeriod

#### Declaration

```
public DateTime endTimePeriod { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### periodDesc

#### Declaration

```
public string periodDesc { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### periodNumber

#### Declaration

```
public string periodNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**startDatePeriod**

**Declaration**

```
public DateTime startDatePeriod { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**startTimePeriod**

**Declaration**

```
public DateTime startTimePeriod { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

# Class auditfileCompanyPostalAddress

## Inheritance

[object](#)

auditfileCompanyPostalAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyPostalAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### country

#### Declaration

```
public Countrycode country { get; set; }
```

**Property Value**

**Type Description**  
[Countrycode](#)

**countrySpecified**

**Declaration**

```
public bool countrySpecified { get; set; }
```

**Property Value**

**Type Description**  
[bool](#)

**number**

**Declaration**

```
public string number { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

**postalCode**

**Declaration**

```
public string postalCode { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

**region**

**Declaration**

```
public string region { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

**streetname**

**Declaration**

```
public string streetname { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

# Class auditfileCompanyStreetAddress

## Inheritance

[object](#)

auditfileCompanyStreetAddress

## Implements

[ISaftAddress](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyStreetAddress : ISaftAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## country

### Declaration

```
public Countrycode country { get; set; }
```

### Property Value

Type	Description
<a href="#">Countrycode</a>	

## countrySpecified

### Declaration

```
public bool countrySpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## number

### Declaration

```
public string number { get; set; }
```

### Property Value

### Type Description

[string](#)

## postalCode

### Declaration

```
public string postalCode { get; set; }
```

### Property Value

### Type Description

[string](#)

## region

### Declaration

```
public string region { get; set; }
```

### Property Value

### Type Description

[string](#)

## streetname

### Declaration

```
public string streetname { get; set; }
```

### Property Value



**Type Description**

[string](#)

**Implements**

[ISaftAddress](#)

# Class auditfileCompanyVatCodeDetail

## Inheritance

[object](#)

auditfileCompanyVatCodeDetail

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileCompanyVatCodeDetail
```

## Properties

### dateOfEntry

#### Declaration

```
public DateTime dateOfEntry { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### standardVatCode

#### Declaration

```
public string standardVatCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### vatCode

#### Declaration

```
public string vatCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### vatDesc

#### Declaration

```
public string vatDesc { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileHeader

## Inheritance

[object](#)

auditfileHeader

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileHeader
```

## Properties

### auditfileSender

#### Declaration

```
public auditfileHeaderAuditfileSender auditfileSender { get; set; }
```

#### Property Value

Type	Description
<a href="#">auditfileHeaderAuditfileSender</a>	

### auditfileVersion

#### Declaration

```
public string auditfileVersion { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### curCode

#### Declaration

```
public Currencycode curCode { get; set; }
```

#### Property Value

Type	Description
<a href="#">Currencycode</a>	

### dateCreated

#### Declaration

```
public DateTime dateCreated { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**endDate**

**Declaration**

```
public DateTime endDate { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**fiscalYear**

**Declaration**

```
public string fiscalYear { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**headerComment**

**Declaration**

```
public string headerComment { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**headerCommentSpecified**

**Declaration**

```
public bool headerCommentSpecified { get; }
```

**Property Value**

**Type Description**

[bool](#)

**softwareCompanyName**

**Declaration**

```
public string softwareCompanyName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## **softwareDesc**

### **Declaration**

```
public string softwareDesc { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **softwareVersion**

### **Declaration**

```
public string softwareVersion { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **startDate**

### **Declaration**

```
public DateTime startDate { get; set; }
```

### **Property Value**

### **Type Description**

[DateTime](#)

## **timeCreated**

### **Declaration**

```
public DateTime timeCreated { get; set; }
```

### **Property Value**

### **Type Description**

[DateTime](#)

## **userID**

### **Declaration**

```
public string userID { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

# Class auditfileHeaderAuditfileSender

## Inheritance

[object](#)

auditfileHeaderAuditfileSender

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileHeaderAuditfileSender
```

## Properties

### companyId

#### Declaration

```
public string companyId { get; set; }
```

#### Property Value

### Type Description

[string](#)

### companyName

#### Declaration

```
public string companyName { get; set; }
```

#### Property Value

### Type Description

[string](#)

### postalAddress

#### Declaration

```
public auditfileHeaderAuditfileSenderPostalAddress[] postalAddress { get; set; }
```

#### Property Value

#### Type

#### Description

[auditfileHeaderAuditfileSenderPostalAddress\[\]](#)

### streetAddress

#### Declaration

```
public auditfileHeaderAuditfileSenderStreetAddress[] streetAddress { get; set; }
```

**Property Value**

Type	Description
<a href="#">auditfileHeaderAuditfileSenderStreetAddress[]</a>	

**taxRegIdent**

**Declaration**

```
public string taxRegIdent { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**taxRegistrationCountry**

**Declaration**

```
public Countrycode taxRegistrationCountry { get; set; }
```

**Property Value**

**Type Description**

[Countrycode](#)



# Class auditfileHeaderAuditfileSenderPostalAddress

## Inheritance

[object](#)

auditfileHeaderAuditfileSenderPostalAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileHeaderAuditfileSenderPostalAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### country

#### Declaration

```
public Countrycode country { get; set; }
```

**Property Value**

**Type Description**

[Countrycode](#)

**countrySpecified**

**Declaration**

```
public bool countrySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**number**

**Declaration**

```
public string number { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**postalCode**

**Declaration**

```
public string postalCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**region**

**Declaration**

```
public string region { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**streetname**

**Declaration**

```
public string streetname { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class auditfileHeaderAuditfileSenderStreetAddress

## Inheritance

[object](#)

auditfileHeaderAuditfileSenderStreetAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class auditfileHeaderAuditfileSenderStreetAddress
```

## Properties

### additionalAddressDetails

#### Declaration

```
public string additionalAddressDetails { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### building

#### Declaration

```
public string building { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### city

#### Declaration

```
public string city { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### country

#### Declaration

```
public Countrycode country { get; set; }
```

**Property Value**

**Type Description**

[Countrycode](#)

**number**

**Declaration**

```
public string number { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**postalCode**

**Declaration**

```
public string postalCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**region**

**Declaration**

```
public string region { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**streetname**

**Declaration**

```
public string streetname { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Namespace RetailForce.Fiscalisation.Implementation.Denmark.Signing

## Classes

[XmlSigner](#)

# Class XmlSigner

## Inheritance

[object](#)

XmlSigner

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class XmlSigner
```

## Methods

### SignToStream(string, byte[], string, Stream, SignatureKeys)

Signs the given data (xml as utf8 byte array) with xades (xml-dig-sig).

## Declaration

```
public static void SignToStream(string filename, byte[] data, string referenceText, Stream output, SignatureKeys signatureKeys)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	filename	The filename
<a href="#">byte[]</a>	data	
<a href="#">string</a>	referenceText	
<a href="#">Stream</a>	output	
<a href="#">SignatureKeys</a>	signatureKeys	

# Namespace

## RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core

### Classes

#### [DataToBeSigned](#)

Encapsulates the DTBS (Data To Be Signed) document to be signed by the signing component. The 'data' is holding the document loaded into memory. 'FileName' is the name of the associated file.

#### [PlainTextSignersDocument](#)

Specification of SignersDocument for Text documents.

#### [SignProperties](#)

For XAdES, the SignProperties are included in the XAdES DTBS. The purpose is to provide similar functionality to the "SIGN\_PROPERTIES" parameter of the NemID signing client.

#### [SignPropertyValue](#)

Defines SignPropertyValues to be used in XAdES SignProperties DTBS. Properties can be either of type Binary or type String.

#### [SignatureKeys](#)

SignatureKeys encapsulated the Service Providers certificate chain used for the signing.

#### [SignatureParameters](#)

Defines the signature parameters to be passed on to the signing client along with the signing text.

#### [SignatureParameters.SignatureParametersBuilder](#)

#### [SignersDocument](#)

Encapsulates the original SD (Signer's Document) to be signed by the signing component.

#### [SignersDocumentFile](#)

#### [SigningPayload](#)

Encapsulated the JWT SignatureParameters and DataToBeSigned as a signing payload.

#### [Transformation](#)

Defines a Transformation from one document format to another. Concrete types of transformations are hard-coded in ValidTransformation class.

#### [TransformationContext](#)

Encapsulates the data involved in transforming an SD (Signer's Document) to a DTBS (Data To Be Signed) document.

#### [TransformationProperties](#)

#### [ValidTransformation](#)

Defines the valid transformations.

#### [XadesDataToBeSigned](#)

Encapsulates XAdES DTBS

#### [XmlSignersDocument](#)

Specification of SignersDocument for XML documents.

## **Enums**

### **AcceptedCertificatePolicies**

Certificate policy Values defined verbatim according to the Signing flow specification.

### **FlowType**

Defines the valid signing component flows Values defined verbatim according to the Signing flow specification.

### **Language**

Defining the language to use in the signing client.

### **SignPropertyValue.SignPropertyValue Type**

### **SsnPersistenceLevel**

Persistence level for UUID in the "subjectSerialNumber" of the short term certificate.



# Enum AcceptedCertificatePolicies

Certificate policy Values defined verbatim according to the Signing flow specification.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Flags]  
[JsonConverter(typeof(StringEnumConverter))]  
public enum AcceptedCertificatePolicies
```

## Fields

Name	Description
Employee	
Organization	
Person	

# Class DataToBeSigned

Encapsulates the DTBS (Data To Be Signed) document to be signed by the signing component. The 'data' is holding the document loaded into memory. 'FileName' is the name of the associated file.

## Inheritance

[object](#)

DataToBeSigned

[XadesDataToBeSigned](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataToBeSigned
```

## Constructors

**DataToBeSigned(SignatureFormat, byte[], string)**

### Declaration

```
public DataToBeSigned(SignatureFormat format, byte[] data, string name)
```

### Parameters

Type	Name	Description
<a href="#">SignatureFormat</a>	format	
<a href="#">byte[]</a>	data	
<a href="#">string</a>	name	

## Properties

### FileName

#### Declaration

```
public string FileName { get; }
```

#### Property Value

#### Type Description

[string](#)

### Format

#### Declaration

```
public SignatureFormat Format { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignatureFormat</a>	

## Methods

### GetData()

#### Declaration

```
public byte[] GetData ()
```

#### Returns

### Type Description

[byte](#)[]

# Enum FlowType

Defines the valid signing component flows Values defined verbatim according to the Signing flow specification.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
public enum FlowType
```

## Fields

Name	Description
Broker	Broker flow
ServiceProvider	Service Provider flow

# Enum Language

Defining the language to use in the signing client.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum Language
```

## Fields

### Name Description

da Danish

en English

# Class PlainTextSignersDocument

Specification of SignersDocument for Text documents.

## Inheritance

[object](#)  
[SignersDocument](#)  
PlainTextSignersDocument

## Inherited Members

[SignersDocument.DocumentFormat](#)  
[SignersDocument.SignersDocumentFile](#)  
[SignersDocument.SignProperties](#)  
[SignersDocument.DataAsText\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PlainTextSignersDocument : SignersDocument
```

## Constructors

### PlainTextSignersDocument(SignersDocumentFile, SignProperties)

#### Declaration

```
public PlainTextSignersDocument(SignersDocumentFile signersDocumentFile, SignProperties signProperties)
```

#### Parameters

Type	Name	Description
<a href="#">SignersDocumentFile</a>	signersDocumentFile	
<a href="#">SignProperties</a>	signProperties	

### PlainTextSignersDocument(SignersDocumentFile, bool)

#### Declaration

```
public PlainTextSignersDocument(SignersDocumentFile signersDocumentFile, bool useMonoSpaceFont)
```

#### Parameters

Type	Name	Description
<a href="#">SignersDocumentFile</a>	signersDocumentFile	
<a href="#">bool</a>	useMonoSpaceFont	

### PlainTextSignersDocument(SignersDocumentFile, bool, SignProperties)

#### Declaration

```
public PlainTextSignersDocument(SignersDocumentFile signersDocumentFile, bool useMonoSpaceFont, SignProperties signProperties)
```

#### Parameters

Type	Name	Description
<a href="#">SignersDocumentFile</a>	signersDocumentFile	
<a href="#">bool</a>	useMonoSpaceFont	
<a href="#">SignProperties</a>	signProperties	

## Properties

## UseMonoSpaceFont

### Declaration

```
public bool UseMonoSpaceFont { get; set; }
```

### Property Value

### Type Description

[bool](#)

## Class SignProperties

For XAdES, the SignProperties are included in the XAdES DTBS. The purpose is to provide similar functionality to the "SIGN\_PROPERTIES" parameter of the NemID signing client.

### Inheritance

[object](#)  
[Dictionary<string, SignPropertyValue>](#)  
SignProperties

### Implements

[IDictionary<string, SignPropertyValue>](#)  
[ICollection<KeyValuePair<string, SignPropertyValue>>](#)  
[IReadOnlyDictionary<string, SignPropertyValue>](#)  
[IReadOnlyCollection<KeyValuePair<string, SignPropertyValue>>](#)  
[IEnumerable<KeyValuePair<string, SignPropertyValue>>](#)  
[IDictionary](#)  
[ICollection](#)  
[IEnumerable](#)  
[IDeserializationCallback](#)  
[ISerializable](#)

### Inherited Members

[Dictionary<string, SignPropertyValue>.Add\(string, SignPropertyValue\)](#)  
[Dictionary<string, SignPropertyValue>.Clear\(\)](#)  
[Dictionary<string, SignPropertyValue>.ContainsKey\(string\)](#)  
[Dictionary<string, SignPropertyValue>.ContainsValue\(SignPropertyValue\)](#)  
[Dictionary<string, SignPropertyValue>.EnsureCapacity\(int\)](#)  
[Dictionary<string, SignPropertyValue>.GetEnumerator\(\)](#)  
[Dictionary<string, SignPropertyValue>.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Dictionary<string, SignPropertyValue>.OnDeserialization\(object\)](#)  
[Dictionary<string, SignPropertyValue>.Remove\(string\)](#)  
[Dictionary<string, SignPropertyValue>.Remove\(string, out SignPropertyValue\)](#)  
[Dictionary<string, SignPropertyValue>.TrimExcess\(\)](#)  
[Dictionary<string, SignPropertyValue>.TrimExcess\(int\)](#)  
[Dictionary<string, SignPropertyValue>.TryAdd\(string, SignPropertyValue\)](#)  
[Dictionary<string, SignPropertyValue>.TryGetValue\(string, out SignPropertyValue\)](#)  
[Dictionary<string, SignPropertyValue>.Comparer](#)  
[Dictionary<string, SignPropertyValue>.Count](#)  
[Dictionary<string, SignPropertyValue>.this\[string\]](#)  
[Dictionary<string, SignPropertyValue>.Keys](#)  
[Dictionary<string, SignPropertyValue>.Values](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class SignProperties : Dictionary<string, SignPropertyValue>, IDictionary<string, SignPropertyValue>, ICollection<KeyValuePair<string, SignPropertyValue>>, IReadOnlyDictionio
```

### Constructors

#### SignProperties()

#### Declaration

```
public SignProperties()
```

#### SignProperties(Dictionary<string, SignPropertyValue>)

#### Declaration

```
public SignProperties(Dictionary<string, SignPropertyValue> dictionary)
```

#### Parameters

Type	Name	Description
<a href="#">Dictionary&lt;string, SignPropertyValue&gt;</a>	dictionary	

### Implements

[IDictionary<TKey, TValue>](#)  
[ICollection<T>](#)  
[IReadOnlyDictionary<TKey, TValue>](#)  
[IReadOnlyCollection<T>](#)  
[IEnumerable<T>](#)  
[IDictionary](#)  
[ICollection](#)  
[IEnumerable](#)  
[IDeserializationCallback](#)  
[ISerializable](#)



# Class SignPropertyValue

Defines SignPropertyValues to be used in XAdES SignProperties DTBS. Properties can be either of type Binary or type String.

## Inheritance

[object](#)

SignPropertyValue

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignPropertyValue
```

## Constructors

### SignPropertyValue(SignPropertyValue)

#### Declaration

```
public SignPropertyValue(SignPropertyValue signPropertyValue)
```

#### Parameters

Type	Name	Description
<a href="#">SignPropertyValue</a>	signPropertyValue	

### SignPropertyValue(byte[])

#### Declaration

```
public SignPropertyValue(byte[] value)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	value	
------------------------	-------	--

### SignPropertyValue(string, SignPropertyValue.Type)

#### Declaration

```
public SignPropertyValue(string value, SignPropertyValue.SignPropertyValue.Type type)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	value	
<a href="#">SignPropertyValue.SignPropertyValue.Type</a>	type	

## Properties

### Type

#### Declaration

```
public SignPropertyValue.SignPropertyValue Type { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignPropertyValue.SignPropertyValue</a>	

### Value

#### Declaration

```
public string Value { get; }
```

#### Property Value

#### Type Description

[string](#)

# Enum SignPropertyValue.SignPropertyValueTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SignPropertyValue.SignPropertyValueTypes
```

## Fields

Name	Description
BinaryValue	
StringValue	

# Class SignatureKeys

SignatureKeys encapsulated the Service Providers certificate chain used for the signing.

## Inheritance

[object](#)

SignatureKeys

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignatureKeys
```

## Constructors

### SignatureKeys(X509Certificate2, AsymmetricAlgorithm)

#### Declaration

```
public SignatureKeys(X509Certificate2 certificate, AsymmetricAlgorithm privateKey)
```

#### Parameters

Type	Name	Description
<a href="#">X509Certificate2</a>	certificate	
<a href="#">AsymmetricAlgorithm</a>	privateKey	

## Properties

### PrivateKey

#### Declaration

```
public AsymmetricAlgorithm PrivateKey { get; }
```

#### Property Value

Type	Description
<a href="#">AsymmetricAlgorithm</a>	

### X509Certificate2

#### Declaration

```
public X509Certificate2 X509Certificate2 { get; }
```

#### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">X509Certificate2</a>	

# Class SignatureParameters

Defines the signature parameters to be passed on to the signing client along with the signing text.

## Inheritance

[object](#)

SignatureParameters

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignatureParameters
```

## Constructors

### SignatureParameters()

#### Declaration

```
public SignatureParameters()
```

### SignatureParameters(SignatureParameters)

#### Declaration

```
public SignatureParameters(SignatureParameters signatureParameters)
```

## Parameters

Type	Name	Description
<a href="#">SignatureParameters</a>	signatureParameters	

## Properties

### AcceptedCertificatePolicies

#### Declaration

```
[JsonConverter(typeof(StringEnumConverter))]  
public AcceptedCertificatePolicies? AcceptedCertificatePolicies { get; set; }
```

#### Property Value

Type	Description
<a href="#">AcceptedCertificatePolicies?</a>	

### AnonymizeSigner

#### Declaration

```
public bool? AnonymizeSigner { get; set; }
```

**Property Value**

### **Type Description**

[bool?](#)

### **DocumentFormat**

**Declaration**

```
[JsonConverter(typeof(StringEnumConverter))]  
public DocumentFormat? DocumentFormat { get; set; }
```

**Property Value**

<b>Type</b>	<b>Description</b>
-------------	--------------------

<a href="#">DocumentFormat?</a>	
---------------------------------	--

### **DtbsDigest**

**Declaration**

```
public string DtbsDigest { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **DtbsDigestAlgorithm**

**Declaration**

```
public string DtbsDigestAlgorithm { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **DtbsSignedInfo**

**Declaration**

```
public string DtbsSignedInfo { get; }
```

**Property Value**

### **Type Description**

[string](#)

### **EntityID**

**Declaration**

```
public string EntityID { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **FlowType**

## Declaration

```
[JsonConverter(typeof(StringEnumConverter))]  
public FlowType? FlowType { get; set; }
```

## Property Value

### Type Description

[FlowType?](#)

## MinAge

### Declaration

```
public int? MinAge { get; set; }
```

## Property Value

### Type Description

[int?](#)

## PreferredLanguage

### Declaration

```
[JsonConverter(typeof(StringEnumConverter))]  
public Language? PreferredLanguage { get; set; }
```

## Property Value

### Type Description

[Language?](#)

## ReferenceText

### Declaration

```
public string ReferenceText { get; set; }
```

## Property Value

### Type Description

[string](#)

## SignatureFormat

### Declaration

```
[JsonConverter(typeof(StringEnumConverter))]  
public virtual SignatureFormat? SignatureFormat { get; set; }
```

## Property Value

### Type Description

[SignatureFormat?](#)

## SignerSubjectNameID

### Declaration

```
public string SignerSubjectNameID { get; set; }
```

## Property Value



## Type Description

[string](#)

## SsnPersistenceLevel

### Declaration

```
[JsonConverter(typeof(StringEnumConverter))]  
public SsnPersistenceLevel? SsnPersistenceLevel { get; set; }
```

### Property Value

Type	Description
<a href="#">SsnPersistenceLevel?</a>	

## Version

### Declaration

```
public int? Version { get; }
```

### Property Value

## Type Description

[int?](#)

## Methods

### Validate()

#### Declaration

```
public void Validate()
```

### WithDtbsSignedInfo(string)

#### Declaration

```
public void WithDtbsSignedInfo(string dtbsSignedInfo)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	dtbsSignedInfo	

# Class SignatureParameters.SignatureParametersBuilder

## Inheritance

[object](#)

SignatureParameters.SignatureParametersBuilder

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignatureParameters.SignatureParametersBuilder
```

## Constructors

### SignatureParametersBuilder()

#### Declaration

```
public SignatureParametersBuilder()
```

## Methods

### Build()

#### Declaration

```
public SignatureParameters Build()
```

#### Returns

Type	Description
------	-------------

<a href="#">SignatureParameters</a>	
-------------------------------------	--

### WithAcceptedCertificatePolicies(AcceptedCertificatePolicies)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithAcceptedCertificatePolicies(AcceptedCertificatePolicies acceptedCertificatePolicies)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">AcceptedCertificatePolicies</a>	acceptedCertificatePolicies	
---	-----------------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">SignatureParameters.SignatureParametersBuilder</a>	
--	--

### WithAnonymizeSigner(bool)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithAnonymizeSigner(bool anonymizeSigner)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">bool</a>	anonymizeSigner	
----------------------	-----------------	--

#### Returns

Type	Description
------	-------------

<a href="#">SignatureParameters.SignatureParametersBuilder</a>	
--	--

### WithDtbsDigest(string)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithDtbsDigest (string dtbsDigest)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	dtbsDigest	
------------------------	------------	--

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithDtbsDigestAlgorithm(string)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithDtbsDigestAlgorithm (string dtbsDigestAlgorithm)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	dtbsDigestAlgorithm	
------------------------	---------------------	--

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithDtbsSignedInfo(string)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithDtbsSignedInfo (string dtbsSignedInfo)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	dtbsSignedInfo	
------------------------	----------------	--

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithEntityID(string)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithEntityID (string entityID)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	entityID	
------------------------	----------	--

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithFlowType(FlowType)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithFlowType (FlowType flowType)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FlowType</a>	flowType	
--------------------------	----------	--

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithMinAge(int)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithMinAge(int minAge)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	minAge	
---------------------	--------	--

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithPreferredLanguage(Language)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithPreferredLanguage(Language preferredLanguage)
```

#### Parameters

Type	Name	Description
<a href="#">Language</a>	preferredLanguage	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithReferenceText(string)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithReferenceText(string referenceText)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	referenceText	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithSignatureFormat(SignatureFormat)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSignatureFormat(SignatureFormat signatureFormat)
```

#### Parameters

Type	Name	Description
<a href="#">SignatureFormat</a>	signatureFormat	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

#### WithSignerSubjectNameID(string)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSignerSubjectNameID(string signersSubjectNameID)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	signersSubjectNameID	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

### WithSignersDocumentFormat(DocumentFormat)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSignersDocumentFormat (DocumentFormat signersDocumentFormat)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentFormat</a>	signersDocumentFormat	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

### WithSsnPersistenceLevel(SsnPersistenceLevel)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSsnPersistenceLevel (SsnPersistenceLevel ssnPersistenceLevel)
```

#### Parameters

Type	Name	Description
<a href="#">SsnPersistenceLevel</a>	ssnPersistenceLevel	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

### WithValidTransformation(Transformation)

#### Declaration

```
public SignatureParameters.SignatureParametersBuilder WithValidTransformation (Transformation transformation)
```

#### Parameters

Type	Name	Description
<a href="#">Transformation</a>	transformation	

#### Returns

Type	Description
<a href="#">SignatureParameters.SignatureParametersBuilder</a>	

# Class SignersDocument

Encapsulates the original SD (Signer's Document) to be signed by the signing component.

## Inheritance

[object](#)

SignersDocument

[PlainTextSignersDocument](#)

[XmlSignersDocument](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class SignersDocument
```

## Constructors

### SignersDocument()

#### Declaration

```
public SignersDocument()
```

### SignersDocument(DocumentFormat, SignersDocumentFile, SignProperties)

#### Declaration

```
public SignersDocument(DocumentFormat signersDocumentFormat, SignersDocumentFile signersDocumentFile, SignProperties signProperties)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentFormat</a>	signersDocumentFormat	
<a href="#">SignersDocumentFile</a>	signersDocumentFile	
<a href="#">SignProperties</a>	signProperties	

## Properties

### DocumentFormat

#### Declaration

```
public DocumentFormat DocumentFormat { get; }
```

#### Property Value

Type	Description
<a href="#">DocumentFormat</a>	

### SignProperties

#### Declaration

```
public SignProperties SignProperties { get; }
```

#### Property Value

Type	Description
<a href="#">SignProperties</a>	

### SignersDocumentFile

**Declaration**

```
public SignersDocumentFile SignersDocumentFile { get; }
```

**Property Value**

Type	Description
<a href="#">SignersDocumentFile</a>	

**Methods****DataAsText()****Declaration**

```
public string DataAsText()
```

**Returns****Type Description**

[string](#)

# Class SignersDocumentFile

## Inheritance

[object](#)

SignersDocumentFile

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignersDocumentFile
```

## Constructors

### SignersDocumentFile()

#### Declaration

```
public SignersDocumentFile()
```

### SignersDocumentFile(string, byte[])

#### Declaration

```
public SignersDocumentFile(string fileName, byte[] data)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	fileName	
------------------------	----------	--

<a href="#">byte[]</a>	data	
------------------------	------	--

## Properties

### Name

#### Declaration

```
public string Name { get; protected set; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### GetData()

#### Declaration



```
public byte[] GetData()
```

**Returns**

**Type Description**

[byte](#)[]

**GetDataAsString()**

**Declaration**

```
public string GetDataAsString()
```

**Returns**

**Type Description**

[string](#)

# Class SigningPayload

Encapsulated the JWT SignatureParameters and DataToBeSigned as a signing payload.

## Inheritance

[object](#)

SigningPayload

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SigningPayload
```

## Constructors

**SigningPayload(string, DataToBeSigned)**

### Declaration

```
public SigningPayload(string signedParameters, DataToBeSigned dtbs)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	signedParameters	
<a href="#">DataToBeSigned</a>	dtbs	

## Properties

**DataToBeSigned**

### Declaration

```
public DataToBeSigned DataToBeSigned { get; }
```

### Property Value

Type	Description
<a href="#">DataToBeSigned</a>	

**SignatureParameters**

### Declaration

```
public string SignatureParameters { get; }
```

### Property Value

**Type Description**

## Type Description

[string](#)

# Enum SsnPersistenceLevel

Persistence level for UUID in the "subjectSerialNumber" of the short term certificate.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
public enum SsnPersistenceLevel
```

## Fields

Name	Description
------	-------------

Global	Global
--------	--------

Session	Session
---------	---------

# Class Transformation

Defines a Transformation from one document format to another. Concrete types of transformations are hard-coded in ValidTransformation class.

## Inheritance

[object](#)

Transformation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Transformation
```

## Constructors

**Transformation(DocumentFormat, SignatureFormat, ViewFormat)**

### Declaration

```
public Transformation(DocumentFormat sdFormat, SignatureFormat signatureFormat, ViewFormat viewFormat)
```

### Parameters

Type	Name	Description
<a href="#">DocumentFormat</a>	sdFormat	
<a href="#">SignatureFormat</a>	signatureFormat	
<a href="#">ViewFormat</a>	viewFormat	

## Properties

### SdFormat

#### Declaration

```
public DocumentFormat SdFormat { get; }
```

#### Property Value

Type	Description
<a href="#">DocumentFormat</a>	

### SignatureFormat

#### Declaration

```
public SignatureFormat SignatureFormat { get; }
```

#### Property Value

**Type**    **Description**

[SignatureFormat](#)

## **ViewFormat**

### **Declaration**

```
public ViewFormat ViewFormat { get; }
```

### **Property Value**

**Type**    **Description**

[ViewFormat](#)

## Class TransformationContext

Encapsulates the data involved in transforming an SD (Signer's Document) to a DTBS (Data To Be Signed) document.

### Inheritance

[object](#)

TransformationContext

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class TransformationContext
```

### Constructors

#### TransformationContext(SignersDocument, SignatureKeys, SignatureParameters)

##### Declaration

```
public TransformationContext(SignersDocument signersDocument, SignatureKeys signatureKeys, SignatureParameters signatureParameters)
```

##### Parameters

Type	Name	Description
<a href="#">SignersDocument</a>	signersDocument	
<a href="#">SignatureKeys</a>	signatureKeys	
<a href="#">SignatureParameters</a>	signatureParameters	

#### TransformationContext(SignersDocument, SignatureKeys, SignatureParameters, TransformationProperties)

##### Declaration

```
public TransformationContext(SignersDocument signersDocument, SignatureKeys signatureKeys, SignatureParameters signatureParameters, TransformationProperties transformationProperties)
```

##### Parameters

Type	Name	Description
<a href="#">SignersDocument</a>	signersDocument	
<a href="#">SignatureKeys</a>	signatureKeys	
<a href="#">SignatureParameters</a>	signatureParameters	
<a href="#">TransformationProperties</a>	transformationProperties	

### Properties

#### DataToBeSigned

Output Dtbs

##### Declaration

```
public DataToBeSigned DataToBeSigned { get; set; }
```

##### Property Value

Type	Description
<a href="#">DataToBeSigned</a>	

#### SignatureKeys

Signature keys used to JWS-sign the SigningPayload

##### Declaration

```
public SignatureKeys SignatureKeys { get; }
```

##### Property Value

Type	Description
<a href="#">SignatureKeys</a>	

#### SignatureParameters

Signature parameters - the dtbsDigest and dtbsSignedInfo field will be updated during the transformation

##### Declaration

```
public SignatureParameters SignatureParameters { get; }
```

##### Property Value

Type	Description
<a href="#">SignatureParameters</a>	

#### SignersDocument

Input SignersDocument

**Declaration**

```
public SignersDocument SignersDocument { get; }
```

**Property Value**

Type	Description
<a href="#">SignersDocument</a>	

**TransformationProperties****Declaration**

```
public TransformationProperties TransformationProperties { get; }
```

**Property Value**

Type	Description
<a href="#">TransformationProperties</a>	

**Methods****GetTransformation()****Declaration**

```
public Transformation GetTransformation()
```

**Returns**

Type	Description
<a href="#">Transformation</a>	

**UpdateDtbsSignedInfo(string)****Declaration**

```
public void UpdateDtbsSignedInfo(string signatureEncoded)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	signatureEncoded	



# Class TransformationProperties

## Inheritance

[object](#)  
[Dictionary<string, string>](#)  
[TransformationProperties](#)

## Implements

[IDictionary<string, string>](#)  
[ICollection<KeyValuePair<string, string>>](#)  
[IReadOnlyDictionary<string, string>](#)  
[IReadOnlyCollection<KeyValuePair<string, string>>](#)  
[IEnumerable<KeyValuePair<string, string>>](#)  
[IDictionary](#)  
[ICollection](#)  
[IEnumerable](#)  
[IDeserializationCallback](#)  
[ISerializable](#)

## Inherited Members

[Dictionary<string, string>.Add\(string, string\)](#)  
[Dictionary<string, string>.Clear\(\)](#)  
[Dictionary<string, string>.ContainsKey\(string\)](#)  
[Dictionary<string, string>.ContainsValue\(string\)](#)  
[Dictionary<string, string>.EnsureCapacity\(int\)](#)  
[Dictionary<string, string>.GetEnumerator\(\)](#)  
[Dictionary<string, string>.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Dictionary<string, string>.OnDeserialization\(object\)](#)  
[Dictionary<string, string>.Remove\(string\)](#)  
[Dictionary<string, string>.Remove\(string, out string\)](#)  
[Dictionary<string, string>.TrimExcess\(\)](#)  
[Dictionary<string, string>.TrimExcess\(int\)](#)  
[Dictionary<string, string>.TryAdd\(string, string\)](#)  
[Dictionary<string, string>.TryGetValue\(string, out string\)](#)  
[Dictionary<string, string>.Comparer](#)  
[Dictionary<string, string>.Count](#)  
[Dictionary<string, string>.this\[string\]](#)  
[Dictionary<string, string>.Keys](#)  
[Dictionary<string, string>.Values](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class TransformationProperties : Dictionary<string, string>, IDictionary<string, string>, ICollection<KeyValuePair<string, string>>, IReadOnlyDictionary<string, string>, I
```

## Constructors

### TransformationProperties()

#### Declaration

```
public TransformationProperties()
```

## Implements

[IDictionary<TKey, TValue>](#)  
[ICollection<T>](#)  
[IReadOnlyDictionary<TKey, TValue>](#)  
[IReadOnlyCollection<T>](#)  
[IEnumerable<T>](#)  
[IDictionary](#)  
[ICollection](#)  
[IEnumerable](#)  
[IDeserializationCallback](#)  
[ISerializable](#)

# Class ValidTransformation

Defines the valid transformations.

## Inheritance

[object](#)

ValidTransformation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class ValidTransformation
```

## Properties

### Transformations

#### Declaration

```
public static IEnumerable<Transformation> Transformations { get; }
```

#### Property Value

Type	Description
<a href="#">IEnumerable&lt;Transformation&gt;</a>	

## Methods

### GetTransformation(DocumentFormat, SignatureFormat)

#### Declaration

```
public static Transformation GetTransformation(DocumentFormat sdFormat, SignatureFormat dtbsFormat)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentFormat</a>	sdFormat	
<a href="#">SignatureFormat</a>	dtbsFormat	

#### Returns

Type	Description
<a href="#">Transformation</a>	

# Class XadesDataToBeSigned

Encapsulates XAdES DTBS

## Inheritance

[object](#)

[DataToBeSigned](#)

XadesDataToBeSigned

## Inherited Members

[DataToBeSigned.Format](#)

[DataToBeSigned.FileName](#)

[DataToBeSigned.GetData\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class XadesDataToBeSigned : DataToBeSigned
```

## Constructors

**XadesDataToBeSigned(byte[], string)**

### Declaration

```
public XadesDataToBeSigned(byte[] data, string name)
```

### Parameters

### Type Name Description

[byte](#)[] data

[string](#) name

# Class XmlSignersDocument

Specification of SignersDocument for XML documents.

## Inheritance

[object](#)  
[SignersDocument](#)  
XmlSignersDocument

## Inherited Members

[SignersDocument.DocumentFormat](#)  
[SignersDocument.SignersDocumentFile](#)  
[SignersDocument.SignProperties](#)  
[SignersDocument.DataAsText\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Core](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class XmlSignersDocument : SignersDocument
```

## Constructors

### XmlSignersDocument(SignersDocumentFile)

#### Declaration

```
public XmlSignersDocument(SignersDocumentFile signersDocumentFile)
```

#### Parameters

Type	Name	Description
<a href="#">SignersDocumentFile</a>	signersDocumentFile	

### XmlSignersDocument(SignersDocumentFile, SignProperties)

#### Declaration

```
public XmlSignersDocument(SignersDocumentFile signersDocumentFile, SignProperties signProperties)
```

#### Parameters

Type	Name	Description
<a href="#">SignersDocumentFile</a>	signersDocumentFile	
<a href="#">SignProperties</a>	signProperties	

## Namespace

### RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Exceptions

#### Classes

##### [InvalidSignatureParametersException](#)

Thrown if the [{@link SignatureParameters}](#) are invalid

##### [SignerException](#)

Base NemLog-In exception class.

##### [TransformationException](#)

Thrown when transforming a SD to an DTBS fails

##### [ValidationException](#)

Thrown when validating SD fails

#### Enums

##### [ErrorCode](#)

NemLog-In Signing SDK error codes

# Enum ErrorCode

NemLog-In Signing SDK error codes

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Exceptions](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ErrorCode
```

## Fields

Name	Description
------	-------------

SDK001

SDK002

SDK003

SDK004

SDK005

SDK006

SDK007

SDK008

SDK009

SDK010

SDK011

# Class InvalidSignatureParametersException

Thrown if the [{@link SignatureParameters}](#) are invalid

## Inheritance

[object](#)  
[Exception](#)  
[SignerException](#)  
InvalidSignatureParametersException

## Implements

[ISerializable](#)

## Inherited Members

[SignerException.ErrorCode](#)  
[SignerException.ErrorCodeDescription](#)  
[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Exceptions](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvalidSignatureParametersException : SignerException, ISerializable
```

## Constructors

### InvalidSignatureParametersException()

#### Declaration

```
public InvalidSignatureParametersException()
```

### InvalidSignatureParametersException(string)

#### Declaration

```
public InvalidSignatureParametersException(string message)
```

## Parameters

### Type Name Description

[string](#) message

## InvalidSignatureParametersException(string, Exception)

### Declaration

```
public InvalidSignatureParametersException(string message, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

### Implements

[ISerializable](#)



# Class SignerException

Base NemLog-In exception class.

## Inheritance

[object](#)  
[Exception](#)  
[SignerException](#)  
[InvalidSignatureParametersException](#)  
[TransformationException](#)  
[ValidationException](#)

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Exceptions](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignerException : Exception, ISerializable
```

## Constructors

### SignerException()

#### Declaration

```
public SignerException()
```

### SignerException(string)

#### Declaration

```
public SignerException(string message)
```

#### Parameters

## Type Name Description

[string](#) message

## SignerException(string, ErrorCode)

### Declaration

```
public SignerException(string message, ErrorCode errorCode)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">ErrorCode</a>	errorCode	

## SignerException(string, ErrorCode, Exception)

### Declaration

```
public SignerException(string message, ErrorCode errorCode, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">ErrorCode</a>	errorCode	
<a href="#">Exception</a>	innerException	

## SignerException(string, Exception)

### Declaration

```
public SignerException(string message, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

## Properties

### ErrorCode

#### Declaration

```
public ErrorCode ErrorCode { get; set; }
```

#### Property Value

Type	Description
<a href="#">ErrorCode</a>	

### ErrorCodeDescription

#### Declaration

```
public string ErrorCodeDescription { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

## Implements

[ISerializable](#)

# Class TransformationException

Thrown when transforming a SD to an DTBS fails

## Inheritance

[object](#)  
[Exception](#)  
[SignerException](#)  
TransformationException

## Implements

[ISerializable](#)

## Inherited Members

[SignerException.ErrorCode](#)  
[SignerException.ErrorCodeDescription](#)  
[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Exceptions](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransformationException : SignerException, ISerializable
```

## Constructors

### TransformationException()

#### Declaration

```
public TransformationException()
```

### TransformationException(string)

#### Declaration

```
public TransformationException(string message)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	message	
------------------------	---------	--

## TransformationException(string, ErrorCode)

### Declaration

```
public TransformationException(string message, ErrorCode errorCode)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">ErrorCode</a>	errorCode	

## TransformationException(string, ErrorCode, Exception)

### Declaration

```
public TransformationException(string message, ErrorCode errorCode, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">ErrorCode</a>	errorCode	
<a href="#">Exception</a>	innerException	

## TransformationException(string, Exception)

### Declaration

```
public TransformationException(string message, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

## Implements

[ISerializable](#)

# Class ValidationException

Thrown when validating SD fails

## Inheritance

[object](#)  
[Exception](#)  
[SignerException](#)  
ValidationException

## Implements

[ISerializable](#)

## Inherited Members

[SignerException.ErrorCode](#)  
[SignerException.ErrorCodeDescription](#)  
[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Exceptions](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ValidationException : SignerException, ISerializable
```

## Constructors

### ValidationException()

#### Declaration

```
public ValidationException()
```

### ValidationException(string)

#### Declaration

```
public ValidationException(string message)
```

#### Parameters

### Type Name Description

[string](#) message

## ValidationException(string, ErrorCode)

### Declaration

```
public ValidationException(string message, ErrorCode errorCode)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">ErrorCode</a>	errorCode	

## ValidationException(string, ErrorCode, Exception)

### Declaration

```
public ValidationException(string message, ErrorCode errorCode, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">ErrorCode</a>	errorCode	
<a href="#">Exception</a>	innerException	

## ValidationException(string, Exception)

### Declaration

```
public ValidationException(string message, Exception innerException)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	message	
<a href="#">Exception</a>	innerException	

## Implements

[ISerializable](#)

## Namespace

**RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Format**

## Enums

### DocumentFormat

Defines the valid SD (signer's document) formats.

### SignatureFormat

Defines the valid DTBS (Data To Be Signed) formats.

### ViewFormat

Defines the valid signing component display formats.



# Enum DocumentFormat

Defines the valid SD (signer's document) formats.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Format](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum DocumentFormat
```

## Fields

Name	Description
HTML	The HTML subset supported by the NemLog-In signing component
PDF	The PDF subset supported by the NemLog-In signing component
TEXT	Plain UTF-8 text
XML	XML

# Enum SignatureFormat

Defines the valid DTBS (Data To Be Signed) formats.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Format](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SignatureFormat
```

## Fields

Name	Description
	PAdES PDF containing signature dictionary
	XAdES XML containing XMLDsig

# Enum ViewFormat

Defines the valid signing component display formats.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Format](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ViewFormat
```

## Fields

Name	Description
------	-------------

HTML	Display as HTML
------	-----------------

PDF	Display as PDF
-----	----------------

TEXT	Display as Text
------	-----------------

## Namespace

**RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Logic**

## Interfaces

### [ISignatureStamper](#)

Interface defining how Signature are stamped to either PAdES or XAdES documents.

### [ITransformator](#)

Interface for handling transformations between document formats.

# Interface ISignatureStamper

Interface defining how Signature are stamped to either PAdES or XAdES documents.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Logic](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISignatureStamper
```

## Methods

### CanSign(SignatureFormat)

#### Declaration

```
bool CanSign(SignatureFormat signatureFormat)
```

#### Parameters

Type	Name	Description
<a href="#">SignatureFormat</a>	signatureFormat	

#### Returns

#### Type Description

[bool](#)

### PresignDocument(TransformationContext)

#### Declaration

```
void PresignDocument(TransformationContext ctx)
```

#### Parameters

Type	Name	Description
<a href="#">TransformationContext</a>	ctx	

# Interface ITransformer

Interface for handling transformations between document formats.

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Logic](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ITransformer
```

## Methods

### CanTransform(Transformation)

#### Declaration

```
bool CanTransform(Transformation transformation)
```

#### Parameters

Type	Name	Description
<a href="#">Transformation</a>	transformation	

#### Returns

#### Type Description

[bool](#)

### Transform(TransformationContext, ILogger)

#### Declaration

```
void Transform(TransformationContext transformationContext, ILogger logger)
```

#### Parameters

Type	Name	Description
<a href="#">TransformationContext</a>	transformationContext	
<a href="#">ILogger</a>	logger	

## Namespace

**RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Utilities**

## Classes

### [CryptographyLogic](#)

Utility class for hash computation and canonicalization of xml the signature

### [ObjectSerializer](#)

Utility class for generic serializing and deserializing.

### [SignatureKeysLoader](#)

Utility class for loading signaturekeys from the keystore

# Class CryptographyLogic

Utility class for hash computation and canonicalization of xml the signature

## Inheritance

[object](#)

CryptographyLogic

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Utilities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class CryptographyLogic
```

## Methods

### Canonicalize(byte[])

#### Declaration

```
public static byte[] Canonicalize(byte[] dtbs)
```

#### Parameters

#### Type Name Description

[byte\[\]](#) dtbs

#### Returns

#### Type Description

[byte\[\]](#)

### ComputeSha256Hash(byte[])

#### Declaration

```
public static byte[] ComputeSha256Hash(byte[] data)
```

#### Parameters

#### Type Name Description

[byte\[\]](#) data

#### Returns

#### Type Description

[byte\[\]](#)



# Class ObjectSerializer

Utility class for generic serializing and deserializing.

## Inheritance

[object](#)  
ObjectSerializer

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Utilities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ObjectSerializer
```

## Methods

### DeserializeObject<T>(string)

#### Declaration

```
public static T DeserializeObject<T>(string value)
```

#### Parameters

#### Type Name Description

[string](#) value

#### Returns

#### Type Description

T

#### Type Parameters

#### Name Description

T

### SerializeObject(object)

#### Declaration

```
public static string SerializeObject(object value)
```

#### Parameters

#### Type Name Description

[object](#) value

#### Returns

## Type Description

[string](#)

# Class SignatureKeysLoader

Utility class for loading signaturekeys from the keystore

## Inheritance

[object](#)

SignatureKeysLoader

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.SigningCore.Utilities](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignatureKeysLoader
```

## Properties

### KeyStorePassWord

#### Declaration

```
protected string KeyStorePassWord { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### KeyStoreType

#### Declaration

```
protected string KeyStoreType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### KeystorePath

#### Declaration

```
protected string KeystorePath { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### PrivateKeyPassword

## Declaration

```
protected string PrivateKeyPassword { get; set; }
```

## Property Value

## Type Description

[string](#)

## Methods

### LoadSignatureKeys()

#### Declaration

```
public SignatureKeys LoadSignatureKeys()
```

#### Returns

Type	Description
------	-------------

[SignatureKeys](#)

### WithKeyStore(byte[])

#### Declaration

```
public SignatureKeysLoader WithKeyStore(byte[] keystore)
```

#### Parameters

Type	Name	Description
------	------	-------------

[byte\[\]](#) keystore

#### Returns

Type	Description
------	-------------

[SignatureKeysLoader](#)

### WithKeyStorePassword(string)

#### Declaration

```
public SignatureKeysLoader WithKeyStorePassword(string keyStorePassword)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) keyStorePassword

#### Returns

Type	Description
------	-------------

[SignatureKeysLoader](#)

### WithKeyStorePath(string)

#### Declaration

```
public SignatureKeysLoader WithKeyStorePath(string keystorePath)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	keystorePath	
------------------------	--------------	--

**Returns**

Type	Description
<a href="#">SignatureKeysLoader</a>	

**WithKeyStoreType(string)**

**Declaration**

```
public SignatureKeysLoader WithKeyStoreType(string keystoreType)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	keystoreType	

**Returns**

Type	Description
<a href="#">SignatureKeysLoader</a>	

**WithPrivateKeyPassword(string)**

**Declaration**

```
public SignatureKeysLoader WithPrivateKeyPassword(string privateKeyPassword)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	privateKeyPassword	

**Returns**

Type	Description
<a href="#">SignatureKeysLoader</a>	

**WithX509Certificate2(X509Certificate2)**

**Declaration**

```
public SignatureKeysLoader WithX509Certificate2(X509Certificate2 certificate)
```

**Parameters**

Type	Name	Description
<a href="#">X509Certificate2</a>	certificate	

**Returns**

Type	Description
<a href="#">SignatureKeysLoader</a>	

# Namespace **RetailForce.Fiscalisation.Implementation.Denmark.Signing.Validation**

## Interfaces

### [IValidator](#)

Interface for defining Validator contract for Validator implemetation

# Interface IValidator

Interface for defining Validator contract for Validator implementation

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Validation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IValidator
```

## Methods

### Validate(TransformationContext)

#### Declaration

```
void Validate(TransformationContext ctx)
```

#### Parameters

Type	Name	Description
<a href="#">TransformationContext</a>	ctx	

## Namespace

**RetailForce.Fiscalisation.Implementation.Denmark.Signing.Validation.XMLValidation**

## Classes

### [XmlValidator](#)

Class for validating XML and XSL files. Check for syntax errors, version, DtdProcessing etc.



# Class XmlValidator

Class for validating XML and XSL files. Check for syntax errors, version, DtdProcessing etc.

## Inheritance

[object](#)

XmlValidator

## Implements

[IValidator](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Validation.XMLValidation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class XmlValidator : IValidator
```

## Methods

### Validate(TransformationContext)

#### Declaration

```
public void Validate(TransformationContext ctx)
```

#### Parameters

Type	Name	Description
<a href="#">TransformationContext</a>	ctx	

## Implements

[IValidator](#)

# Namespace RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.Logic

## Classes

### AllDocumentFormatTransformator

Implementation of the ITransformator interface. Handles all the preliminary formats (XML, HTML, TXT, PDF) -> XML transformation.

### XmlSignatureStamper

Implementation of the ISignatureStamper that updates the DTBS XML SignedDocument with a initial Signature element containing SignedInfo with a reference to and digest of the DTBS.

# Class AllDocumentFormatTransformer

Implementation of the ITransformer interface. Handles all the preliminary formats (XML, HTML, TXT, PDF) -> XML transformation.

## Inheritance

[object](#)

AllDocumentFormatTransformer

## Implements

[ITransformer](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.Logic](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AllDocumentFormatTransformer : ITransformer
```

## Methods

### CanTransform(Transformation)

#### Declaration

```
public bool CanTransform(Transformation transformation)
```

#### Parameters

Type	Name	Description
<a href="#">Transformation</a>	transformation	

#### Returns

#### Type Description

[bool](#)

### Transform(TransformationContext, ILogger)

#### Declaration

```
public void Transform(TransformationContext ctx, ILogger logger)
```

#### Parameters

Type	Name	Description
<a href="#">TransformationContext</a>	ctx	
<a href="#">ILogger</a>	logger	

## Implements



# Class XmlSignatureStamper

Implementation of the ISignatureStamper that updates the DTBS XML SignedDocument with a initial Signature element containing SignedInfo with a reference to and digest of the DTBS.

## Inheritance

[object](#)

XmlSignatureStamper

## Implements

[ISignatureStamper](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.Logic](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class XmlSignatureStamper : ISignatureStamper
```

## Methods

### CanSign(SignatureFormat)

#### Declaration

```
public bool CanSign(SignatureFormat signatureFormat)
```

#### Parameters

Type	Name	Description
<a href="#">SignatureFormat</a>	signatureFormat	

#### Returns

#### Type Description

[bool](#)

### PresignDocument(TransformationContext)

#### Declaration

```
public void PresignDocument(TransformationContext ctx)
```

#### Parameters

Type	Name	Description
<a href="#">TransformationContext</a>	ctx	

## Implements

[ISignatureStamper](#)



# Namespace RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.Util

## Classes

### [XMLSerializer](#)

Logic for Serializing/Deserializing XML.

# Class XMLSerializer

Logic for Serializing/Deserializing XML.

## Inheritance

[object](#)

XMLSerializer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.Util](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class XMLSerializer
```

## Methods

### Deserialize<T>(byte[])

#### Declaration

```
public static T Deserialize<T>(byte[] data)
```

#### Parameters

#### Type Name Description

[byte](#)[] data

#### Returns

#### Type Description

T

#### Type Parameters

#### Name Description

T

### Serialize(SignTextType)

#### Declaration

```
public static byte[] Serialize(SignTextType obj)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">SignTextType</a>	obj	
------------------------------	-----	--

#### Returns



## Type Description

[byte](#)[]

## Serialize(SignatureType)

### Declaration

```
public static byte[] Serialize(SignatureType obj)
```

### Parameters

Type	Name	Description
<a href="#">SignatureType</a>	obj	

### Returns

## Type Description

[byte](#)[]

## Serialize(SignedDocumentType)

### Declaration

```
public static byte[] Serialize(SignedDocumentType obj)
```

### Parameters

Type	Name	Description
<a href="#">SignedDocumentType</a>	obj	

### Returns

## Type Description

[byte](#)[]

# Namespace

## RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig

### Classes

[CanonicalizationMethodType](#)

[DSAKeyValue Type](#)

[DigestMethodType](#)

[HTMLDocumentType](#)

[KeyInfoType](#)

[KeyValue Type](#)

[ManifestType](#)

[ObjectType](#)

[PDFDocumentType](#)

[PGPDataType](#)

[PlainTextType](#)

[PropertyType](#)

[RSAKeyValue Type](#)

[ReferenceType](#)

[RenderingType](#)

[RetrievalMethodType](#)

[SPKIDDataType](#)

[SignTextType](#)

[SignatureMethodType](#)

[SignaturePropertiesType](#)

[SignaturePropertyType](#)

[SignatureType](#)

[Signature Value Type](#)

[SignedDocumentType](#)

[SignedInfoType](#)

[TransformType](#)

[Transforms Type](#)

[X509Data Type](#)

[X509IssuerSerialType](#)

[XMLDocumentType](#)

## **Enums**

[ItemsChoiceType](#)

[ItemsChoiceType1](#)

[ItemsChoiceType2](#)

# Class CanonicalizationMethodType

## Inheritance

[object](#)

CanonicalizationMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class CanonicalizationMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

# Class DSAKeyValueTypes

## Inheritance

[object](#)

DSAKeyValueTypes

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DSAKeyValueTypes
```

## Properties

### G

#### Declaration

```
public byte[] G { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### J

#### Declaration

```
public byte[] J { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### P

#### Declaration

```
public byte[] P { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

## PgenCounter

#### Declaration

```
public byte[] PgenCounter { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Q**

**Declaration**

```
public byte[] Q { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Seed**

**Declaration**

```
public byte[] Seed { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Y**

**Declaration**

```
public byte[] Y { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

# Class DigestMethodType

## Inheritance

[object](#)

DigestMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DigestMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

# Class HTMLDocumentType

## Inheritance

[object](#)

HTMLDocumentType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class HTMLDocumentType
```

## Properties

### Document

#### Declaration

```
public byte[] Document { get; set; }
```

#### Property Value

### Type Description

[byte](#)[]



# Enum ItemsChoiceType

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType
```

## Fields

Name	Description
Item	
X509CRL	
X509Certificate	
X509IssuerSerial	
X509SKI	
X509SubjectName	

# Enum ItemsChoiceType1

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType1
```

## Fields

Name	Description
Item	
PGPKeyID	
PGPKeyPacket	

# Enum ItemsChoiceType2

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType2
```

## Fields

Name	Description
Item	
KeyName	
KeyValue	
MgmtData	
PGPData	
RetrievalMethod	
SPKIData	
X509Data	

# Class KeyInfoType

## Inheritance

[object](#)  
KeyInfoType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class KeyInfoType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType2[] ItemsElementName { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ItemsChoiceType2[]</a>	
------------------------------------	--

## Text

### Declaration

```
public string[] Text { get; set; }
```

**Property Value**

**Type Description**

[string\[\]](#)

# Class KeyValueType

## Inheritance

[object](#)  
KeyValueType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class KeyValueType
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

# Class ManifestType

## Inheritance

[object](#)

ManifestType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ManifestType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Reference

#### Declaration

```
public ReferenceType[] Reference { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReferenceType[]</a>	

# Class ObjectType

## Inheritance

[object](#)

ObjectType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ObjectType
```

## Properties

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

#### Type Description

[XmlNode\[\]](#)

### Encoding

#### Declaration

```
public string Encoding { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### MimeType

#### Declaration



```
public string MimeType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PDFDocumentType

## Inheritance

[object](#)  
PDFDocumentType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PDFDocumentType
```

## Properties

### Document

#### Declaration

```
public byte[] Document { get; set; }
```

#### Property Value

### Type Description

[byte](#)[]

# Class PGPDataType

## Inheritance

[object](#)  
PGPDataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PGPDataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType1[] ItemsElementName { get; set; }
```

#### Property Value

Type	Description
<a href="#">ItemsChoiceType1[]</a>	

# Class PlainTextType

## Inheritance

[object](#)

PlainTextType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PlainTextType
```

## Properties

### Document

#### Declaration

```
public byte[] Document { get; set; }
```

#### Property Value

### Type Description

[byte\[\]](#)

### Rendering

#### Declaration

```
public RenderingType Rendering { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">RenderingType</a>	
-------------------------------	--

# Class PropertyType

## Inheritance

[object](#)

PropertyType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PropertyType
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

### Key

#### Declaration

```
public string Key { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class RSAKeyValueType

## Inheritance

[object](#)

RSAKeyValueType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RSAKeyValueType
```

## Properties

### Exponent

#### Declaration

```
public byte[] Exponent { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### Modulus

#### Declaration

```
public byte[] Modulus { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

# Class ReferenceType

## Inheritance

[object](#)

ReferenceType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ReferenceType
```

## Properties

### DigestMethod

#### Declaration

```
public DigestMethodType DigestMethod { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DigestMethodType</a>	
----------------------------------	--

### DigestValue

#### Declaration

```
public byte[] DigestValue { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Transforms

#### Declaration

```
public TransformType[] Transforms { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	

#### Type

#### Declaration

```
public string Type { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### URI

#### Declaration

```
public string URI { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### WithTransforms(TransformsType)

#### Declaration

```
public ReferenceType WithTransforms(TransformsType transformsType)
```

#### Parameters

Type	Name	Description
<a href="#">TransformsType</a>	transformsType	

#### Returns

Type	Description
<a href="#">ReferenceType</a>	



# Class RenderingType

## Inheritance

[object](#)  
RenderingType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RenderingType
```

## Properties

### UseMonoSpaceFont

#### Declaration

```
public bool UseMonoSpaceFont { get; set; }
```

#### Property Value

### Type Description

[bool](#)

# Class RetrievalMethodType

## Inheritance

[object](#)

RetrievalMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RetrievalMethodType
```

## Properties

### Transforms

#### Declaration

```
public TransformType[] Transforms { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	

### Type

#### Declaration

```
public string Type { get; set; }
```

#### Property Value

### Type Description

[string](#)

### URI

#### Declaration

```
public string URI { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class SPKIDataType

## Inheritance

[object](#)

SPKIDataType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SPKIDataType
```

## Properties

### Any

#### Declaration

```
public XmlElement Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlElement</a>	
----------------------------	--

### SPKISexp

#### Declaration

```
public byte[][] SPKISexp { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">byte[][]</a>	
--------------------------	--

# Class SignTextType

## Inheritance

[object](#)

SignTextType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignTextType
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

## Properties

#### Declaration

```
public PropertyType[] Properties { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">PropertyType[]</a>	
--------------------------------	--

### id

#### Declaration

```
public string id { get; set; }
```

#### Property Value

### Type Description

[string](#)

## Methods

**GetHTMLDocument()**

**Declaration**

```
public HTMLDocumentType GetHTMLDocument()
```

**Returns**

Type	Description
<a href="#">HTMLDocumentType</a>	

**GetPDFDocument()****Declaration**

```
public PDFDocumentType GetPDFDocument()
```

**Returns**

Type	Description
<a href="#">PDFDocumentType</a>	

**GetPlainTextDocument()****Declaration**

```
public PlainTextType GetPlainTextDocument()
```

**Returns**

Type	Description
<a href="#">PlainTextType</a>	

**GetXMLDocument()****Declaration**

```
public XMLDocumentType GetXMLDocument()
```

**Returns**

Type	Description
<a href="#">XMLDocumentType</a>	

**WithHTMLDocument(HTMLDocumentType)****Declaration**

```
public SignTextType WithHTMLDocument(HTMLDocumentType HTMLDocumentType)
```

**Parameters**

Type	Name	Description
<a href="#">HTMLDocumentType</a>	HTMLDocumentType	

**Returns**

Type	Description
<a href="#">SignTextType</a>	

**WithPDFDocument(PDFDocumentType)****Declaration**

```
public SignTextType WithPDFDocument(PDFDocumentType pdfDocumentType)
```

#### Parameters

Type	Name	Description
<a href="#">PDFDocumentType</a>	pdfDocumentType	

#### Returns

Type	Description
<a href="#">SignTextType</a>	

#### WithPlainText(PlainTextType)

#### Declaration

```
public SignTextType WithPlainText(PlainTextType plainTextType)
```

#### Parameters

Type	Name	Description
<a href="#">PlainTextType</a>	plainTextType	

#### Returns

Type	Description
<a href="#">SignTextType</a>	

#### WithProperties(SignProperties)

#### Declaration

```
public SignTextType WithProperties(SignProperties signProperties)
```

#### Parameters

Type	Name	Description
<a href="#">SignProperties</a>	signProperties	

#### Returns

Type	Description
<a href="#">SignTextType</a>	

#### WithXMLDocument(XMLDocumentType)

#### Declaration

```
public SignTextType WithXMLDocument(XMLDocumentType xmlDocumentType)
```

#### Parameters

Type	Name	Description
<a href="#">XMLDocumentType</a>	xmlDocumentType	

#### Returns

Type	Description
<a href="#">SignTextType</a>	

# Class SignatureMethodType

## Inheritance

[object](#)

SignatureMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

### Type Description

[XmlNode\[\]](#)

### HMACOutputLength

#### Declaration

```
public string HMACOutputLength { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class SignaturePropertiesType

## Inheritance

[object](#)

SignaturePropertiesType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignaturePropertiesType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SignatureProperty

#### Declaration

```
public SignaturePropertyType[] SignatureProperty { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignaturePropertyType[]</a>	



# Class SignaturePropertyType

## Inheritance

[object](#)

SignaturePropertyType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignaturePropertyType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public XmlElement[] Items { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlElement[]</a>	
------------------------------	--

### Target

#### Declaration

```
public string Target { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

**Property Value**

**Type Description**

[string\[\]](#)

# Class SignatureType

## Inheritance

[object](#)

SignatureType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### KeyInfo

#### Declaration

```
public KeyInfoType KeyInfo { get; set; }
```

#### Property Value

Type	Description
------	-------------

[KeyInfoType](#)

### Object

#### Declaration

```
public ObjectType[] Object { get; set; }
```

#### Property Value

Type	Description
------	-------------

[ObjectType\[\]](#)

### SignatureValue

#### Declaration

```
public SignatureValueType SignatureValue { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignatureValueType</a>	

#### SignedInfo

##### Declaration

```
public SignedInfoType SignedInfo { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignedInfoType</a>	

#### Methods

##### WithId(string)

##### Declaration

```
public SignatureType WithId(string signatureId)
```

##### Parameters

Type	Name	Description
<a href="#">string</a>	signatureId	

##### Returns

Type	Description
<a href="#">SignatureType</a>	

##### WithSignedInfo(SignedInfoType)

##### Declaration

```
public SignatureType WithSignedInfo(SignedInfoType signedInfoType)
```

##### Parameters

Type	Name	Description
<a href="#">SignedInfoType</a>	signedInfoType	

##### Returns

Type	Description
<a href="#">SignatureType</a>	

# Class SignatureValueType

## Inheritance

[object](#)

SignatureValueType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureValueType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Value

#### Declaration

```
public byte[] Value { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

# Class SignedDocumentType

## Inheritance

[object](#)

SignedDocumentType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignedDocumentType
```

## Properties

### SignText

#### Declaration

```
public SignTextType SignText { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignTextType</a>	

### Signature

#### Declaration

```
public SignatureType Signature { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignatureType</a>	

# Class SignedInfoType

## Inheritance

[object](#)

SignedInfoType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignedInfoType
```

## Properties

### CanonicalizationMethod

#### Declaration

```
public CanonicalizationMethodType CanonicalizationMethod { get; set; }
```

#### Property Value

Type	Description
<a href="#">CanonicalizationMethodType</a>	

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Reference

#### Declaration

```
public ReferenceType[] Reference { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReferenceType[]</a>	

### SignatureMethod

#### Declaration

```
public SignatureMethodType SignatureMethod { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignatureMethodType</a>	

## Methods

### WithReference(ReferenceType)

#### Declaration

```
public SignedInfoType WithReference(ReferenceType referenceType)
```

#### Parameters

Type	Name	Description
<a href="#">ReferenceType</a>	referenceType	

#### Returns

Type	Description
<a href="#">SignedInfoType</a>	

### WithSignatureMethod(SignatureMethodType)

#### Declaration

```
public SignedInfoType WithSignatureMethod(SignatureMethodType signatureMethod)
```

#### Parameters

Type	Name	Description
<a href="#">SignatureMethodType</a>	signatureMethod	

#### Returns

Type	Description
<a href="#">SignedInfoType</a>	

### withCanonicalizationMethod(CanonicalizationMethodType)

#### Declaration

```
public SignedInfoType withCanonicalizationMethod(CanonicalizationMethodType canonicalizationMethodType)
```

#### Parameters

Type	Name	Description
<a href="#">CanonicalizationMethodType</a>	canonicalizationMethodType	

#### Returns

Type	Description
<a href="#">SignedInfoType</a>	



# Class TransformType

## Inheritance

[object](#)

TransformType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TransformType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

### Type Description

[object\[\]](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

## Methods

### CreateTransformType()

**Declaration**

```
public static TransformType CreateTransformType()
```

**Returns**

Type	Description
<a href="#">TransformType</a>	

**WithAlgorithm(string)****Declaration**

```
public TransformType WithAlgorithm(string algorithm)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	algorithm	

**Returns**

Type	Description
<a href="#">TransformType</a>	

# Class TransformsType

## Inheritance

[object](#)

TransformsType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TransformsType
```

## Properties

### Transform

#### Declaration

```
public TransformType[] Transform { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	

## Methods

### CreateTransformsType()

#### Declaration

```
public static TransformsType CreateTransformsType()
```

#### Returns

Type	Description
<a href="#">TransformsType</a>	

### WithTransform(TransformType)

#### Declaration

```
public TransformsType WithTransform(TransformType transformType)
```

#### Parameters

Type	Name	Description
<a href="#">TransformType</a>	transformType	

#### Returns

**Type**      **Description**

[TransformsType](#)

# Class X509DataType

## Inheritance

[object](#)  
X509DataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class X509DataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType[] ItemsElementName { get; set; }
```

#### Property Value

##### Type Description

[ItemsChoiceType\[\]](#)

# Class X509IssuerSerialType

## Inheritance

[object](#)

X509IssuerSerialType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class X509IssuerSerialType
```

## Properties

### X509IssuerName

#### Declaration

```
public string X509IssuerName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### X509SerialNumber

#### Declaration

```
public string X509SerialNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class XMLDocumentType

## Inheritance

[object](#)

XMLDocumentType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Signing.Xades.XmlDsig](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class XMLDocumentType
```

## Properties

### Document

#### Declaration

```
public byte[] Document { get; set; }
```

#### Property Value

### Type Description

[byte](#)[]

### Transformation

#### Declaration

```
public byte[] Transformation { get; set; }
```

#### Property Value

### Type Description

[byte](#)[]

# Namespace RetailForce.Fiscalisation.Implementation.Flink

## Classes

### [ClientConfiguration](#)

Base client configuration for all flink connected modules

### [FlinkFiscalProperties<TRequiredAttribute>](#)

Fiscal properties base for Flink implementation fiscal modules.

### [FlinkHttpClient](#)

Flink Http client to flink middleware client.

### [FlinkValidation](#)

### [HttpFlinkCommand](#)

Represents a flink command (will be flatten as string to send to http interface)

### [HttpFlinkInterface](#)

Rest Implementation of flink fiscal middleware interface.

### [IntegratedFlinkInterface](#)

NuGet Implementation of flink fiscal middleware interface.

### [TrustedFiscalModuleFlink<IClientConfiguration, TRequiredAttribute, TCountryProperties>](#)

Abstract base class for all countries depending on flink interface.

## Interfaces

### [IFlinkFiscalCountryProperties](#)

Fiscal country interface for all flink derived modules.

### [IFlinkInterface](#)

Interface to flink fiscal middleware.

## Enums

### [FlinkDiscountType](#)

The type of discount (discount/surcharge)



# Class ClientConfiguration

Base client configuration for all flink connected modules

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

[ClientConfiguration](#)

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

### Declaration

```
public bool CloudArchive { get; set; }
```

### Property Value

### Type Description

[bool](#)

### Encoding

Possible setting for encoding sent to flink service. Default is UTF8.

### Declaration

```
public int? Encoding { get; set; }
```

**Property Value**

#### **Type Description**

[int?](#)

### **FLinkPaymentMapping**

Payment mapping for FLink printer driver.

**Declaration**

```
public Dictionary<PaymentType, int> FLinkPaymentMapping { get; set; }
```

**Property Value**

Type	Description
<a href="#">Dictionary&lt;PaymentType, int&gt;</a>	

### **FiscalCountry**

The fiscal country of the client configuration.

**Declaration**

```
public abstract FiscalCountry FiscalCountry { get; }
```

**Property Value**

Type	Description
<a href="#">FiscalCountry</a>	

### **FlinkHttpInterfaceUrl**

The interface url for http flink interface. If not set "http://localhost:5530" is used.

**Declaration**

```
public string FlinkHttpInterfaceUrl { get; set; }
```

**Property Value**

#### **Type Description**

[string](#)

### **ItemCaptionFormat**

Optional. Format ItemCaption on fiscal printer printout.

**Declaration**

```
public string ItemCaptionFormat { get; set; }
```

**Property Value**

#### **Type Description**

[string](#)

### **SimplifiedInvoiceBusinessTaxNumberCaption**

Possible overwrite for business tax number caption. Default is: 3ДДС

#### Declaration

```
public string SimplifiedInvoiceBusinessTaxNumberCaption { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceCaption

Possible overwrite for simplified invoice caption (invoice number). Default is: Получател

#### Declaration

```
public string SimplifiedInvoiceCaption { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceNetAmountCaption

Possible overwrite for simplified invoice net amount caption in vat overview. Default is: Hero ct-ct

#### Declaration

```
public string SimplifiedInvoiceNetAmountCaption { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceOriginalText

Possible overwrite for simplified invoice text "original". Default is: ОРИГИНАЛ

#### Declaration

```
public string SimplifiedInvoiceOriginalText { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceReferenceCaption

Possible overwrite for simplified invoice reference (document reference) caption. Default is: към фактура

#### Declaration

```
public string SimplifiedInvoiceReferenceCaption { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## SimplifiedInvoiceTaxNumberCaption

Possible overwrite for simplified invoice tax number caption (tax number of customer). Default is: ДДС Номер

### Declaration

```
public string SimplifiedInvoiceTaxNumberCaption { get; set; }
```

### Property Value

### Type Description

[string](#)

## SimplifiedInvoiceTaxSymbol

Possible overwrite for tax symbol on simplified invoice. Default is: Б

### Declaration

```
public string SimplifiedInvoiceTaxSymbol { get; set; }
```

### Property Value

### Type Description

[string](#)

## SimplifiedInvoiceVatAmountCaption

Possible overwrite for simplified invoice vat amount caption in vat overview. Default is: ЕИК

### Declaration

```
public string SimplifiedInvoiceVatAmountCaption { get; set; }
```

### Property Value

### Type Description

[string](#)

## SimplifiedReturnCaption

Possible overwrite for simplified invoice return caption (return number). Default is: Кредит

### Declaration

```
public string SimplifiedReturnCaption { get; set; }
```

### Property Value

### Type Description

[string](#)

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

### Declaration

```
public virtual void Encrypt(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	
----------------------	----------------	--

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

#### Declaration

```
public virtual void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

#### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public virtual void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

### Implements

[IFiscalImplementationConfiguration](#)

# Enum FlinkDiscountType

The type of discount (discount/surcharge)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum FlinkDiscountType
```

## Fields

Name	Description
Discount	
Surcharge	

## Class FlinkFiscalProperties<TRequiredAttribute>

Fiscal properties base for Flink implementation fiscal modules.

### Inheritance

[object](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>](#)

[FlinkFiscalProperties<TRequiredAttribute>](#)

[BulgarianFiscalProperties](#)

[PolandFiscalProperties](#)

[RomaniaFiscalProperties](#)

### Implements

[IFlinkFiscalCountryProperties](#)

[IFiscalCountryProperties](#)

### Inherited Members

[FiscalCountryPropertiesBase<TRequiredAttribute>.FiscalCountry](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.FiscalDocumentTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SupportedDocumentTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.NotSupportedDocumentTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SupportedPaymentTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.NotSupportedPaymentTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SupportedBusinessTransactionTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SupportedVatDefinitions](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.CustomerDisplayMandatory](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.AuditLogMandatory](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.MustRecordDocumentReprint](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.ReprintAllowedDomain](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.MustSendClosingPerDay](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.MaximumHourIntervalForClosing](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.ReturnAndSaleBehavior](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.ReturnReferenceBehavior](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.ReturnDomainAllowed](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.PrintFiscalDocumentNumber](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.GetCloudArchiveAccessLicense](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.CountryModuleVersion](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SurchargesPossible](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.TrainingModeAllowed](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.TaxFreeVat](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<TRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public abstract class FlinkFiscalProperties<TRequiredAttribute> : FiscalCountryPropertiesBase<TRequiredAttribute>, IFlinkFiscalCountryProperties, IFiscalCountryProperties where T
```

### Type Parameters

Name	Description
TRequiredAttribute	The required attribute for the appropriate country.

## Properties

### FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

#### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<TRequiredAttribute>.FiscalLineInterface](#)

## TaxGroupMapping

The tax group mapping

**Declaration**

```
public abstract Dictionary<int, int> TaxGroupMapping { get; }
```

**Property Value**

Type	Description
<a href="#">Dictionary&lt;int, int&gt;</a>	

**Implements**

[IFlinkFiscalCountryProperties](#)  
[IFiscalCountryProperties](#)



# Class FlinkHttpClient

Flink Http client to flink middleware client.

## Inheritance

[object](#)

GenericServiceClient

FlinkHttpClient

## Inherited Members

GenericServiceClient.BaseUrl

GenericServiceClient.BodyContentType

GenericServiceClient.TimeOut

[GenericServiceClient.DoTypedRequest<TType>\(string, string, string, params QueryParameter\[\]\)](#)

[GenericServiceClient.DoRequest\(string, string, string, params QueryParameter\[\]\)](#)

[GenericServiceClient.DoByteRequest\(string, string, byte\[\], params QueryParameter\[\]\)](#)

[GenericServiceClient.DoMultiPartFormDataRequest\(string, string, string, Stream, NameValueCollection, params QueryParameter\[\]\)](#)

[GenericServiceClient.DownloadFile\(string, string, string, string, params QueryParameter\[\]\)](#)

[GenericServiceClient.DoHeadRequest\(string, params QueryParameter\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FlinkHttpClient : GenericServiceClient
```

## Constructors

**FlinkHttpClient(string, string, ILogger)**

Constructor.

## Declaration

```
public FlinkHttpClient(string baseUrl, string flinkDebugDirectory, ILogger logger)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	baseUrl	The base url of the flink interface.
<a href="#">string</a>	flinkDebugDirectory	The directory to store the last 15 requests to flink for analysis.
<a href="#">ILogger</a>	logger	Additional logger for logging purposes.

## Methods

**Post(HttpFlinkCommand, int?, bool)**

Post a command to flink interface and gets return.

#### Declaration

```
public string Post(HttpFlinkCommand command, int? encoding, bool removeJEntries = false)
```

#### Parameters

Type	Name	Description
<a href="#">HttpFlinkCommand</a>	command	A <a href="#">HttpFlinkCommand</a> object representing the flink command.
<a href="#">int?</a>	encoding	
<a href="#">bool</a>	removeJEntries	True if the answer from printer should be removed entries starting with J; false if J entries should be preserved (only J entries). Default is false.

#### Returns

Type	Description
<a href="#">string</a>	The response of this command.

#### PostCommandList(List<HttpFlinkCommand>, Guid, int?)

Posts a list of commands to flink interface and gets return.

#### Declaration

```
public string PostCommandList(List<HttpFlinkCommand> commands, Guid documentGuid, int? encoding)
```

#### Parameters

Type	Name	Description
<a href="#">List&lt;HttpFlinkCommand&gt;</a>	commands	A list of <a href="#">HttpFlinkCommand</a> objects representing a whole document.
<a href="#">Guid</a>	documentGuid	The guid of the corresponding document; send <a href="#">Empty</a> is not used.
<a href="#">int?</a>	encoding	

#### Returns

Type	Description
<a href="#">string</a>	The response for this commands.

# Class FlinkValidation

## Inheritance

[object](#)  
FlinkValidation

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FlinkValidation
```

## Methods

### ValidateDocument(Document)

Basic validation for all flink modules.

### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.

### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of validation errors if occurred; otherwise an empty list.

# Class HttpFlinkCommand

Represents a flink command (will be flatten as string to send to http interface)

## Inheritance

[object](#)

HttpFlinkCommand

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class HttpFlinkCommand
```

## Constructors

### HttpFlinkCommand(char)

Constructor.

#### Declaration

```
public HttpFlinkCommand(char command)
```

#### Parameters

Type	Name	Description
<a href="#">char</a>	command	The command char (look at flink documentation).

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>command</code> is set to null or empty string.

## Methods

### AddField(decimal)

Adds a field to the field list.

#### Declaration

```
public void AddField(decimal field)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

[decimal](#) field The field value as decimal.

### AddField(int)

Adds a field to the field list.

#### Declaration

```
public void AddField(int field)
```

#### Parameters

Type	Name	Description
------	------	-------------

[int](#) field The field value as integer.

### AddField(decimal?)

Adds a field to the field list.

#### Declaration

```
public void AddField(decimal? field)
```

#### Parameters

Type	Name	Description
------	------	-------------

[decimal?](#) field The field value as decimal.

### AddField(int?)

Adds a field to the field list.

#### Declaration

```
public void AddField(int? field)
```

#### Parameters

Type	Name	Description
------	------	-------------

[int?](#) field The field value as integer.

### AddField(string, int?)

Adds a field to the field list.

#### Declaration

```
public void AddField(string field, int? maxLength = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) field The field value as string.

Type	Name	Description
------	------	-------------

<a href="#">int?</a>	maxLength	Optional. The max length of the string; other data will be truncated.
----------------------	-----------	---

### AddField(uint)

Adds a field to the field list.

#### Declaration

```
public void AddField(uint field)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">uint</a>	field	The field value as integer.
----------------------	-------	-----------------------------

### ToString()

Returns the command as string representation for http flink interface.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The command as string representation for http flink interface.
------------------------	--

#### Overrides

[object.ToString\(\)](#)

## Class HttpFlinkInterface

Rest Implementation of flink fiscal middleware interface.

### Inheritance

[object](#)  
HttpFlinkInterface

### Implements

[IFlinkInterface](#)

### Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class HttpFlinkInterface : IFlinkInterface
```

### Remarks

According to questions in email from 24th of January, all string data will be truncated if too long.

## Constructors

### HttpFlinkInterface(ILogger, string, bool, string, int?)

Constructor.

### Declaration

```
public HttpFlinkInterface(ILogger logger, string clientStoragebasePath, bool sendDocumentAtOnce, string baseUrl = "http://localhost:5530", int? encoding = null)
```

### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for the interface.
<a href="#">string</a>	clientStoragebasePath	The storage base path for the fiscal module client.
<a href="#">bool</a>	sendDocumentAtOnce	True if the document is sent "at once" to the printer; otherwise false.
<a href="#">string</a>	baseUrl	The interface url for http flink interface. If not set "http://localhost:5530" is used.
<a href="#">int?</a>	encoding	An optional parameter to set encoding (codepage) for sending data to flink. Default is UTF8.

## Properties

### SendDocumentAtOnce

True if the whole document is sent at once; Otherwise false.

### Declaration

```
public bool SendDocumentAtOnce { get; }
```

### Property Value

### Type Description

[bool](#)

## Methods

### CancelReceipt()

Cancels a receipt if one is open.

### Declaration

```
public string CancelReceipt()
```

### Returns

### Type Description

[string](#)

### Remarks

Flink command: N N,[logical number],\_\_\_;

After this command, the printer is ready to start a new receipt. If non-fiscal receipt is open, it is simply closed. If fiscal receipt is opened, attempt is made to cancel (void) all the sales in it and then it is closed. If the attempt is successful, the total of the canceled receipt is zero. If not - it is not zero. It is not possible to cancel sales in a receipt if a payment has been sent. In this case the only option is to send more payments (if necessary) and close the receipt.

### ClearCommands()

Method to clear command cache (in case of an error).

#### Declaration

```
public void ClearCommands()
```

#### Discount([FlinkDiscountType](#), decimal)

Adds a discount / surcharge in percents

#### Declaration

```
public string Discount(FlinkDiscountType discountType, decimal percent)
```

#### Parameters

Type	Name	Description
<a href="#">FlinkDiscountType</a>	discountType	One number with a value 0 (surcharge) or 1 (discount).
<a href="#">decimal</a>	percent	The value of the discount or surcharge in percents (0 -> 99.99).

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: C C,[logical number],\_\_\_,;[type];[percent];::;

If prior to this command a payment is made with parameter 4, a discount/surcharge will be made on the subtotal. Otherwise, the discount/surcharge is made on the sum of the last sale. MP-50 and MP-55 carry out a discount/surcharge on subtotal only. With the FPs this command cannot be executed more than once on one and the same sale or subtotal. In this case, F-Link will do only the first discount/surcharge and will stop whenever it meets an invalid C command.

#### DisplayText(string, string)

Print text on the ECR display. If [Line] is empty, it will be deleted. The maximum length of the text depends on the actual display.

#### Declaration

```
public string DisplayText(string line1, string line2)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	line1	First line to display on ecr.
<a href="#">string</a>	line2	Second line to display on ecr.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: E

#### ExportKlen(uint, uint)

Returns klen export (depending on country and implementation).

#### Declaration

```
public string ExportKlen(uint zReportNumberFrom, uint zReportNumberTo)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	zReportNumberFrom	Starting z-report number.
<a href="#">uint</a>	zReportNumberTo	Stopping z-report number.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: R SendCommands not necessary, posted immediately.

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if zReportNumberTo is smaller than zReportNumberFrom.

#### ExportZReportByBlock(uint, uint)

Prints or returns block report (depending on country and implementation).

#### Declaration

```
public string ExportZReportByBlock(uint fromBlock, uint toBlock)
```

#### Parameters



**Type Name Description**

[uint](#) fromBlock Starting block number.

[uint](#) toBlock Stopping block number.

Returns

**Type Description**

[string](#)

Remarks

Flink command: R SendCommands not necessary, posted immediately.

Exceptions

Type	Condition
------	-----------

[ArgumentOutOfRangeException](#) Thrown if toBlock is smaller than fromBlock.

**ExportZReportByDate(bool, DateTime, DateTime)**

Prints or returns z-report (depending on country and implementation).

Declaration

```
public string ExportZReportByDate(bool detailed, DateTime fromDate, DateTime tillDate)
```

Parameters

Type	Name	Description
------	------	-------------

[bool](#) detailed True if detailed report should be generated; otherwise summarized report will be printed.

[DateTime](#) fromDate Start date for report.

[DateTime](#) tillDate End date for report.

Returns

**Type Description**

[string](#)

Remarks

Flink command: R SendCommands not necessary, posted immediately.

Exceptions

Type	Condition
------	-----------

[ArgumentOutOfRangeException](#) Thrown if tillDate is smaller than fromDate.

**GenerateClosingOrCancelReceipt()**

Generates a daily financial report or cancels a fiscal receipt

Declaration

```
public string GenerateClosingOrCancelReceipt()
```

Returns

**Type Description**

[string](#)

Remarks

Flink command: Z Generates a daily financial report without clear.

Cancels an entire fiscal receipt. The cancel command is performed if

- there is an open fiscal receipt
- there was no %-% on subtotal
- payment has not started

**ItemDelete(string)**

Deletes an article (or all).

Declaration

```
public string ItemDelete(string code)
```

Parameters

Type Name	Description
-----------	-------------

[string](#) code Is the code of an article to be deleted. It can be the same as its PLU. The code is used by the user application and the PLU is used by the cash register and the connection between them is made by F-Link. Instead of Code, this parameter can be ALL, which means delete all articles.

Returns

## Type Description

[string](#)

## Remarks

Flink command: O O<sub>i</sub>[logical number],\_\_\_,;[Code | ALL];[End Code];

ECR will not carry out this command if

- There are sales after the last Z-Report for this article(in this case only the price can be changed).

## ItemSale(string, string, decimal, decimal, int?, int?, int?, string, int?, decimal?, string)

Sale of an article

## Declaration

```
public string ItemSale(string code, string name, decimal price, decimal quantity, int? stand = null, int? articleGroup = null, int? taxGroup = null, string barcode = null, int? d
```

## Parameters

Type	Name	Description
<a href="#">string</a>	code	Is the code of the article. It can be the same as its PLU. The code is used by the user application and the PLU is used by the cash register and the connection between them is made by F-Link. If F-Link is set up to sell by PLU and the article is not programmed or its price is different, F-Link first tries to program the article (or change the price) and then to sell it.
<a href="#">string</a>	name	Is the name of the article (up to 22 symbols for ECR and up to 23 for FP)
<a href="#">decimal</a>	price	Is the price of a single article (0 -> 999999.99)
<a href="#">decimal</a>	quantity	Is the quantity sold (0 -> 999999.999)
<a href="#">int?</a>	stand	Optional. Is the stand number (1 -> 9)
<a href="#">int?</a>	articleGroup	Optional. Is the number of the article group (a number 1 -> 99)
<a href="#">int?</a>	taxGroup	Optional. Is the tax group of the article (1 -> 9)
<a href="#">string</a>	barcode	Optional. Is the barcode of the article (EAN8, EAN13 or other). It can be empty if the article has no barcode or if the cash register does not support barcodes
<a href="#">int?</a>	discountPercent	Optional. Is discount or surcharge in percents (0 -> 99). Negative value is surcharge.
<a href="#">decimal?</a>	discountAmount	Optional. Is discount or surcharge in absolute value. Negative value is surcharge.
<a href="#">string</a>	quantityUnitId	Optional. Id of quantity unit for this position (mandatory in romania).

## Returns

## Type Description

[string](#)

## Remarks

Flink command: S S<sub>i</sub>[logical number],\_\_\_,;[name];[price];[quantity];[stand];[article group];[tax group];[Barcode];[Code];[discount percent]; [discount amount];

[discount percent] and [discount amount] cannot be used simultaneously in one command. The cash register will not carry out this command if

- the maximum number of sales(99) within a single receipt is already reached;
  - the sum by any of the tax groups is negative;
- the sum of discounts and surcharges within the receipt is negative;

## Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>stand</code> is not in the range from 1 to 9.

## OfficalCashInCashOut(decimal, string)

Official cash in and cash out of sums

## Declaration

```
public string OfficalCashInCashOut(decimal value, string remark)
```

## Parameters

Type	Name	Description
<a href="#">decimal</a>	value	
<a href="#">string</a>	remark	

## Returns

## Type Description

[string](#)

## Remarks

Flink command: I I<sub>i</sub>[logical number],\_\_\_,;[Type];[Sum];[Remark];;

The parameter "Remark" is not mandatory

- Type: "0" money in, "1" money out

- Sum Amount

### OpenDrawer()

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
public void OpenDrawer()
```

### OpenOfficialReceipt(string, string, string, string, string)

Opening of official receipt.

#### Declaration

```
public string OpenOfficialReceipt(string line1 = "", string line2 = "", string line3 = "", string line4 = "", string line5 = "")
```

#### Parameters

Type Name	Description
<a href="#">string</a> line1	To be printed line 1.
<a href="#">string</a> line2	To be printed line 2.
<a href="#">string</a> line3	To be printed line 3.
<a href="#">string</a> line4	To be printed line 4.
<a href="#">string</a> line5	To be printed line 5.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: Y Y,[logical number],\_\_\_\_,;[line 1]; [line 2];[line 3];[line 4];[line 5];

### OpenReturnReceipt(int?)

Opens a return receipt.

#### Declaration

```
public string OpenReturnReceipt(int? refNumber = null)
```

#### Parameters

Type	Name	Description
<a href="#">int?</a>	refNumber	Is the number of receipt which is the base (reason) for printing a return receipt.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: K K,[logical number],\_\_\_\_,;[Ref Number];

NOTE: This parameter is optional in Macedonia and obligatory in Serbian Republic – Bosnia and Herzegovina. NOTE: This command is supported (allowed) in a few countries only (like Macedonia, Bulgaria and Serbian Republic – Bosnia and Herzegovina). NOTE: You have to send detailed information in Bulgaria with M command for returns.

### PrintBarcode(BarcodeType, string)

Prints a bar code.

#### Declaration

```
public string PrintBarcode(BarcodeType type, string barcode)
```

#### Parameters

Type	Name	Description
<a href="#">BarcodeType</a>	type	The type of the bar code (ean8, ean13, code128).
<a href="#">string</a>	barcode	The barcode without check digit.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: V V,[logical number],\_\_\_\_,;[54][Type],[data]

type: '1' - EAN8, '2' - EAN13 '3' - Code 128.

### PrintText(string, string, string, string, string)

Print Text (up to 5 lines).

#### Declaration

```
public string PrintText(string line1, string line2 = null, string line3 = null, string line4 = null, string line5 = null)
```

#### Parameters

Type Name	Description
-----------	-------------

[string](#) line1 Prints a line to the printer. If an empty line should be printed line should contain spaces.

[string](#) line2 Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.

[string](#) line3 Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.

[string](#) line4 Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.

[string](#) line5 Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: P P,[logical number],\_\_.,;[line 1];[line 2];[line 3];[line 4];[line 5]

If the line is empty, it is not printed out. If it contains only spaces, it will be printed as an empty line. MP-5xx prints out only the first line. The maximum number of symbols per line depends on the actual cash register.

#### ReturnReceiptDetails(DateTime, int, string, string, int, string)

Adds additional information to a return receipt.

#### Declaration

```
public string ReturnReceiptDetails(DateTime refBookDate, int refFiscalDocumentNumber, string refDocumentNumber, string refDocumentNumberSeries, int reason, string reasonText)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	refBookDate	The book date of the referenced document.
<a href="#">int</a>	refFiscalDocumentNumber	The fiscal document number of the referenced document.
<a href="#">string</a>	refDocumentNumber	The document number of the fiscal document. Please refer to country documentation for this value.
<a href="#">string</a>	refDocumentNumberSeries	The series for the document numbers. Please refer to country documentation for this value.
<a href="#">int</a>	reason	The reason for the return (type as integer).
<a href="#">string</a>	reasonText	The reason text for the return.

#### Returns

#### Type Description

[string](#)

#### SendCommands(Guid?)

Sends all commands at once to the flink interface (if [SendDocumentAtOnce](#) is set to true).

#### Declaration

```
public string SendCommands(Guid? documentGuid = null)
```

#### Parameters

Type	Name	Description
<a href="#">Guid?</a>	documentGuid	The guid of the corresponding document. Optional.

#### Returns

Type	Description
------	-------------

[string](#) The return for all of this commands.

#### Synchronize Time()

Synchronizes time command.

#### Declaration

```
public string SynchronizeTime()
```

#### Returns

Type	Description
------	-------------

**Type Description**

[string](#) Answer of the printer if command is sent immediately to the printer.

**Remarks**

Flink command: L

No additional parameters.

**TotalOrPayment(int, decimal)**

End of receipt and payment.

**Declaration**

```
public string TotalOrPayment(int code, decimal sum)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">int</a>	code	Is the payment code: 0, 1, 2, 3, or 4; numbers from 0 to 3 correspond to payment in cash, on credit, check and credit card payment; subtotal is calculated with 4; Payment type "1" (On credit) is not supported in Serbia!
---------------------	------	---

<a href="#">decimal</a>	sum	Is the sum to be paid.
-------------------------	-----	------------------------

**Returns**

**Type Description**

[string](#)

**Remarks**

Flink command: T Command T has two forms - End of receipt and Payment: T,[logical number],,;; *Payment in cash is made for the whole sum, together with closure of the fiscal receipt. With MP-5xx this command also closes an official receipt. T,[logical number],,;[code];[sum];,;* Payment is made with the indicated sum and payment type, and if the paid sum is larger than the sum due for payment, the receipt is closed. Unless this happens, what can be executed are only this command and the print text command. When a discount/surcharge must be made on the sum accumulated to the moment (subtotal), the command is sent for with code 4.

**Implements**

[IFlinkInterface](#)

# Interface IFlinkFiscalCountryProperties

Fiscal country interface for all flink derived modules.

## Inherited Members

[IFiscalCountryProperties.FiscalCountry](#)  
[IFiscalCountryProperties.FiscalLineInterface](#)  
[IFiscalCountryProperties.StartDocumentType](#)  
[IFiscalCountryProperties.FiscalDocumentTypes](#)  
[IFiscalCountryProperties.SupportedDocumentTypes](#)  
[IFiscalCountryProperties.NotSupportedDocumentTypes](#)  
[IFiscalCountryProperties.SupportedPaymentTypes](#)  
[IFiscalCountryProperties.NotSupportedPaymentTypes](#)  
[IFiscalCountryProperties.SupportedBusinessTransactionTypes](#)  
[IFiscalCountryProperties.NotSupportedBusinessTransactionTypes](#)  
[IFiscalCountryProperties.SupportedPayOutTypes](#)  
[IFiscalCountryProperties.NotSupportedPayOutTypes](#)  
[IFiscalCountryProperties.DocumentTypeBusinessTransactionTypeSupport](#)  
[IFiscalCountryProperties.SupportedVatDefinitions](#)  
[IFiscalCountryProperties.FiscalModuleCalculatesTaxRates](#)  
[IFiscalCountryProperties.CustomerDisplayMandatory](#)  
[IFiscalCountryProperties.AuditLogMandatory](#)  
[IFiscalCountryProperties.MustRecordDocumentReprint](#)  
[IFiscalCountryProperties.ReprintAllowedDomain](#)  
[IFiscalCountryProperties.MustSendClosingPerDay](#)  
[IFiscalCountryProperties.MaximumHourIntervalForClosing](#)  
[IFiscalCountryProperties.ReturnAndSaleBehavior](#)  
[IFiscalCountryProperties.ReturnReferenceBehavior](#)  
[IFiscalCountryProperties.ReturnDomainAllowed](#)  
[IFiscalCountryProperties.PrintFiscalDocumentNumber](#)  
[IFiscalCountryProperties.GetCloudArchiveAccessLicense](#)  
[IFiscalCountryProperties.CountryModuleVersion](#)  
[IFiscalCountryProperties.TaxFreeVat](#)  
[IFiscalCountryProperties.StoreNumberValidCharsRegex](#)  
[IFiscalCountryProperties.TerminalNumberValidCharsRegex](#)  
[IFiscalCountryProperties.FiscalRegions](#)  
[IFiscalCountryProperties.SurchargesPossible](#)  
[IFiscalCountryProperties.TrainingModeAllowed](#)  
[IFiscalCountryProperties.AmountDecimalPlaces](#)  
[IFiscalCountryProperties.SupportedEnvironments](#)  
[IFiscalCountryProperties.EntityParameters](#)  
[IFiscalCountryProperties.ValidateClient\(FiscalClient\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IFlinkFiscalCountryProperties : IFiscalCountryProperties
```

## Properties

### TaxGroupMapping

The tax group mapping for the printer.

### Declaration

```
Dictionary<int, int> TaxGroupMapping { get; }
```

### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">Dictionary&lt;int, int&gt;</a>	

## Interface IFlinkInterface

Interface to flink fiscal middleware.

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public interface IFlinkInterface
```

### Properties

#### SendDocumentAtOnce

True if the whole document is sent at once; Otherwise false.

#### Declaration

```
bool SendDocumentAtOnce { get; }
```

#### Property Value

#### Type Description

[bool](#)

### Methods

#### CancelReceipt()

Cancels a receipt if one is open.

#### Declaration

```
string CancelReceipt()
```

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: N N,[logical number],\_\_\_,;

After this command, the printer is ready to start a new receipt. If non-fiscal receipt is open, it is simply closed. If fiscal receipt is opened, attempt is made to cancel (void) all the sales in it and then it is closed. If the attempt is successful, the total of the canceled receipt is zero. If not - it is not zero. It is not possible to cancel sales in a receipt if a payment has been sent. In this case the only option is to send more payments (if necessary) and close the receipt.

#### ClearCommands()

Method to clear command cache (in case of an error).

#### Declaration

```
void ClearCommands()
```

#### Discount(FlinkDiscountType, decimal)

Adds a discount / surcharge in percents

#### Declaration

```
string Discount(FlinkDiscountType discountType, decimal percent)
```

#### Parameters

Type	Name	Description
<a href="#">FlinkDiscountType</a>	discountType	One number with a value 0 (surcharge) or 1 (discount).
<a href="#">decimal</a>	percent	The value of the discount or surcharge in percents (0 -> 99.99).

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: C C,[logical number],\_\_\_,;[type];[percent];;;

If prior to this command a payment is made with parameter 4, a discount/surcharge will be made on the subtotal. Otherwise, the discount/surcharge is made on the sum of the last sale. MP-50 and MP-55 carry out a discount/surcharge on subtotal only. With the FPs this command cannot be executed more than once on one and the same sale or subtotal. In this case, F-Link will do only the first discount/surcharge and will stop whenever it meets an invalid C command.

#### DisplayText(string, string)

Print text on the ECR display. If [Line] is empty, it will be deleted. The maximum length of the text depends on the actual display.

#### Declaration

```
string DisplayText(string line1, string line2)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	line1	First line to display on ecr.



Type Name	Description
-----------	-------------

[string](#) line2 Second line to display on ecr.

Returns

Type Description

[string](#)

Remarks

Flink command: E

ExportKlen(uint, uint)

Returns klen export (depending on country and implementation).

Declaration

```
string ExportKlen(uint zReportNumberFrom, uint zReportNumberTo)
```

Parameters

Type	Name	Description
------	------	-------------

[uint](#) zReportNumberFrom Starting z-report number.

[uint](#) zReportNumberTo Stopping z-report number.

Returns

Type Description

[string](#)

Remarks

Flink command: R SendCommands not necessary, posted immediately.

ExportZReportByBlock(uint, uint)

Prints or returns block report (depending on country and implementation).

Declaration

```
string ExportZReportByBlock(uint fromBlock, uint toBlock)
```

Parameters

Type	Name	Description
------	------	-------------

[uint](#) fromBlock Starting block number.

[uint](#) toBlock Stopping block number.

Returns

Type Description

[string](#)

Remarks

Flink command: R SendCommands not necessary, posted immediately.

ExportZReportByDate(bool, DateTime, DateTime)

Prints or returns z-report (depending on country and implementation).

Declaration

```
string ExportZReportByDate(bool detailed, DateTime fromDate, DateTime tillDate)
```

Parameters

Type	Name	Description
------	------	-------------

[bool](#) detailed True if detailed report should be generated; otherwise summarized report will be printed.

[DateTime](#) fromDate Start date for report.

[DateTime](#) tillDate End date for report.

Returns

Type Description

[string](#)

Remarks

Flink command: R SendCommands not necessary, posted immediately.

GenerateClosingOrCancelReceipt()

Generates a daily financial report or cancels a fiscal receipt

Declaration

string GenerateClosingOrCancelReceipt()

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: Z Generates a daily financial report without clear.

Cancels an entire fiscal receipt. The cancel command is performed if

- there is an open fiscal receipt
- there was no % - / % + on subtotal
- payment has not started

#### ItemDelete(string)

Deletes an article (or all).

#### Declaration

```
string ItemDelete(string code)
```

#### Parameters

#### Type Name

#### Description

[string](#) code Is the code of an article to be deleted. It can be the same as its PLU. The code is used by the user application and the PLU is used by the cash register and the connection between them is made by F-Link. Instead of Code, this parameter can be ALL, which means delete all articles.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: O O,[logical number],\_\_\_\_,;[Code | ALL];[End Code];

ECR will not carry out this command if

- There are sales after the last Z-Report for this article (in this case only the price can be changed).

#### ItemSale(string, string, decimal, decimal, int?, int?, int?, string, int?, decimal?, string)

Sale of an article

#### Declaration

```
string ItemSale(string code, string name, decimal price, decimal quantity, int? stand = null, int? articleGroup = null, int? taxGroup = null, string barcode = null, int? discount)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	code	Is the code of the article. It can be the same as its PLU. The code is used by the user application and the PLU is used by the cash register and the connection between them is made by F-Link. If F-Link is set up to sell by PLU and the article is not programmed or its price is different, F-Link first tries to program the article (or change the price) and then to sell it.
<a href="#">string</a>	name	Is the name of the article (up to 22 symbols for ECR and up to 23 for FP)
<a href="#">decimal</a>	price	Is the price of a single article (0 -> 999999.99)
<a href="#">decimal</a>	quantity	Is the quantity sold (0 -> 999999.999)
<a href="#">int?</a>	stand	Optional. Is the stand number (1 -> 9)
<a href="#">int?</a>	articleGroup	Optional. Is the number of the article group (a number 1 -> 99)
<a href="#">int?</a>	taxGroup	Optional. Is the tax group of the article (1 -> 9)
<a href="#">string</a>	barcode	Optional. Is the barcode of the article (EAN8, EAN13 or other). It can be empty if the article has no barcode or if the cash register does not support barcodes
<a href="#">int?</a>	discountPercent	Optional. Is discount or surcharge in percents (0 -> 99). Negative value is surcharge.
<a href="#">decimal?</a>	discountAmount	Optional. Is discount or surcharge in absolute value. Negative value is surcharge.
<a href="#">string</a>	quantityUnitId	Optional. Id of quantity unit for this position (mandatory in romania).

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: S S,[logical number],\_\_\_\_,;[name];[price];[quantity];[stand];[article group];[tax group];[Barcode];[Code];[discount percent]; [discount amount];

[discount percent] and [discount amount] cannot be used simultaneously in one command. The cash register will not carry out this command if

- the maximum number of sales(99) within a single receipt is already reached;
  - the sum by any of the tax groups is negative;
- the sum of discounts and surcharges within the receipt is negative;

## Exceptions

Type	Condition
------	-----------

[ArgumentOutOfRangeException](#) Thrown if parameter `stand` is not in the range from 1 to 9.

### OfficialCashInCashOut(decimal, string)

Official cash in and cash out of sums

#### Declaration

```
string OfficialCashInCashOut(decimal value, string remark)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">decimal</a>	value	
-------------------------	-------	--

<a href="#">string</a>	remark	
------------------------	--------	--

#### Returns

#### Type Description

<a href="#">string</a>	
------------------------	--

#### Remarks

Flink command: I I,[logical number],\_\_,;[Type];[Sum];[Remark];;

The parameter "Remark" is not mandatory

- Type: "0" money in, "1" money out
- Sum: Amount

### OpenDrawer()

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
void OpenDrawer()
```

### OpenOfficialReceipt(string, string, string, string, string)

Opening of official receipt.

#### Declaration

```
string OpenOfficialReceipt(string line1 = "", string line2 = "", string line3 = "", string line4 = "", string line5 = "")
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	line1	To be printed line 1.
------------------------	-------	-----------------------

<a href="#">string</a>	line2	To be printed line 2.
------------------------	-------	-----------------------

<a href="#">string</a>	line3	To be printed line 3.
------------------------	-------	-----------------------

<a href="#">string</a>	line4	To be printed line 4.
------------------------	-------	-----------------------

<a href="#">string</a>	line5	To be printed line 5.
------------------------	-------	-----------------------

#### Returns

#### Type Description

<a href="#">string</a>	
------------------------	--

#### Remarks

Flink command: Y Y,[logical number],\_\_,;[line 1]; [line 2];[line 3];[line 4];[line 5];

### OpenReturnReceipt(int?)

Opens a return receipt.

#### Declaration

```
string OpenReturnReceipt(int? refNumber = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int?</a>	refNumber	Is the number of receipt which is the base (reason) for printing a return receipt.
----------------------	-----------	--

#### Returns

#### Type Description

<a href="#">string</a>	
------------------------	--

#### Remarks

Flink command: K K,[logical number],\_\_,;[Ref Number];

NOTE: This parameter is optional in Macedonia and obligatory in Serbian Republic – Bosnia and Herzegovina. NOTE: This command is supported (allowed) in a few countries only (like Macedonia, Bulgaria and Serbian Republic – Bosnia and Herzegovina). NOTE: You have to send detailed information in Bulgaria with M command for returns.

### PrintBarcode(BarcodeType, string)

Prints a bar code.

#### Declaration

```
string PrintBarcode(BarcodeType type, string barcode)
```

#### Parameters

Type	Name	Description
<a href="#">BarcodeType</a>	type	The type of the bar code (ean8, ean13, code128).
<a href="#">string</a>	barcode	The barcode without check digit.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: V V,[logical number],\_\_.,;,[54][Type],[data]

type: '1' - EAN8, '2' - EAN13 '3' - Code 128.

### PrintText(string, string, string, string, string)

Print Text (up to 5 lines).

#### Declaration

```
string PrintText(string line1, string line2 = null, string line3 = null, string line4 = null, string line5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	line1	Prints a line to the printer. If an empty line should be printed line should contain spaces.
<a href="#">string</a>	line2	Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.
<a href="#">string</a>	line3	Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.
<a href="#">string</a>	line4	Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.
<a href="#">string</a>	line5	Optional. Prints a line to the printer. If an empty line should be printed line should contain spaces.

#### Returns

#### Type Description

[string](#)

#### Remarks

Flink command: P P,[logical number],\_\_.,;:[line 1];[line 2];[line 3];[line 4];[line 5]

If the line is empty, it is not printed out. If it contains only spaces, it will be printed as an empty line. MP-5xx prints out only the first line. The maximum number of symbols per line depends on the actual cash register.

### ReturnReceiptDetails(DateTime, int, string, string, int, string)

Adds additional information to a return receipt.

#### Declaration

```
string ReturnReceiptDetails(DateTime refBookDate, int refFiscalDocumentNumber, string refDocumentNumber, string refDocumentNumberSeries, int reason, string reasonText)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	refBookDate	The book date of the referenced document.
<a href="#">int</a>	refFiscalDocumentNumber	The fiscal document number of the referenced document.
<a href="#">string</a>	refDocumentNumber	The document number of the fiscal document. Please refer to country documentation for this value.
<a href="#">string</a>	refDocumentNumberSeries	The series for the document numbers. Please refer to country documentation for this value.
<a href="#">int</a>	reason	The reason for the return (type as integer).
<a href="#">string</a>	reasonText	The reason text for the return.

#### Returns

#### Type Description

[string](#)

### SendCommands(Guid?)

Sends all commands at once to the flink interface (if [SendDocumentAtOnce](#) is set to true).

#### Declaration

```
string SendCommands(Guid? documentGuid = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid?</a>	documentGuid	The guid of the corresponding document. Optional.
-----------------------	--------------	---

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The return for all of this commands.
------------------------	--------------------------------------

### Synchronize Time()

Synchronizes time command.

#### Declaration

```
string SynchronizeTime()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	Answer of the printer if command is sent immediately to the printer.
------------------------	--

#### Remarks

Flink command: L

No additional parameters.

### TotalOrPayment(int, decimal)

End of receipt and payment.

#### Declaration

```
string TotalOrPayment(int code, decimal sum)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	code	Is the payment code: 0, 1, 2, 3, or 4; numbers from 0 to 3 correspond to payment in cash, on credit, check and credit card payment; subtotal is calculated with 4; Payment type "1" (On credit) is not supported in Serbia!
---------------------	------	---

<a href="#">decimal</a>	sum	Is the sum to be paid.
-------------------------	-----	------------------------

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

#### Remarks

Flink command: T Command T has two forms - End of receipt and Payment: T,[logical number],,,,; *Payment in cash is made for the whole sum, together with closure of the fiscal receipt. With MP-5xx this command also closes an official receipt. T,[logical number],,,,,[code],[sum];;* Payment is made with the indicated sum and payment type, and if the paid sum is larger than the sum due for payment, the receipt is closed. Unless this happens, what can be executed are only this command and the print text command. When a discount/surcharge must be made on the sum accumulated to the moment (subtotal), the command is sent for with code 4.

# Class IntegratedFlinkInterface

NuGet Implementation of flink fiscal middleware interface.

## Inheritance

[object](#)

IntegratedFlinkInterface

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class IntegratedFlinkInterface
```

## Class TrustedFiscalModuleFlink<TClientConfiguration, TRequiredAttribute, TCountryProperties>

Abstract base class for all countries depending on flink interface.

### Inheritance

[object](#)

[LoggingBase](#)

[TrustedFiscalModuleBase](#)

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)

[TrustedFiscalModuleFlink<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)

[TrustedFiscalModuleBulgaria](#)

[TrustedFiscalModulePoland](#)

[TrustedFiscalModuleRomania](#)

### Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

### Inherited Members

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudApiKey](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudApiSecret](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ClientConfiguration](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CertificateStore](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudArchiveEnabled\(TClientConfiguration\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetSignatureInterface\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetOrganizationSignatureVerifyInterface\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetExternalCertificateSignatureInterface\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetExternalCertificate\(string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudMessagesQueued](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudMessagesStoragePeriod](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetCountryUnspecificFiscalClientStatus\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreConfiguration\(TClientConfiguration\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetTerminalSignatureCertificateFilename\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetOrganizationSignatureCertificateFilename\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateDocumentImplementation\(Document, bool\)](#)  
[TrustedFiscalModuleBase.Client](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.FiscalModuleEnvironment](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[LoggingBase.Logger](#)  
[LoggingBase.LogSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Flink](#)

## Syntax

```
public abstract class TrustedFiscalModuleFlink<TClientConfiguration, TRequiredAttribute, TCountryProperties> : TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>
```

## Type Parameters

Name	Description
TClientConfiguration	
TRequiredAttribute	
TCountryProperties	

## Constructors

**TrustedFiscalModuleFlink(FiscalClient, ILogger, string, Action<IFiscalImplementationConfiguration>, bool, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
protected TrustedFiscalModuleFlink(FiscalClient client, ILogger logger, string logSource, Action<IFiscalImplementationConfiguration> storeConfiguration, bool sendDocumentAtOnce, IFiscalDataStorageProvider storageProvider, CloudService cloudService, string apiKey, string apiSecret)
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">string</a>	logSource	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">bool</a>	sendDocumentAtOnce	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

### FlinkInterface

#### Declaration

```
protected HttpFlinkInterface FlinkInterface
```

#### Field Value

Type	Description
<a href="#">HttpFlinkInterface</a>	

## Properties

### SimplifiedInvoiceBusinessTaxNumberCaption

Business tax number caption on simplified invoice.

#### Declaration

```
protected abstract string SimplifiedInvoiceBusinessTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

### SimplifiedInvoiceCaption

Set this caption to enable simplified invoice in the country.

#### Declaration

```
protected abstract string SimplifiedInvoiceCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

### SimplifiedInvoiceNetAmountCaption

Net amount caption in vat overview of simplified invoice.

#### Declaration

```
protected abstract string SimplifiedInvoiceNetAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

### SimplifiedInvoiceOriginalText

Text to print "original" at the receipt at simplified invoice.

#### Declaration

```
protected abstract string SimplifiedInvoiceOriginalText { get; }
```

#### Property Value

#### Type Description



#### Type Description

[string](#)

#### SimplifiedInvoiceReferenceCaption

Invoice document reference caption.

#### Declaration

```
protected abstract string SimplifiedInvoiceReferenceCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceTaxNumberCaption

Set the caption if you want to print taxnumber on receipt in the country.

#### Declaration

```
protected abstract string SimplifiedInvoiceTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceTaxSymbol

Tax symbol on simplified invoice.

#### Declaration

```
protected abstract string SimplifiedInvoiceTaxSymbol { get; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedInvoiceVatAmountCaption

Vat amount caption in vat overview of simplified invoice.

#### Declaration

```
protected abstract string SimplifiedInvoiceVatAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### SimplifiedReturnCaption

Set this caption to set return caption of simplified invoice.

#### Declaration

```
protected abstract string SimplifiedReturnCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Methods

#### CancelDocument(Document)

Cancels a document on the fiscal interface.

#### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CancelDocument\(Document\)](#)

#### CloudArchiveEnabled(TClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

#### Declaration

```
protected override bool CloudArchiveEnabled(TClientConfiguration clientConfiguration)
```

#### Parameters

Type	Name	Description
TClientConfiguration	clientConfiguration	

#### Returns

##### Type Description

[bool](#)

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudArchiveEnabled\(TClientConfiguration\)](#)

#### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DecommissionClient\(Document\)](#)

#### DisplayText(string, string)

Displays a text on a customer display (only if attached and fiscal customer display)

#### Declaration

```
public override void DisplayText(string line1, string line2)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	line1	The first line to display.
<a href="#">string</a>	line2	The second line to display.

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DisplayText\(string, string\)](#)

#### ExportKlen(uint, uint)

Returns klen export (depending on country and implementation).

#### Declaration

```
public string ExportKlen(uint zReportNumberFrom, uint zReportNumberTo)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	zReportNumberFrom	Starting z-report number.
<a href="#">uint</a>	zReportNumberTo	Stopping z-report number.

#### Returns

##### Type Description

[string](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if zReportNumberTo is smaller than zReportNumberFrom.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if zReportNumberFrom is smaller than 1.
<a href="#">NotSupportedException</a>	Thrown if method is called and client is poland fiscal country.

#### ExportZReportByBlock(uint, uint)

Prints or returns block report (depending on country and implementation).

#### Declaration

```
public string ExportZReportByBlock(uint fromBlock, uint toBlock)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	fromBlock	Starting block number.
<a href="#">uint</a>	toBlock	Stopping block number.

#### Returns

##### Type Description

[string](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if toBlock is smaller than fromBlock.

#### ExportZReportByDate(bool, DateTime, DateTime)

Prints or returns z-report (depending on country and implementation).

#### Declaration

```
public string ExportZReportByDate(bool detailed, DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	detailed	True if detailed report should be generated; otherwise summarized report will be printed.
<a href="#">DateTime</a>	fromDate	Start date for report.
<a href="#">DateTime</a>	tillDate	End date for report.

#### Returns

##### Type Description

[string](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if tillDate is smaller than fromDate.

#### GetCountrySpecificEmptyFiscalResponse()

Returns an empty country specific [FiscalResponse](#).

#### Declaration

```
protected abstract FiscalResponse GetCountrySpecificEmptyFiscalResponse()
```

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	An object of type <a href="#">FiscalResponse</a> representing an empty country specific <a href="#">FiscalResponse</a> .

**GetCountrySpecificFiscalResponse(string, List<DocumentTaxPosition>, string)**

Returns the country specific [FiscalResponse](#) for the given parameters.

**Declaration**

```
protected abstract FiscalResponse GetCountrySpecificFiscalResponse(string signature, List<DocumentTaxPosition> taxPositions, string userMessage = "")
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	signature	The return value of the printer if everything goes well.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	The tax positions of the document.
<a href="#">string</a>	userMessage	The error message of the printer.

**Returns**

Type	Description
<a href="#">FiscalResponse</a>	The country specific <a href="#">FiscalResponse</a> for the given parameters.

**GetFlinkPaymentType(PaymentType)**

Returns the flink payment type for the given payment type.

**Declaration**

```
protected abstract int GetFlinkPaymentType(PaymentType paymentType)
```

**Parameters**

Type	Name	Description
<a href="#">PaymentType</a>	paymentType	The <a href="#">PaymentType</a> to map.

**Returns**

Type	Description
<a href="#">int</a>	The flink payment type for the given payment type.

**Remarks**

The [PaymentType](#) must be supported.

**GetUniqueCashRegisterId()**

Returns the unique cash register id (storenumber/terminalnumber).

**Declaration**

```
public override string GetUniqueCashRegisterId()
```

**Returns**

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

**Overrides**

```
TrustedFiscalModuleImplementationBase<IClientConfiguration, TRequiredAttribute, TCountryProperties>.GetUniqueCashRegisterId\(\)
```

**MigrateClient(string, string, string, string, string, string)**

Migrates a client from different fiscal system.

**Declaration**

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

**MigrateClientFile(string, string, string, string, string, string)**

Migrates a client from different fiscal system with file import.

Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

**OpenDrawer(User)**

Opens a drawer if drawer is attached to fiscal printer.

Declaration

```
public override void OpenDrawer(User user)
```

Parameters

Type	Name	Description
<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).

Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.OpenDrawer\(User\)](#)

**OpenReturnReceipt(Document)**

This method is called by [StoreDocument\(Document\)](#) when a return receipt has to be opened.

Declaration

```
protected virtual void OpenReturnReceipt(Document document)
```

Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

[Document](#) document The document with the return values.

#### Remarks

At the moment this method is only used in Bulgaria.

#### SendClosing()

Sends closing command to the printer and returns the printer answer.

#### Declaration

```
public string SendClosing()
```

#### Returns

Type	Description
------	-------------

[string](#) The answer of the printer.

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) document The document to store.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<IClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### Synchronize Time()

Sends time synchronize command to flink.

#### Declaration

```
public string SynchronizeTime()
```

#### Returns

Type	Description
------	-------------

[string](#) The answer of the printer.

#### ValidateDocumentCountry(Document, bool)

Internal call for country document validation. Flink document validation is done before.

#### Declaration

```
protected abstract List<DocumentValidationError> ValidateDocumentCountry(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) document The document to validate.

[bool](#) reprintDocument True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
------	-------------

[List<DocumentValidationError>](#)

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override sealed List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) document

Type	Name	Description
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModullImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.France

## Classes

### [ClientConfiguration](#)

The france country specific client configuration.

### [FiscalResponseFrance](#)

### [FranceFiscalProperties](#)

Properties for france.

### [FranceFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for france fiscalisation.

### [FranceValidation](#)

### [SignatureTrail](#)

Storage file for signatures (and their signed data).

### [TrustedFiscalModuleFrance](#)

Fiscal module implementation for france.

### [TrustedFiscalModuleFrance.DocumentReprint](#)



# Class ClientConfiguration

The france country specific client configuration.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CertificateNumber

The 4 digit number which is provided to ta after certification process.

#### Declaration

```
public string CertificateNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Remarks

This number is mandatory for certification and without this number the client cannot be initialized.

### CertifiedVersions

The certificate version (version of sw which was certified).

## Declaration

```
public string CertifiedVersions { get; set; }
```

## Property Value

### Type Description

[string](#)

## Remarks

This version combines application version, fiscal module version, fiscal country module version:

- ApplicationVersion: 6.0.12121.2122
- FiscalModuleVersion: 1.5.2.2
- FiscalCountryVersion for France: 1.0.5 => Certified version (6-1-1) (always only major versions)

Attention: This version is validated when storing documents and will raise a validation exception if not set properly.

## CloudArchive

True if cloud archive is active; otherwise false.

## Declaration

```
public bool CloudArchive { get; set; }
```

## Property Value

### Type Description

[bool](#)

## FiscalCountry

The fiscal country of the client configuration.

## Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
------	-------------

[FiscalCountry](#)

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

## Declaration

```
public void Encrypt(Guid uniqueClientId)
```

## Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

### RemoveSensitiveData()

Removes sensitive data from the configuration.

### Declaration

```
public void RemoveSensitiveData()
```

### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

### Implements

[IFiscalImplementationConfiguration](#)

# Class FiscalResponseFrance

## Inheritance

[object](#)

FiscalResponseFrance

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalResponseFrance
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
------	------	-------------

[ReadOnlyDictionary<string, object>](#) additionalFields The dictionary of all country specific fields.

#### Exceptions

Type	Condition
------	-----------

[MissingMemberException](#) Thrown if a country specific field is missing.

### DocumentNumber(FiscalResponse)

The document number of the fiscal response (if document was signed).

#### Declaration

```
public static string DocumentNumber(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

[FiscalResponse](#) fiscalResponse The fiscal response holding the value.

#### Returns

Type	Description
------	-------------

[string](#) The document number of the fiscal response (if document was signed).

### FiscalMark(FiscalResponse)

The fiscal mark of the fiscal response.

#### Declaration

```
public static string FiscalMark(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

[FiscalResponse](#) fiscalResponse The fiscal response holding the value.

#### Returns

Type	Description
------	-------------

[string](#) The fiscal mark of the fiscal response.

### GetFiscalResponseFrance(int, List<DocumentTaxPosition>, long, string, string, string, string, string, int, string, string, string)

#### Declaration

```
public static FiscalResponse GetFiscalResponseFrance(int fiscalDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, string cash)
```

#### Parameters

Type	Name	Description
------	------	-------------

[int](#) fiscalDocumentNumber

Type	Name	Description
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	
<a href="#">string</a>	signature	
<a href="#">string</a>	cashRegisterId	
<a href="#">string</a>	printMessage	
<a href="#">string</a>	errorDescription	
<a href="#">string</a>	fiscalMark	The fiscal mark of the fiscal response.
<a href="#">string</a>	siret	The siret (siren + nic (store identification number)).
<a href="#">int</a>	reprintCount	The reprint count of this response (if document was signed).
<a href="#">string</a>	documentNumber	The document number of the fiscal response (if document was signed).
<a href="#">string</a>	signedData	The data which was signed and for which the signature was created.
<a href="#">string</a>	userMessage	The user message

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The <a href="#">FiscalResponse</a> for France.

#### ReprintCount(FiscalResponse)

The reprint count of this response (if document was signed).

#### Declaration

```
public static int ReprintCount(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	The fiscal response holding the value.

#### Returns

Type	Description
<a href="#">int</a>	The reprint count of this response (if document was signed).

#### SignedData(FiscalResponse)

The data which was signed and for which the signature was created.

#### Declaration

```
public static string SignedData(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	The fiscal response holding the value.

#### Returns

Type	Description
<a href="#">string</a>	The fiscal response holding the value.

#### Siret(FiscalResponse)

The siret (siren + nic (store identification number)).

#### Declaration

```
public static string Siret(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	The fiscal response holding the value.

#### Returns

Type	Description
<a href="#">string</a>	The siret (siren + nic (store identification number)).

# Class FranceFiscalProperties

Properties for france.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>](#)

FranceFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FranceFiscalProperties : FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

## Type Description

[Version](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

Property Value

## Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

Property Value

## Type Description

[FiscalCountry](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

## Type Description

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

Declaration

```
public override bool FiscalLineInterface { get; }
```

Property Value

## Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.FiscalLineInterface](#)

### **GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

#### **Declaration**

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### **Property Value**

#### **Type Description**

[string](#)

#### **Overrides**

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### **Remarks**

Return empty string if there is not cloud

### **MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### **Declaration**

```
public override int MaximumHourIntervalForClosing { get; }
```

#### **Property Value**

#### **Type Description**

[int](#)

#### **Overrides**

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### **Remarks**

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

### **MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### **Declaration**

```
public override bool MustRecordDocumentReprint { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

#### **Overrides**

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

### **MustSendClosingPerDay**

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### **Declaration**

```
public override bool MustSendClosingPerDay { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)



## Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

## Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

### Type Description

[Vat](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.TaxFreeVat](#)

### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

Declaration

```
public override bool TrainingModeAllowed { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class FranceFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for france fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
FranceFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.France](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class FranceFiscalisationRequiredAttribute : RequiredAttribute
```

# Class FranceValidation

## Inheritance

[object](#)

FranceValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FranceValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

# Class SignatureTrail

Storage file for signatures (and their signed data).

## Inheritance

[object](#)

[DataStorage<StringStorageRecord>](#)

SignatureTrail

## Inherited Members

[DataStorage<StringStorageRecord>.EnsureRecordDateTimeAscending](#)

[DataStorage<StringStorageRecord>.Push\(StringStorageRecord\)](#)

[DataStorage<StringStorageRecord>.FetchLast\(int\)](#)

[DataStorage<StringStorageRecord>.FetchFirst\(\)](#)

[DataStorage<StringStorageRecord>.FetchByDate\(DateTime, DateTime\)](#)

[DataStorage<StringStorageRecord>.FetchAllAfter\(DateTime\)](#)

[DataStorage<StringStorageRecord>.ValidateRecord\(StringStorageRecord, out string\)](#)

[DataStorage<StringStorageRecord>.GetWriteStream\(\)](#)

[DataStorage<StringStorageRecord>.GetReadStream\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SignatureTrail : DataStorage<StringStorageRecord>
```

## Constructors

### SignatureTrail(IStreamProvider)

Constructor.

### Declaration

```
public SignatureTrail(IStreamProvider streamProvider)
```

### Parameters

Type	Name	Description
<a href="#">IStreamProvider</a>	streamProvider	The stream provider to access the data (read/write streams).

## Properties

### AlgorithmMandatory

True if the stored record has to have an algorithm section; otherwise false.

### Declaration

```
public override bool AlgorithmMandatory { get; }
```

### Property Value



## Type Description

[bool](#)

### Overrides

[DataStorage<StringStorageRecord>.AlgorithmMandatory](#)

## SignatureMandatory

True if the stored record has to have a signature section; otherwise false.

### Declaration

```
public override bool SignatureMandatory { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[DataStorage<StringStorageRecord>.SignatureMandatory](#)

## UrlEncode

True if the data in the storage file is base64 url encoded (true); otherwise it is base64 encoded (false).

### Declaration

```
public override bool UrlEncode { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[DataStorage<StringStorageRecord>.UrlEncode](#)

## Class TrustedFiscalModuleFrance

Fiscal module implementation for france.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>](#)  
[TrustedFiscalModuleFrance](#)

### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

### Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public sealed class TrustedFiscalModuleFrance : TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>, IFiscalM
```

### Constructors

**TrustedFiscalModuleFrance(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

### Declaration

```
public TrustedFiscalModuleFrance(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, Cl
```

### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

### Fields

## PRELIMINARYRECEIPT\_PRINTMESSAGE

### Declaration

```
public const string PRELIMINARYRECEIPT_PRINTMESSAGE = "DOCUMENT PROVISOIRE"
```

### Field Value

### Type Description

[string](#)

### Properties

#### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.FiscalClientStatus](#)

### Methods

#### AddAuditLog(AuditLogEntry)

Method to add audit log to the country specific system.

### Declaration

```
public override FiscalResponse AddAuditLog(AuditLogEntry auditLogEntry)
```

### Parameters

Type	Name	Description
<a href="#">AuditLogEntry</a>	auditLogEntry	The audit log entry to store.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	FiscalResponse of the respective country or null if not necessary (depends on the country implementation).

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter auditLogEntry is set to null.

#### CancelDocument(Document)

Cancel a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CancelDocument\(Document\)](#)

#### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

Returns

**Type Description**

[bool](#)

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

**CreateDocument(DocumentType)**

Creates a document at the fiscal interface and returns appropriate data.

Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

Parameters

Type	Name	Description
------	------	-------------

[DocumentType](#) documentType The type of the document for which the document should be created.

Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.CreateDocument\(DocumentType\)](#)

Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

**DecommissionClient(Document)**

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

Parameters

Type	Name	Description
------	------	-------------

[Document](#) endDocument A document of type [NullReceipt](#) representing the end document of the fiscalisation.

Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.DecommissionClient\(Document\)](#)

**GetEventLog(DateTime, DateTime)**

Returns all audit log entries requested by date.

Declaration

```
public List<JetEntry> GetEventLog(DateTime fromDate, DateTime tillDate)
```

Parameters

Type	Name	Description
------	------	-------------

[DateTime](#) fromDate Date from the logs are requested (including time).

[DateTime](#) tillDate Date till the logs are requested (including time).

Returns

Type	Description
------	-------------

[List<JetEntry>](#) A list of jet entries representing audit trail and technical journal log entries.

**GetFrenchArchives(DateTime, DateTime)**

Returns the local stored archives for closing.

Declaration

```
public IEnumerable<FrenchArchive> GetFrenchArchives(DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	fromDate	The start date to query for the french archives.
<a href="#">DateTime</a>	tillDate	The end date to query for the french archives.

#### Returns

Type	Description
<a href="#">IEnumerable&lt;FrenchArchive&gt;</a>	The local stored archives for closing.

#### Remarks

CAUTION: This method only returns an archive which was signed with 1024 bit key. According to regulations this archive file is only secured until upload to cloud storage with this signature. In cloud storage the signature will be replaced by 2048 bit key signature according to french regulations.

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

[NotSupportedException](#) Thrown if the given service url is not supported for migration.

### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) `importFile` The file to import for migration.

[string](#) `param1` Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) `param2` Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) `param3` Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) `param4` Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) `param5` Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

[InvalidDataException](#) Thrown if the client is not in state [NotInitialized](#).

[InvalidDataException](#) Thrown if the import file is empty or cannot be read.

[FileNotFoundException](#) Thrown if the given file is not found.

### ReprintDocument(Document, string)

Stores a document reprint to the fiscal interface.

#### Declaration

```
public override FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) `document` The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.

[string](#) `reason` The reason for the duplicate. Optional for normal [Receipt](#). Mandatory for [LongTermOrder](#).

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.ReprintDocument\(Document, string\)](#)

#### Remarks

Not necessary in all countries. See [MustRecordDocumentReprint](#) if it must be sent. If not necessary or if fiscal system is not responding with [FiscalResponse](#) null is returned.

#### Exceptions

Type	Condition
<a href="#">ValidationException</a>	Thrown if property <code>User</code> of parameter <code>document</code> is set to null.

[InvalidOperationException](#) Thrown if document which should be reprinted is not from this client.

## StoreDocument(Document)

Stores a document to the fiscal interface.

### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.StoreDocument\(Document\)](#)

### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

## ValidateDocumentImplementation(Document, bool)

### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

## VerifyFiscalArchive(FrenchArchive, ISignatureInterface, ISignatureVerifyInterface, string)

Static method to verify the french archive.

### Declaration

```
public static List<ValidationError> VerifyFiscalArchive(FrenchArchive frenchArchive, ISignatureInterface terminalSignatureInterface, ISignatureVerifyInterface organizationSignatureInterface, string previousArchiveSignature)
```

### Parameters

Type	Name	Description
<a href="#">FrenchArchive</a>	frenchArchive	The french archive to verify.
<a href="#">ISignatureInterface</a>	terminalSignatureInterface	The signature interface to validate the signatures.
<a href="#">ISignatureVerifyInterface</a>	organizationSignatureVerifyInterface	The signature interface of the organization having the public key to verify the signature.
<a href="#">string</a>	previousArchiveSignature	A previous signature of a previous archive. Optional. If omitted it will not be verified.

### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	A list of errors and warnings from the verification process.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>frenchArchive</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>terminalSignatureInterface</code> is set to null.

## VerifyFiscalArchive(FrenchArchive, string)

Method to verify the french archive.

### Declaration

```
public List<ValidationError> VerifyFiscalArchive(FrenchArchive frenchArchive, string previousArchiveSignature = null)
```

### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">FrenchArchive</a>	frenchArchive	The french archive to verify.
<a href="#">string</a>	previousArchiveSignature	A previous signature of a previous archive. Optional. If omitted it will not be verified.

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	A list of errors and warnings from the verification process.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>frenchArchive</code> is set to null.

#### Implements

[IFiscalModullImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)



# Class TrustedFiscalModuleFrance.DocumentReprint

## Inheritance

[object](#)

TrustedFiscalModuleFrance.DocumentReprint

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TrustedFiscalModuleFrance.DocumentReprint
```

## Properties

### DocumentId

#### Declaration

```
public string DocumentId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Id

#### Declaration

```
public int Id { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### ReprintCount

#### Declaration

```
public int ReprintCount { get; set; }
```

#### Property Value

#### Type Description

[int](#)

# Namespace RetailForce.Fiscalisation.Implementation.France.Archive

## Classes

### [FrenchArchive](#)

Structure class for french tax archive export.

### [GrandTotal](#)

## Enums

### [GrandTotalType](#)

The type of the grand total.

# Class FrenchArchive

Structure class for french tax archive export.

## Inheritance

[object](#)

FrenchArchive

## Implements

[IJsonSigned](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France.Archive](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FrenchArchive : IJsonSigned
```

## Properties

### ApplicationVersion

The version of the software.

#### Declaration

```
public string ApplicationVersion { get; set; }
```

#### Property Value

### Type Description

[string](#)

### ArchiveDateTime

The date/time of the current fiscal archive.

#### Declaration

```
public DateTime ArchiveDateTime { get; set; }
```

#### Property Value

### Type Description

[DateTime](#)

### AuditTrail

The audit trail (non purgable, signed) of this archive.

#### Declaration

```
public List<JetEntry> AuditTrail { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;JetEntry&gt;</a>	

#### CertifiedVersion

The version which was certified according to NF525.

#### Declaration

```
public string CertifiedVersion { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Remarks

This version combines application version, fiscal module version, fiscal country module version:

- ApplicationVersion: 6.0.12121.2122
- FiscalModuleVersion: 1.5.2.2
- FiscalCountryVersion for France: 1.0.5 => Certified version (6-1-1) (always only major versions)

#### Documents

All documents included in this archive.

#### Declaration

```
public List<StoredDocument> Documents { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;StoredDocument&gt;</a>	

#### FiscalClient

The fiscal client (meta data) generated to export this archive.

#### Declaration

```
public FiscalClient FiscalClient { get; set; }
```

#### Property Value

Type	Description
<a href="#">FiscalClient</a>	

#### FiscalCountryModuleVersion

The version of the france country module.

#### Declaration

```
public string FiscalCountryModuleVersion { get; set; }
```

#### Property Value

## Type Description

[string](#)

## FiscalModuleName

The name of the fiscal module ("RetailForce FiscalClient").

### Declaration

```
public string FiscalModuleName { get; set; }
```

### Property Value

## Type Description

[string](#)

## FiscalModuleVersion

The version of the fiscal module.

### Declaration

```
public string FiscalModuleVersion { get; set; }
```

### Property Value

## Type Description

[string](#)

## GrandTotals

Holds a list of grand totals for this archive.

### Declaration

```
public List<GrandTotal> GrandTotals { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;GrandTotal&gt;</a>	

## LastArchiveDateTime

The date/time of the last fiscal archive.

### Declaration

```
public DateTime? LastArchiveDateTime { get; set; }
```

### Property Value

Type	Description
<a href="#">DateTime?</a>	

## PreviousSignature

If applicable the previous signature of the previous generated archive.

### Declaration

```
public string PreviousSignature { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **PreviousSignature1024**

If applicable the previous signature (1024 bit) of the previous generated archive.

### **Declaration**

```
[JsonProperty("previousSignature1024", NullValueHandling = NullValueHandling.Ignore)]  
public string PreviousSignature1024 { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **ReprintInvoiceSignatures**

The signatures (and signature data) for all reprints of invoices.

### **Declaration**

```
public List<StringStorageRecord> ReprintInvoiceSignatures { get; set; }
```

**Property Value**

Type	Description
------	-------------

[List<StringStorageRecord>](#)

### **ReprintPreliminaryReceiptSignatures**

The signatures (and signature data) for all reprints of preliminary receipt.

### **Declaration**

```
public List<StringStorageRecord> ReprintPreliminaryReceiptSignatures { get; set; }
```

**Property Value**

Type	Description
------	-------------

[List<StringStorageRecord>](#)

### **ReprintReceiptSignatures**

The signatures (and signature data) for all reprints of receipts.

### **Declaration**

```
public List<StringStorageRecord> ReprintReceiptSignatures { get; set; }
```

**Property Value**

Type	Description
------	-------------

[List<StringStorageRecord>](#)

### **Signature**

The signature of the archive.

### **Declaration**

```
[JsonProperty("signature", NullValueHandling = NullValueHandling.Ignore)]
public string Signature { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Signature1024

The signature of the archive (1024 bit).

#### Declaration

```
[JsonProperty("signature1024", NullValueHandling = NullValueHandling.Ignore)]
public string Signature1024 { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SignatureChaining

Indicator if this archive signature is chained with previous signature ("Y"); Otherwise "F".

#### Declaration

```
public char SignatureChaining { get; set; }
```

#### Property Value

#### Type Description

[char](#)

#### TechTrail

The technical journal (purgable, not signed) of this archive.

#### Declaration

```
public List<JetEntry> TechTrail { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<JetEntry>](#)

#### Implements

[IJsonSigned](#)

# Class GrandTotal

## Inheritance

[object](#)

GrandTotal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France.Archive](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GrandTotal
```

## Properties

### AbsoluteGrandTotal

Perpetual Absolute Value Grand Total (GTPVA)

#### Declaration

```
public decimal AbsoluteGrandTotal { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### Remarks

Absolute Perpetual Total represents total value of all transactions but not with real values, that positive values are treated as positive - and negative values are also treated as positive.

### CumulativeAlgebraicGrandTotal

Perpetual Cumulative Algebraic Grand Total (GTPCA)

#### Declaration

```
public decimal CumulativeAlgebraicGrandTotal { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### Remarks

Cumulative Real Perpetual Total represents total value of all transactions with real values, meaning that positive values are treated as positive - and negative values are treated as negative.

### GrossGrandTotal



The gross grand total.

#### Declaration

```
public decimal GrossGrandTotal { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### Identifier

Unique identifier for this grand total

#### Declaration

```
public Guid Identifier { get; set; }
```

#### Property Value

##### Type Description

[Guid](#)

#### NetGrandTotal

The net grand total.

#### Declaration

```
public decimal NetGrandTotal { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### PeriodId

According period id for the grand total type.

#### Declaration

```
public string PeriodId { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### Remarks

Possible values are:

- Closing: {closing\_num}\_{DateTime of closing in format yyyyymmdd}
- Month: Month in format yyyyymm
- Year: Year in format yyyy

#### PreviousSignature

The signature of the preceding grand total.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string PreviousSignature { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **Signature**

Signature for the grand total.

### **Declaration**

```
public string Signature { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **SignatureData**

Signature string before hashing.

### **Declaration**

```
public string SignatureData { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **TimeStamp**

Timestamp when the grand total is created.

### **Declaration**

```
public DateTime TimeStamp { get; set; }
```

**Property Value**

### **Type Description**

[DateTime](#)

### **Type**

The type of the grand total.

### **Declaration**

```
public GrandTotalType Type { get; set; }
```

**Property Value**

### **Type Description**

[GrandTotalType](#)

### **VatRates**

The vat rates for this grand total.

**Declaration**

```
public List<DocumentTaxPosition> VatRates { get; set; }
```

**Property Value**

Type	Description
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	

# Enum GrandTotalType

The type of the grand total.

Namespace: [RetailForce.Fiscalisation.Implementation.France.Archive](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum GrandTotalType
```

## Fields

Name	Description
------	-------------

Closing	
---------	--

Month	
-------	--

Year	
------	--

# Namespace RetailForce.Fiscalisation.Implementation.France.TechnicalEventLog

## Classes

[EventLogStore](#)

[JetEntry](#)

# Class EventLogStore

## Inheritance

[object](#)  
[DataStorage<JetEntry>](#)  
EventLogStore

## Inherited Members

[DataStorage<JetEntry>.EnsureRecordDateTimeAscending](#)  
[DataStorage<JetEntry>.Push\(JetEntry\)](#)  
[DataStorage<JetEntry>.FetchLast\(int\)](#)  
[DataStorage<JetEntry>.FetchFirst\(\)](#)  
[DataStorage<JetEntry>.FetchByDate\(DateTime, DateTime\)](#)  
[DataStorage<JetEntry>.FetchAllAfter\(DateTime\)](#)  
[DataStorage<JetEntry>.ValidateRecord\(JetEntry, out string\)](#)  
[DataStorage<JetEntry>.GetWriteStream\(\)](#)  
[DataStorage<JetEntry>.GetReadStream\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France.TechnicalEventLog](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class EventLogStore : DataStorage<JetEntry>
```

## Constructors

### EventLogStore(IStreamProvider, bool)

#### Declaration

```
public EventLogStore(IStreamProvider streamProvider, bool purgable)
```

#### Parameters

Type	Name	Description
<a href="#">IStreamProvider</a>	streamProvider	
<a href="#">bool</a>	purgable	

## Properties

### AlgorithmMandatory

True if the stored record has to have an algorithm section; otherwise false.

#### Declaration

```
public override bool AlgorithmMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

## Overrides

[DataStorage<JetEntry>.AlgorithmMandatory](#)

## Purgable

### Declaration

```
public bool Purgable { get; }
```

### Property Value

### Type Description

[bool](#)

## SignatureMandatory

True if the stored record has to have a signature section; otherwise false.

### Declaration

```
public override bool SignatureMandatory { get; }
```

### Property Value

### Type Description

[bool](#)

## Overrides

[DataStorage<JetEntry>.SignatureMandatory](#)

## UrlEncode

True if the data in the storage file is base64 url encoded (true); otherwise it is base64 encoded (false).

### Declaration

```
public override bool UrlEncode { get; }
```

### Property Value

### Type Description

[bool](#)

## Overrides

[DataStorage<JetEntry>.UrlEncode](#)

# Class JetEntry

## Inheritance

[object](#)  
[StorageRecord](#)  
JetEntry

## Implements

[IEquatable<StorageRecord>](#)

## Inherited Members

[StorageRecord.Data](#)  
[StorageRecord.RecordDateTime](#)  
[StorageRecord.Signature](#)  
[StorageRecord.Algorithm\(\)](#)  
[StorageRecord.Equals\(StorageRecord\)](#)  
[StorageRecord.ResolveDataStorageRecord<TData>\(string, bool, bool, bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France.TechnicalEventLog](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JetEntry : StorageRecord, IEquatable<StorageRecord>
```

## Constructors

### JetEntry()

#### Declaration

```
public JetEntry()
```

### JetEntry(int, string, AuditLogEntry, string)

Constructor. Creates a jet entry from an [AuditLogEntry](#).

#### Declaration

```
public JetEntry(int eventId, string cashRegisterId, AuditLogEntry auditLogEntry, string previousSignature = null)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	eventId	
<a href="#">string</a>	cashRegisterId	
<a href="#">AuditLogEntry</a>	auditLogEntry	
<a href="#">string</a>	previousSignature	

### JetEntry(string)

Constructor. Gets a jet entry from string representation.

#### Declaration



```
public JetEntry(string jetEntry)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	jetEntry	The jet entry as string representation.

#### Fields

##### OPERATIONTIME\_DATETIMEFORMAT

#### Declaration

```
public const string OPERATIONTIME_DATETIMEFORMAT = "yyyyMMddHHmmss"
```

#### Field Value

#### Type Description

[string](#)

#### Properties

##### BackGroundInfo

#### Declaration

```
[JsonProperty]  
public string BackGroundInfo { get; }
```

#### Property Value

#### Type Description

[string](#)

##### CashRegisterId

#### Declaration

```
[JsonProperty]  
public string CashRegisterId { get; }
```

#### Property Value

#### Type Description

[string](#)

##### EventCode

#### Declaration

```
[JsonProperty]  
public int EventCode { get; }
```

#### Property Value

#### Type Description

[int](#)

##### EventId

#### Declaration

```
[JsonProperty]
```

```
public int EventId { get; }
```

**Property Value**

### Type Description

[int](#)

### OperationTime

**Declaration**

```
[JsonProperty]  
public DateTime OperationTime { get; }
```

**Property Value**

### Type Description

[DateTime](#)

### OperatorId

**Declaration**

```
[JsonProperty]  
public string OperatorId { get; }
```

**Property Value**

### Type Description

[string](#)

### PreviousSignature

**Declaration**

```
[JsonProperty]  
public string PreviousSignature { get; set; }
```

**Property Value**

### Type Description

[string](#)

### Purgable

**Declaration**

```
[JsonProperty]  
public bool Purgable { get; set; }
```

**Property Value**

### Type Description

[bool](#)

### SignatureChaining

**Declaration**

```
[JsonProperty]  
public char SignatureChaining { get; }
```

**Property Value**

### Type Description

## Type Description

[char](#)

## Methods

### GetData()

Method to get data property. Override in inherited class to get data in string notation.

#### Declaration

```
protected override string GetData()
```

#### Returns

## Type Description

[string](#)

#### Overrides

[StorageRecord.GetData\(\)](#)

### GetUtf8Data()

#### Declaration

```
public byte[] GetUtf8Data()
```

#### Returns

## Type Description

[byte\[\]](#)

### SetData(string)

Method to set data property. Override in inherited class to parse data if necessary.

#### Declaration

```
protected override void SetData(string data)
```

#### Parameters

## Type Name Description

[string](#) data The data to set.

#### Overrides

[StorageRecord.SetData\(string\)](#)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>data</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	---

### ToString()

Returns a string that represents the current object.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the current object.
------------------------	--

#### Overrides

[object.ToString\(\)](#)

#### Implements

[IEquatable<T>](#)

## Namespace

**RetailForce.Fiscalisation.Implementation.France.TechnicalEventLog.EventCodes**

## Classes

### [EventCodeObject](#)

Object to hold JET event codes and their definitions.

## Enums

### [EventCodeMandatoryIndicator](#)

# Enum EventCodeMandatoryIndicator

Namespace: [RetailForce.Fiscalisation.Implementation.France.TechnicalEventLog.EventCodes](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum EventCodeMandatoryIndicator
```

## Fields

Name	Description
Information	
Mandatory	
MandatoryIfAvailable	
NotUsed	
Optional	

# Class EventCodeObject

Object to hold JET event codes and their definitions.

## Inheritance

[object](#)

EventCodeObject

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.France.TechnicalEventLog.EventCodes](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class EventCodeObject
```

## Properties

### AuditLogEntryType

#### Declaration

```
public LogEntryType? AuditLogEntryType { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">LogEntryType?</a>	
-------------------------------	--

### Description

#### Declaration

```
public string Description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### EventCode

The event code according to

#### Declaration

```
public int EventCode { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### MandatoryNF203

## Declaration

```
public EventCodeMandatoryIndicator MandatoryNF203 { get; set; }
```

## Property Value

Type	Description
<a href="#">EventCodeMandatoryIndicator</a>	

## MandatoryNF525

## Declaration

```
public EventCodeMandatoryIndicator MandatoryNF525 { get; set; }
```

## Property Value

Type	Description
<a href="#">EventCodeMandatoryIndicator</a>	

## Purgeable

## Declaration

```
public bool Purgeable { get; set; }
```

## Property Value

## Type Description

[bool](#)

## Methods

### AuditLogEventCodeDictionary()

## Declaration

```
public static Dictionary<LogEntryType, EventCodeObject> AuditLogEventCodeDictionary()
```

## Returns

Type	Description
<a href="#">Dictionary&lt;LogEntryType, EventCodeObject&gt;</a>	

### EventCodes()

Returns a dictionary of configured event codes for jet (technical audit trail france).

## Declaration

```
public static Dictionary<int, EventCodeObject> EventCodes()
```

## Returns

Type	Description
<a href="#">Dictionary&lt;int, EventCodeObject&gt;</a>	A dictionary of configured event codes for jet (technical audit trail france).

### FromAuditLogEntryType(LogEntryType)

## Declaration



```
public static EventCodeObject FromAuditLogEntryType(LogEntryType logEntryType)
```

#### Parameters

Type	Name	Description
<a href="#">LogEntryType</a>	logEntryType	

#### Returns

Type	Description
<a href="#">EventCodeObject</a>	

#### FromEventCode(int)

#### Declaration

```
public static EventCodeObject FromEventCode(int eventCode)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	eventCode	

#### Returns

Type	Description
<a href="#">EventCodeObject</a>	

#### MandatoryCharConverter(EventCodeMandatoryIndicator)

#### Declaration

```
public char MandatoryCharConverter(EventCodeMandatoryIndicator indicator)
```

#### Parameters

Type	Name	Description
<a href="#">EventCodeMandatoryIndicator</a>	indicator	

#### Returns

#### Type Description

[char](#)

#### ToString()

Returns a string that represents the current object.

#### Declaration

```
public override string ToString()
```

#### Returns

#### Type Description

[string](#) A string that represents the current object.

#### Overrides

[object.ToString\(\)](#)



# Namespace RetailForce.Fiscalisation.Implementation.Germany

## Classes

### [ClientConfiguration](#)

The german country specific configuration for the client.

### [DocumentModelExtensions](#)

Adds certain functionality for document model only needed for german fiscalisation.

### [FiscalResponseGermany](#)

Fiscal response for germany fiscal implementation. Derived from [FiscalResponse](#).

### [GermanFiscalProperties](#)

German fiscalisation country properties.

### [GermanFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for german fiscalisation.

### [GermanyValidation](#)

### [TaxonomyCloudStoreConfiguration](#)

The configuration for the cloud taxonomy store (DS-FinVK).

### [TaxonomyFileStoreConfiguration](#)

The configuration for the local taxonomy store (DS-FinVK).

### [TaxonomyStoreConfiguration](#)

Base class for taxonomy store configuration

### [TrustedFiscalModuleGermany](#)

Implementation for fiscal regulations in germany.

### [TseConfiguration](#)

Configuration for a single tse unit.

### [TseDriverInfo](#)

Information about tse driver and it's configuration.

### [TseParameterJsonConverter](#)

Converts old json format (dictionary in tse parameter) to new list format.

## Interfaces

### [ITseInterface](#)

## Enums

### [TseDriver](#)

The actual implemented Tse Driver for german fiscalisation.



# Class ClientConfiguration

The german country specific configuration for the client.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### FiscalCountry

Returns the fiscal country of the client configuration. In this case: Germany.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

#### Property Value

Type	Description
------	-------------

[FiscalCountry](#)

### PrimaryTse

Primary Tse Configuration.

#### Declaration

```
public TseConfiguration PrimaryTse { get; set; }
```

## Property Value

Type	Description
<a href="#">TseConfiguration</a>	

## TaxonomyCloudStoreConfiguration

The configuration for the cloud taxonomy store (DS-FinVK).

### Declaration

```
public TaxonomyCloudStoreConfiguration TaxonomyCloudStoreConfiguration { get; set; }
```

## Property Value

Type	Description
<a href="#">TaxonomyCloudStoreConfiguration</a>	

## TaxonomyFileStoreConfiguration

The configuration for the local taxonomy store (DS-FinVK).

### Declaration

```
public TaxonomyFileStoreConfiguration TaxonomyFileStoreConfiguration { get; set; }
```

## Property Value

Type	Description
<a href="#">TaxonomyFileStoreConfiguration</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### Preserve Values(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

## Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

#### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

#### Implements

[IFiscalImplementationConfiguration](#)

# Class DocumentModelExtensions

Adds certain functionality for document model only needed for german fiscalisation.

## Inheritance

[object](#)

DocumentModelExtensions

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class DocumentModelExtensions
```

## Methods

### GetBaseGrossValue(IBusinessTransactionTypePosition)

Returns the base gross value of the position. If the position has no base gross value -> gross value is returned instead.

#### Declaration

```
public static decimal GetBaseGrossValue(this IBusinessTransactionTypePosition position)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">IBusinessTransactionTypePosition</a>	position	The position to evaluate.
--	----------	---------------------------

#### Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The base gross value of this position.
-------------------------	--

### GetBaseNetValue(IBusinessTransactionTypePosition)

Returns the base net value of the position. If the position has no base net value -> net value is returned instead.

#### Declaration

```
public static decimal GetBaseNetValue(this IBusinessTransactionTypePosition position)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">IBusinessTransactionTypePosition</a>	position	The position to evaluate.
--	----------	---------------------------



## Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The base net value of this position.
-------------------------	--------------------------------------

## GetBaseTaxValue(IBusinessTransactionTypePosition)

Returns the base tax value of the position. If the position has no base tax value -> tax value is returned instead.

## Declaration

```
public static decimal GetBaseTaxValue(this IBusinessTransactionTypePosition position)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">IBusinessTransactionTypePosition</a>	position	The position to evaluate.
--	----------	---------------------------

## Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The base tax value of this position.
-------------------------	--------------------------------------

## GetCaption(IBusinessTransactionTypePosition)

Returns the caption of the position. For item positions ItemCaption will returned, for booking positions the caption of the position.

## Declaration

```
public static string GetCaption(this IBusinessTransactionTypePosition position)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">IBusinessTransactionTypePosition</a>	position	The position to evaluate.
--	----------	---------------------------

## Returns

Type	Description
------	-------------

<a href="#">string</a>	The caption of this position.
------------------------	-------------------------------

## Class FiscalResponseGermany

Fiscal response for germany fiscal implementation. Derived from [FiscalResponse](#).

### Inheritance

[object](#)

FiscalResponseGermany

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseGermany
```

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### FiscalDocumentRevision(FiscalResponse)

The revision of the fiscalisation document.

#### Declaration

```
public static int FiscalDocumentRevision(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

#### Returns

#### Type Description

[int](#)

#### GetFiscalResponseGermany(int, List<DocumentTaxPosition>, string, string, string, string, string, long, long, string, string, string, string, string, long, string, int)

Returns the fiscal response for germany out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseGermany(int fiscalDocumentNumber, List<DocumentTaxPosition> taxPositions, string signature, string cashRegisterId, string printMessage,
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	qrCodeDataString	The QR code data string according to Appendix I of DSFinV-K.
<a href="#">long</a>	transactionStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).

Type	Name	Description
<a href="#">long</a>	transactionEndTime	The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
<a href="#">string</a>	processData	The process data of the signed transaction. Binary value (base64 encoded utf8 string). This is the processData according to "Anwendungserlass zu §146a AO".
<a href="#">string</a>	processType	The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".
<a href="#">string</a>	tseSerial	The serialnumber of the tss module.
<a href="#">string</a>	tseTimeFormat	The time format which is used by the tss.
<a href="#">string</a>	tseHashAlgorithm	The hash algorithm which is used by the tss.
<a href="#">string</a>	tsePublicKey	The public key of the tss.
<a href="#">long</a>	tseSignatureCounter	The actual signature counter of the tss after signing the transaction.
<a href="#">string</a>	tseCertificate	The certificate of the tss.
<a href="#">int</a>	fiscalDocumentRevision	

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the fiscal response for germany.

#### ProcessData(FiscalResponse)

The process data of the signed transaction. Binary value (base64 encoded utf8 string). This is the processData according to "Anwendungserlass zu §146a AO".

#### Declaration

```
public static string ProcessData(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

[FiscalResponse](#) fiscalResponse

#### Returns

#### Type Description

[string](#)

#### ProcessType(FiscalResponse)

The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".

#### Declaration

```
public static string ProcessType(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

[FiscalResponse](#) fiscalResponse

#### Returns

#### Type Description

[string](#)

#### QrCodeDataString(FiscalResponse)

The QR code data string according to Appendix I of DSFinV-K.

#### Declaration

```
[Obsolete("This field will be moved to standard field QrCode of fiscal response. This field will be removed from upon version 1.9.")]  
public static string QrCodeDataString(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

[FiscalResponse](#) fiscalResponse

#### Returns

#### Type Description

[string](#)

#### TransactionEndTime(FiscalResponse)

The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.

#### Declaration

```
public static long TransactionEndTime(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**

[long](#)

**TransactionStartTime(FiscalResponse)**

The start time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.

**Declaration**

```
public static long TransactionStartTime(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**

[long](#)

**TseCertificate(FiscalResponse)**

The certificate of the tse.

**Declaration**

```
public static string TseCertificate(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**

[string](#)

**TseHashAlgorithm(FiscalResponse)**

The hash algorithm which is used by the tss.

**Declaration**

```
public static string TseHashAlgorithm(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**

[string](#)

**TsePublicKey(FiscalResponse)**

The public key of the tss.

**Declaration**

```
public static string TsePublicKey(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**

[string](#)

**TseSerial(FiscalResponse)**

The serialnumber of the tss module.

**Declaration**

```
public static string TseSerial(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

Returns

**Type Description**

[string](#)

### TseSignatureCounter(FiscalResponse)

The actual signature counter of the tss after signing the transaction.

#### Declaration

```
public static long TseSignatureCounter(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

#### Returns

#### Type Description

[long](#)

### TseTimeFormat(FiscalResponse)

The time format which is used by the tss.

#### Declaration

```
public static string TseTimeFormat(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

#### Returns

#### Type Description

[string](#)

# Class GermanFiscalProperties

German fiscalisation country properties.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>](#)

GermanFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GermanFiscalProperties : FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

## Type Description

[Version](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

Property Value

## Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

Property Value

## Type Description

[FiscalCountry](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

## Type Description

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

Declaration

```
public override bool FiscalLineInterface { get; }
```

Property Value

## Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.FiscalLineInterface](#)

### **GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

#### **Declaration**

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### **Property Value**

#### **Type Description**

[string](#)

#### **Overrides**

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### **Remarks**

Return empty string if there is not cloud

### **MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### **Declaration**

```
public override int MaximumHourIntervalForClosing { get; }
```

#### **Property Value**

#### **Type Description**

[int](#)

#### **Overrides**

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### **Remarks**

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

### **MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### **Declaration**

```
public override bool MustRecordDocumentReprint { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

#### **Overrides**

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

### **MustSendClosingPerDay**

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### **Declaration**

```
public override bool MustSendClosingPerDay { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)



## Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

## Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

### Type Description

[Vat](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.TaxFreeVat](#)

### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

Declaration

```
public override bool TrainingModeAllowed { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class GermanFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for german fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
GermanFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Germany](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class GermanFiscalisationRequiredAttribute : RequiredAttribute
```

# Class GermanyValidation

## Inheritance

[object](#)

GermanyValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class GermanyValidation
```

## Fields

### PaymentTypesConvertToBusinessCaseTypes

#### Declaration

```
public static readonly ReadOnlyDictionary<PaymentType, BusinessCaseType> PaymentTypesConvertToBusinessCaseTypes
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;PaymentType, BusinessCaseType&gt;</a>	

### SupportedBusinessTypesMapping

#### Declaration

```
public static readonly ReadOnlyDictionary<BusinessTransactionType, BusinessCaseType> SupportedBusinessTypesMapping
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;BusinessTransactionType, BusinessCaseType&gt;</a>	

### SupportedBuyerTypeMapping

#### Declaration

```
public static readonly ReadOnlyDictionary<string, BuyerType> SupportedBuyerTypeMapping
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;string, BuyerType&gt;</a>	

### SupportedDocumentTypesMapping

#### Declaration

```
public static readonly ReadOnlyDictionary<DocumentType, TransactionType> SupportedDocumentTypesMapping
```

## Field Value

Type	Description
<a href="#">ReadOnlyDictionary</a>	<DocumentType, TransactionType>

## SupportedPaymentTypesMapping

### Declaration

```
public static readonly ReadOnlyDictionary<PaymentType, TypeEnum> SupportedPaymentTypesMapping
```

## Field Value

Type	Description
<a href="#">ReadOnlyDictionary</a>	<PaymentType, TypeEnum>

## SupportedVatDefinitions

### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

## Field Value

Type	Description
<a href="#">ReadOnlyCollection</a>	<Vat>

## Properties

### SupportedDocumentTypes

Represents the supported document types by germany fiscalisation.

### Declaration

```
public static List<DocumentType> SupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List</a>	<DocumentType>

## Methods

### ValidateDocument(Document)

validates the document

### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	Document to validate

### Returns

Type	Description
------	-------------



**Type****Description**

[List<DocumentValidationError>](#) A list of errors if the document isn't not valid

**ValidateTseSecurity(List<DocumentValidationError>, FiscalResponse)**

validates the fiscal Client

**Declaration**

```
public static void ValidateTseSecurity(List<DocumentValidationError> errorList, FiscalResponse fiscalResponse)
```

**Parameters****Type****Name****Description**

[List<DocumentValidationError>](#) errorList

[FiscalResponse](#)

fiscalResponse

# Interface ITseInterface

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ITseInterface
```

# Class TaxonomyCloudStoreConfiguration

The configuration for the cloud taxonomy store (DS-FinVK).

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[TaxonomyStoreConfiguration](#)

[TaxonomyCloudStoreConfiguration](#)

## Inherited Members

[TaxonomyStoreConfiguration.Compress](#)

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TaxonomyCloudStoreConfiguration : TaxonomyStoreConfiguration
```

# Class TaxonomyFileStoreConfiguration

The configuration for the local taxonomy store (DS-FinVK).

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[TaxonomyStoreConfiguration](#)

[TaxonomyFileStoreConfiguration](#)

## Inherited Members

[TaxonomyStoreConfiguration.Compress](#)

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TaxonomyFileStoreConfiguration : TaxonomyStoreConfiguration
```

## Properties

### LocalStorePath

The local path to the taxonomy store.

### Declaration

```
public string LocalStorePath { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class TaxonomyStoreConfiguration

Base class for taxonomy store configuration

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[TaxonomyStoreConfiguration](#)

[TaxonomyCloudStoreConfiguration](#)

[TaxonomyFileStoreConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TaxonomyStoreConfiguration : ConfigurationValidationBase
```

## Properties

### Compress

True if the file should be compressed; otherwise false.

### Declaration

```
public bool Compress { get; set; }
```

### Property Value

### Type Description

[bool](#)

# Class TrustedFiscalModuleGermany

Implementation for fiscal regulations in germany.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>](#)  
[TrustedFiscalModuleGermany](#)

## Implements

[IFiscalModullImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleGermany : TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>, IFiscal
```

## Constructors

**TrustedFiscalModuleGermany(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleGermany(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, C
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

## OFFLINE\_TSE\_STORAGE\_PATH

### Declaration

```
public const string OFFLINE_TSE_STORAGE_PATH = "offlineTseStorage"
```

### Field Value

### Type Description

[string](#)

## Properties

### AssemblyDirectory

Returns the directory where the assembly resides.

### Declaration

```
public static string AssemblyDirectory { get; }
```

### Property Value

### Type Description

[string](#)

### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.FiscalClientStatus](#)

## Tse

Returns the connected tse (if connected).

### Declaration

```
public TseBase Tse { get; }
```

### Property Value

Type	Description
<a href="#">TseBase</a>	

### TseStatus

Returns the status of the tse.

### Declaration

```
public TseStatus TseStatus { get; }
```

### Property Value

Type	Description
<a href="#">TseStatus</a>	

## Methods

### CancelDocument(Document)

Cancel the document on the tse.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	The fiscal response including the transaction number

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CancelDocument\(Document\)](#)

### CancelOpenTransactions()

Cancel all open transactions on the tse.

#### Declaration

```
public List<FiscalResponse> CancelOpenTransactions ()
```

#### Returns

Type	Description
------	-------------

[List<FiscalResponse>](#) A list of [FiscalResponse](#) objects representing all

#### Remarks

This method generates an empty receipt with following preconditions:

- DocumentId: Generated Guid
- DocumentNr: Generated Guid
- DocumentGuid: Generated Guid
- DocumentType: Receipt
- DocumentTypeCaption: CancelTransaction

ALL canceled transactions are stored also to DSFIN-VK.

Fiskaly has nearly unlimited open transactions on one tse, but only 100 are supplied through list transactions. If you have more than 100 transactions open you have to call this method more than once.

#### Exceptions

Type	Condition
------	-----------

[InvalidOperationException](#) Thrown if tse is not in a connected state.

#### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

#### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

#### Parameters

Type	Name	Description
------	------	-------------

[ClientConfiguration](#) clientConfiguration

#### Returns

#### Type Description

[bool](#)

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

#### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### CreateDocument(DocumentType)

Creates a document on the tse and returns the fiscal response including the transaction number.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
------	------	-------------

[DocumentType](#) documentType The type of the document for which the document should be created.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) The fiscal response including the transaction number

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

Please consider that document type [EndOfDay](#) has not be signed, therefore an empty fiscal response is returned and no transaction is started at tss.

#### CreateEndOfDayCashPointClosing(ILogger, CashPointClosingHead, CashPointClosingSecurity, List<Transaction>, int, Dictionary<string, Reference>)

creates an end of day cash point closing

#### Declaration

```
public static CashPointClosing CreateEndOfDayCashPointClosing(ILogger logger, CashPointClosingHead endOfDayHeader, CashPointClosingSecurity cashPointClosingSecurity, List<Transact
```

#### Parameters

Type	Name	Description
------	------	-------------

[ILogger](#)

logger

[CashPointClosingHead](#)

endOfDayHeader

[CashPointClosingSecurity](#)

cashPointClosingSecurity



Type	Name	Description
<a href="#">List&lt;Transaction&gt;</a>	transactions	
<a href="#">int</a>	cashPointClosingNumber	
<a href="#">Dictionary&lt;string, Reference&gt;</a>	documentReferences	

Returns

Type	Description
<a href="#">CashPointClosing</a>	

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DecommissionClient\(Document\)](#)

#### DecryptTseParameter(Guid, string)

Decrypts a tse parameter.

Declaration

```
public static string DecryptTseParameter(Guid clientId, string parameterValueEncrypted)
```

Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client of the tse parameter.
<a href="#">string</a>	parameterValueEncrypted	The encrypted value of the tse parameter. If this value is not encrypted the plain value will be returned.

Returns

Type	Description
<a href="#">string</a>	The decrypted parameter value.

#### Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

Declaration

```
public override void Dispose()
```

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.Dispose\(\)](#)

#### EncryptTseParameter(Guid, string)

Encrypts a tse parameter.

Declaration

```
public static string EncryptTseParameter(Guid clientId, string parameterValue)
```

Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client of the tse parameter.
<a href="#">string</a>	parameterValue	The value of the parameter to encrypt.

Returns

Type	Description
<a href="#">string</a>	The encrypted tse parameter.

#### ExportCsvTaxonomyToZipStream(ILogger, ZipOutputStream, List<CashPointClosing>, string)

Declaration

```
public static void ExportCsvTaxonomyToZipStream(ILogger logger, ZipOutputStream zipOutputStream, List<CashPointClosing> closingList, string folderPrefix = "")
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">ZipOutputStream</a>	zipOutputStream	
<a href="#">List&lt;CashPointClosing&gt;</a>	closingList	
<a href="#">string</a>	folderPrefix	

#### ExportJsonTaxonomyToZipStream(ZipOutputStream, List<CashPointClosing>, string)

#### Declaration

```
public static void ExportJsonTaxonomyToZipStream(ZipOutputStream zipOutputStream, List<CashPointClosing> closingList, string folderPrefix = "")
```

#### Parameters

Type	Name	Description
<a href="#">ZipOutputStream</a>	zipOutputStream	
<a href="#">List&lt;CashPointClosing&gt;</a>	closingList	
<a href="#">string</a>	folderPrefix	

#### ExportTar(Stream, DateTime, DateTime)

Exports full tar data and returns it as a download file.

#### Declaration

```
public void ExportTar(Stream outputStream, DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	outputStream	The output stream where the data should be written.
<a href="#">DateTime</a>	fromDate	Required. The start date for the export. Only date-part is used.
<a href="#">DateTime</a>	tillDate	Required. The end date for the export. Only date-part is used.

#### ExportTaxonomy(Stream, DateTime, DateTime, int)

Exports taxonomy and returns it as a download file (zip file format).

#### Declaration

```
public void ExportTaxonomy(Stream outputStream, DateTime fromDate, DateTime tillDate, int type = 0)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	outputStream	The output stream to export the data..
<a href="#">DateTime</a>	fromDate	Required. The start date for the export. Only date-part is used.
<a href="#">DateTime</a>	tillDate	Required. The end date for the export. Only date-part is used.
<a href="#">int</a>	type	The type of the export (json = 0, csv = 1). Default is 0.

#### GetDocumentMandatoryFields(Type)

Returns the mandatory fields for this type for the given country implementation.

#### Declaration

```
public override IReadOnlyList<string> GetDocumentMandatoryFields(Type t)
```

#### Parameters

Type	Name	Description
<a href="#">Type</a>	t	The type to get the mandatory fields.

#### Returns

Type	Description
<a href="#">IReadOnlyList&lt;string&gt;</a>	A list of property names representing the mandatory fields for this country implementation.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)

#### GetOpenEndOfDayCashPointClosing(Guid, Document)

#### Declaration

```
public CashPointClosing GetOpenEndOfDayCashPointClosing(Guid uniqueClientId, Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">CashPointClosing</a>	

#### GetOpenOfflineSignatures()

Returns all open offline signatures stored for the actual tse.

#### Declaration

```
public List<long> GetOpenOfflineSignatures ()
```

#### Returns

Type	Description
<a href="#">List&lt;long&gt;</a>	All open offline signatures stored for the actual tse.

[List<long>](#) All open offline signatures stored for the actual tse.

#### Remarks

The actual returned open document numbers will vary from the number of open offline signatures because open offline signatures only return created documents (tse transaction started).

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if the internal tse is set to null.

[InvalidOperationException](#) Thrown if the internal tse is set to null.

#### GetTseOpenOfflineSignatureCount()

#### Declaration

```
public int GetTseOpenOfflineSignatureCount()
```

#### Returns

#### Type Description

[int](#)

#### GetTseParameter(TseConfiguration, Guid, string)

Returns the tse parameter for the given parameter name from the given configuration.

#### Declaration

```
public static string GetTseParameter(TseConfiguration configuration, Guid clientId, string parameterName)
```

#### Parameters

Type	Name	Description
<a href="#">TseConfiguration</a>	configuration	The configuration containing the parameter.
<a href="#">Guid</a>	clientId	The clientId of the client which holds this parameter.
<a href="#">string</a>	parameterName	The name of the requested parameter.

[TseConfiguration](#) configuration The configuration containing the parameter.

[Guid](#) clientId The clientId of the client which holds this parameter.

[string](#) parameterName The name of the requested parameter.

#### Returns

#### Type Description

[string](#) The tse parameter for the given parameter name from the given configuration.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter configuration is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter clientId is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter parameterName is set to null or <a href="#">Empty</a> .

[ArgumentNullException](#) Thrown if parameter configuration is set to null.

[ArgumentNullException](#) Thrown if parameter clientId is set to [Empty](#).

[ArgumentNullException](#) Thrown if parameter parameterName is set to null or [Empty](#).

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

#### Type Description

[string](#) The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.InitializeClient\(Document\)](#)

### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

## Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

## ProcessTseOpenOfflineSignatures(int)

Process open offline signatures.

### Declaration

```
public void ProcessTseOpenOfflineSignatures(int count)
```

### Parameters

Type	Name	Description
<a href="#">int</a>	<code>count</code>	The count of the signatures to process; -1 will process all open signatures (consider runtime!).

## Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if the internal tse is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>count</code> is not greater 0 or -1.

## ReplaceTse(TseDriver, bool, List<Parameter>)

Replaces a current tse for the given client with a new one (for instance if old tse is damaged or certificate is out of date).

### Declaration

```
public void ReplaceTse(TseDriver newTseDriver, bool forceReplace = false, List<Parameter> newTseParameter = null)
```

### Parameters

Type	Name	Description
<a href="#">TseDriver</a>	<code>newTseDriver</code>	The new tse to replace.
<a href="#">bool</a>	<code>forceReplace</code>	True if the tse replace process should continue also if old tse cannot be archived (data export) any more; otherwise false.
<a href="#">List&lt;Parameter&gt;</a>	<code>newTseParameter</code>	Do not use. Will be replaced by new tse replace which also will support change of driver.

## Exceptions

Type	Condition
<a href="#">NotSupportedException</a>	Thrown if tse is not a swissbit hardware or cloud tse. Thrown if tse type is changed.
<a href="#">InvalidOperationException</a>	Thrown if no uninitialized tse is found which is connected to the system.

## RunSelfTest(string)

Runs a self test for the given cash register on the tse (cash register is optional).

### Declaration

```
public void RunSelfTest(string cashRegisterId = "SELFTTEST")
```

### Parameters

Type	Name	Description
<a href="#">string</a>	<code>cashRegisterId</code>	The cash register id for the self test (optional). In case of initialized tse this parameter is not used.

## StoreConfiguration(ClientConfiguration)

Stores configuration to configuration provider (through action) and stores also configuration of tse to the cloud.

### Declaration

```
protected override void StoreConfiguration(ClientConfiguration configuration)
```

### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">ClientConfiguration</a>	configuration	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.StoreConfiguration\(ClientConfiguration\)](#)

Remarks

Overrides base class method (this only stores to configuration)

**StoreDocument(Document)**

Signs the document, returns a [FiscalResponseGermany](#) object and stores it to the DSFin-VK storage.

Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

Parameters

Type	Name	Description
<a href="#">Document</a>	document	

Returns

Type	Description
<a href="#">FiscalResponse</a>	The fiscal response including the transaction number

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.StoreDocument\(Document\)](#)

Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the given document was not created with correct <a href="#">FiscalResponse</a> created by <a href="#">CreateDocument(DocumentType)</a> .

**UpdateTseFirmware(string)**

Updates the firmware at the swissbit device.

Declaration

```
public string UpdateTseFirmware(string version)
```

Parameters

Type	Name	Description
<a href="#">string</a>	version	The requested firmware version. Will fail if firmware version is not delivered.

Returns

**Type Description**

[string](#)

Remarks

Firmware update currently only supported for usb swissbit hardware tse.

Firmware update on developer tse's only switching between version 1.1.100 and 1.1.200. Version parameter ignored.

Exceptions

Type	Condition
<a href="#">DirectoryNotFoundException</a>	Thrown if the firmware update path is not found.
<a href="#">NotSupportedException</a>	Thrown if firmware type of tse is not "DEV" or "RLS".
<a href="#">FileNotFoundException</a>	Thrown if the requested firmware update bin file is not found.
<a href="#">InvalidOperationException</a>	Thrown if the tse to update the firmware is not in status <a href="#">Connected</a> or <a href="#">ConnectedWarning</a> .

**ValidateDocumentImplementation(Document, bool)**

Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

## **Implements**

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Class TseConfiguration

Configuration for a single tse unit.

## Inheritance

### [object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

TseConfiguration

## Implements

[IEquatable<TseConfiguration>](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseConfiguration : ConfigurationValidationBase, IEquatable<TseConfiguration>
```

## Properties

### TseDriver

The supported driver for the tse configuration.

#### Declaration

```
public TseDriver TseDriver { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">TseDriver</a>	
---------------------------	--

### TseGuid

The guid of the tse (there is wether a guid or an id for a tse, not both).

#### Declaration

```
[Obsolete]  
public Guid? TseGuid { get; set; }
```



**Property Value**

### **Type Description**

[Guid?](#)

### **TseId**

The id of the tse.

### **Declaration**

```
public string TseId { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **TseParameter**

Additional parameters for tse configuration.

### **Declaration**

```
[JsonConverter(typeof(TseParameterJsonConverter))]  
public virtual List<Parameter> TseParameter { get; set; }
```

**Property Value**

<b>Type</b>	<b>Description</b>
-------------	--------------------

<a href="#">List&lt;Parameter&gt;</a>	
---------------------------------------	--

### **UseTseGuid**

True if the tse has to use the guid; otherwise false (use id).

### **Declaration**

```
[Obsolete]  
public bool UseTseGuid { get; set; }
```

**Property Value**

### **Type Description**

[bool](#)

## **Methods**

### **Equals(TseConfiguration)**

Indicates whether the current object is equal to another object of the same type.

### **Declaration**

```
public bool Equals(TseConfiguration other)
```

**Parameters**

<b>Type</b>	<b>Name</b>	<b>Description</b>
-------------	-------------	--------------------

<a href="#">TseConfiguration</a>	other	An object to compare with this object.
----------------------------------	-------	--

## Returns

Type	Description
------	-------------

[bool](#) [true](#) if the current object is equal to the `other` parameter; otherwise, [false](#).

## GetTseParameter(Guid, string)

Returns the tse parameter for the given parameter name.

## Declaration

```
public string GetTseParameter(Guid clientId, string parameterName)
```

## Parameters

Type	Name	Description
------	------	-------------

[Guid](#) `clientId` The `clientId` of the client which holds this parameter.

[string](#) `parameterName` The name of the requested parameter.

## Returns

Type	Description
------	-------------

[string](#) The tse parameter for the given parameter name.

## Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `clientId` is set to [Empty](#).

[ArgumentNullException](#) Thrown if parameter `parameterName` is set to null or [Empty](#).

## Implements

[IEquatable<T>](#)

# Enum TseDriver

The actual implemented Tse Driver for german fiscalisation.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum TseDriver
```

## Remarks

Please ensure not to add a new driver here, if driver has not been fully implemented and tested.

## Fields

Name	Description
Fiskaly	Driver for fiskaly cloud.
Swissbit	Driver for swissbit hardware.
SwissbitCloud	Driver for swissbit cloud.
TestTse	Driver for a test tse (not for production).

# Class TseDriverInfo

Information about tse driver and it's configuration.

## Inheritance

[object](#)

TseDriverInfo

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseDriverInfo
```

## Properties

### Parameters

Additional parameters to configure the tse driver

### Declaration

```
public List<ParameterInfo> Parameters { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;ParameterInfo&gt;</a>	

### TseDriver

The driver for this driver information

### Declaration

```
public TseDriver TseDriver { get; set; }
```

### Property Value

Type	Description
<a href="#">TseDriver</a>	

### UseGuid

True if guid is to use; otherwise false

### Declaration

```
public bool UseGuid { get; set; }
```

### Property Value

## Type Description

[bool](#)

# Class TseParameterJsonConverter

Converts old json format (dictionary in tse parameter) to new list format.

## Inheritance

[object](#)

JsonConverter

TseParameterJsonConverter

## Inherited Members

JsonConverter.CanRead

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseParameterJsonConverter : JsonConverter
```

## Properties

### CanWrite

Gets a value indicating whether this Newtonsoft.Json.JsonConverter can write JSON.

#### Declaration

```
public override bool CanWrite { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	true if this Newtonsoft.Json.JsonConverter can write JSON; otherwise, false.
----------------------	--

#### Overrides

Newtonsoft.Json.JsonConverter.CanWrite

## Methods

### CanConvert(Type)

Determines whether this instance can convert the specified object type.

#### Declaration

```
public override bool CanConvert(Type objectType)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Type</a>	objectType	Type of the object.
----------------------	------------	---------------------

#### Returns

Type	Description
------	-------------

[bool](#) true if this instance can convert the specified object type; otherwise, false.

#### Overrides

[JsonConverter.CanConvert\(Type\)](#)

#### ReadJson(JsonReader, Type, object, JsonSerializer)

Reads the JSON representation of the object.

#### Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonReader	reader	The Newtonsoft.Json.JsonReader to read from.
<a href="#">Type</a>	objectType	Type of the object.
<a href="#">object</a>	existingValue	The existing value of object being read.
JsonSerializer	serializer	The calling serializer.

#### Returns

Type	Description
------	-------------

[object](#) The object value.

#### Overrides

[JsonConverter.ReadJson\(JsonReader, Type, object, JsonSerializer\)](#)

#### WriteJson(JsonWriter, object, JsonSerializer)

Writes the JSON representation of the object.

#### Declaration

```
public override void WriteJson(JsonWriter writer, object value, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonWriter	writer	The Newtonsoft.Json.JsonWriter to write to.
<a href="#">object</a>	value	The value.
JsonSerializer	serializer	The calling serializer.

#### Overrides

[JsonConverter.WriteJson\(JsonWriter, object, JsonSerializer\)](#)

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Taxonomy

## Classes

### [AddressOptional](#)

### [AddressStrict](#)

### [BusinessCase](#)

Der business\_case qualifiziert den Geschäftsvorfall in der Einzelbewegung und im Kassenabschluss fachlich und inhaltlich

### [BusinessCaseLineClass](#)

### [Buyer](#)

Bildet die Klammer um alle Daten zu einem Käufer. Hintergrund: Ab einem Rechnungsbetrag von 200,00€ ist die sogenannte Kleinbetragsgrenze einer Rechnung überschritten. Dann muss die Käuferadresse erfasst werden. Dazu dienen die Felder unter der Klammer [buyer]. Auch hier gibt es einen Namen und die entsprechende Adresse.

### [CashAmountsByCurrency](#)

### [CashPointClosing](#)

set TaxonomyVersion

### [CashPointClosingHead](#)

In dieser Klammer werden die zentralen Stammdaten des Kassenabschlusses dargestellt.

### [CashPointClosingSecurity](#)

Container für Daten von Sicherheitseinrichtungen, die für den ganzen Kassenabschluss gelten.

### [CashRegister](#)

Die Klammer um alle Angaben zur jeweiligen Kasse.

### [CashRegisterSoftware](#)

### [CashStatement](#)

Alle Bewegungen einer Kasse werden im CashStatement dargestellt. Das Cashstatement einer Kasse stellt in einem Block die Geschäftsvorfälle und in einem zweiten Block die Zahlungsströme dar.

### [ClosingCashRegister](#)

### [Company](#)

Bildet die Klammer bezüglich aller Informationen zum Unternehmen. Ist es beabsichtigt, im laufenden Betrieb des Unternehmens Angaben innerhalb dieser Klammer zu ändern, so muss davor zwingend ein Kassenabschluss durchgeführt werden.

### [Coordinate](#)

added special converter to support old versions where coordinate not in json file hides serializer settings

### [CsvExport](#)

### [CustomFieldDefinitions](#)

### [CustomFields](#)

sofern branchen- oder herstellerspezifische Informationen zusätzlich im Datensatz abgebildet werden sollen, für die jedoch keine geeigneten



Positionen im Standard vorhanden sind, besteht die Möglichkeit, die Datensatzbeschreibung über benutzerdefinierte Positionen, sogenannte „Custom\_Fields“, zu erweitern. Aufgrund der individuellen Erweiterung der Taxonomie haben diese Felder lediglich deklaratorischen Charakter und werden keiner automatisierten Weiterverarbeitung zugefügt

## Data

Bildet die Klammer um alle Bewegungsdaten eines Einzelbons. TransactionData unterscheiden die Daten in Gesamtbetrag mit Aufteilung in Zahlarten und umsatzsteuerliche Sachverhalte, Zusatznotizen, BonPositionen mit Artikel oder Warengruppenbezug und Bon Positionen ohne Artikel oder Warengruppenbezug.

## DataPaymentType

Unterteilung der gezahlten Beträge nach Zahlart und Währung.

## DateFormatConverter

## FinishTransaction

## FluffyTse

Auf die Transaktion bezogene Daten der Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

## Item

Innerhalb des Geschäftsvorfalles bildet der item die Klammer um alle Artikelspezifischen Informationen.

## Line

## Location

Unter dem Klammerbegriff Abrechnungsort werden alle Daten zum Abrechnungsort der Kasse vorgehalten. Der Abrechnungsort kann eine Abteilungsbezeichnung, eine Filiale oder ein variabler Punkt sein.

## Module

## Payment

Die Zahlart bildet den zweiten Block des CashStatement und untergliedert den gesamten Zahlungsstrom an einer Kasse in verschiedene Zahlarten.

## PaymentPaymentType

Jede Kasse muss unterscheiden können zwischen den Zahlarten Bar, Unbar, Keine. Bar kennzeichnet den Gesamtbetrag aller Barzahlungen. Unbar kennzeichnet die Summe aller Zahlungsströme aus Zahlarten die keine Bargeldzahlung darstellen. Verfügt das Kassensystem über die Möglichkeit, einzelne Zahlarten erfassen und darstellen zu können, so müssen diese dargestellt werden. Eine momentane Aufstellung der einzelnen Zahlarten ist hinterlegt. Es ist auch möglich, dass z. Bsp. Lieferscheine an der Kasse erfasst werden. Für diesen Fall wurde u.a. die Zahlart [Keine] eingeführt. Die Zahlart [Keine] darf mit keiner anderen Zahlart kombiniert werden.

## ProcessingFlags

Die Aktivierung dieses Feldes kennzeichnet, dass diese Kasse eine umsatzsteuerliche Zuordnung zum Zeitpunkt der Forderungsauflösung nicht treffen kann. Soll diese Einstellung geändert werden, so ist zuerst zwingend ein Kassenabschluss zu erstellen. Die umsatzsteuerliche Zuordnung erfolgt somit in jedem Falle zum Zeitpunkt der Lieferung und der Leistung.

## PurchaserAgency

## PurpleTse

Für den gesamten Kassenabschluss gültige Informationen zur Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

## Reference

'Reference' beschreibt eine Referenz auf Taxonomie-Transaktion oder einen Lieferschein bzw. eine Rechnung aus einem Dritt-System

## Serialize

## Slave

## SlaveSoftware

## SourceCashRegister

## StartTransaction

## SubItem

## TaxonomyFileStore

Saves the taxonomy files to disk and handles unfinished cash point closings

## TaxonomyStore<T>

Represents the local and cloud storage provider for Taxonomy Germany (DSFin-VK, DFKA).

## Transaction

Bildet die Klammer um eine einzige Einzelbewegung. Ist also der Einzelbeleg bzw. der Einzelbon. Auch die Transaktion gliedert sich in Kopf- und Bewegungsdaten.

## TransactionHead

Der Transaktionskopf beinhaltet alle Stammdaten zur Einzelbewegung.

## TransactionSecurity

Container für Daten von Sicherheitseinrichtungen, die für eine einzelne Transaktion gelten.

## User

Der Benutzer ist die Person, die offiziell für die Abrechnung der Einzelbewegung an der Kasse verantwortlich ist. (Bsp.: Bedienung erfasst bzw. boniert, User kassiert)

## ValidationHelper

## VatAmountGrossAndNet

Einem Geschäftsvorfall können ein oder mehrere Beträge getrennt nach Umsatzsteuersätzen zugewiesen werden.

## VatAmountGrossAndNetReceipt

Aufteilung des Gesamtbetrages einer Transaktion in die Einzelbeträge nach ausgewiesenen Umsatzsteuersätzen.

## VatAmountGrossOrNet

## VatAmountOnly

## VatDefinition

## **Structs**

## BusinessCaseLine

Der business\_case einer Line kann nur entweder in Brutto oder Nettodarstellung erfolgen

## **Enums**

## BusinessCaseType

Der Type kennzeichnet Geschäftsvorfälle mit unterschiedlichen Ausprägungen.

### BuyerType

### CountryCode

Ländercode nach ISO 3166 alpha-3

### Currency

Jeder Kassenabschluss hat ausschließlich eine Basiswährung. Die Angabe der Basiswährung bezieht sich auf die Basiswährung der Kasse. Die Basiswährung wird dargestellt nach ISO 4217 (Spalte: ISO-Code) Bsp.: Euro = EUR; Alle Zahlungen in Fremdwährung auf dem Einzelbeleg werden im Kassenabschluss in die Basiswährung umgerechnet.

### LogTimeFormat

Das von der TSE verwendete Format für die Log-Time - 'utcTime' = YYMMDDhhmmZ, 'utcTimeWithSeconds' = YYMMDDhhmmssZ, 'generalizedTime' = YYYYMMDDhhmmssZ, 'generalizedTimeWithMilliseconds' = YYYYMMDDhhmmss.fffZ

### ProcessDataEncoding

Das beim Erzeugen der process\_data verwendete Encoding - kann UTF-8 oder ASCII sein

### ReferenceType

### SignatureAlgorithm

Der von der TSE verwendete Signaturalgorithmus

### TransactionType

Der Transaktionstyp ordnet und unterteilt alle Vorgänge in Geschäftsvorfälle (Beleg) und andere Vorgänge. Durch diese Zuordnung wird auch die Weiterverarbeitung im Kassenabschluss gesteuert. Ausschließlich Einzelbewegungen mit dem Transaktionstyp Beleg besitzen Relevanz für den Kassenabschluss. Im Beleg werden z. Bsp.: Rechnungen, Lieferscheine, Korrekturen etc. dargestellt. Werden Einzelbewegungen aus anderen Grundaufzeichnungssystemen des Unternehmens heraus weiterverarbeitet, so dürfen diese Einzelbewegungen nicht den Transaktionstypen Beleg erhalten

### TypeEnum

# Class AddressOptional

## Inheritance

[object](#)

AddressOptional

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AddressOptional
```

## Properties

### City

#### Declaration

```
[JsonProperty("city", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(TentacledMinMaxLengthCheckConverter))]  
public string City { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CountryCode

#### Declaration

```
[JsonProperty("country_code", NullValueHandling = NullValueHandling.Ignore)]  
public CountryCode? CountryCode { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CountryCode?](#)

### PostalCode

#### Declaration

```
[JsonProperty("postal_code", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(StickyMinMaxLengthCheckConverter))]  
public string PostalCode { get; set; }
```

#### Property Value

### Type Description

[string](#)

## Street

### Declaration

```
[JsonProperty("street", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Street { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class AddressStrict

## Inheritance

[object](#)

AddressStrict

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AddressStrict
```

## Properties

### City

#### Declaration

```
[JsonProperty("city")]  
[JsonConverter(typeof(TentacledMinMaxLengthCheckConverter))]  
public string City { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CountryCode

#### Declaration

```
[JsonProperty("country_code")]  
public CountryCode CountryCode { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CountryCode](#)

### PostalCode

#### Declaration

```
[JsonProperty("postal_code")]  
[JsonConverter(typeof(StickyMinMaxLengthCheckConverter))]  
public string PostalCode { get; set; }
```

#### Property Value

### Type Description

[string](#)

## Street

### Declaration

```
[JsonProperty("street")]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Street { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class BusinessCase

Der business\_case qualifiziert den Geschäftsvorfall in der Einzelbewegung und im Kassenabschluss fachlich und inhaltlich

## Inheritance

[object](#)

BusinessCase

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessCase
```

## Properties

### AmountsPerVatId

Einem Geschäftsvorfall können ein oder mehrere Beträge getrennt nach Umsatzsteuersätzen zugewiesen werden.

#### Declaration

```
[JsonProperty("amounts_per_vat_id")]  
public List<VatAmountGrossAndNet> AmountsPerVatId { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<VatAmountGrossAndNet>](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CustomFields](#)

### Name

Der name untergliedert den business\_case fachlich und inhaltlich tiefer. Einem business\_case können kein, ein oder mehrere names zugeordnet werden.

#### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```



#### Property Value

#### Type Description

[string](#)

#### PurchaserAgencyId

Der Geschäftsvorfall kann einer Agentur zugewiesen werden. Ein Geschäftsvorfall darf nur einer Agentur zugewiesen werden.

#### Declaration

```
[JsonProperty("purchaser_agency_id", NullValueHandling = NullValueHandling.Ignore)]  
public long? PurchaserAgencyId { get; set; }
```

#### Property Value

#### Type Description

[long?](#)

#### Type

Der Type kennzeichnet Geschäftsvorfälle mit unterschiedlichen Ausprägungen.

#### Declaration

```
[JsonProperty("type")]  
public BusinessCaseType Type { get; set; }
```

#### Property Value

Type	Description
------	-------------

[BusinessCaseType](#)

# Struct BusinessCaseLine

Der business\_case einer Line kann nur entweder in Brutto oder Nettodarstellung erfolgen

## Inherited Members

[ValueType.Equals\(object\)](#)  
[ValueType.GetHashCode\(\)](#)  
[ValueType.ToString\(\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public struct BusinessCaseLine
```

## Fields

### AnythingArray

#### Declaration

```
public List<object> AnythingArray
```

#### Field Value

Type	Description
<a href="#">List&lt;object&gt;</a>	

### Bool

#### Declaration

```
public bool? Bool
```

#### Field Value

#### Type Description

[bool?](#)

### BusinessCaseLineClass

#### Declaration

```
public BusinessCaseLineClass BusinessCaseLineClass
```

#### Field Value

Type	Description
<a href="#">BusinessCaseLineClass</a>	

### Double

#### Declaration

```
public decimal? Double
```

#### Field Value

## Type Description

[decimal?](#)

## Integer

### Declaration

```
public long? Integer
```

### Field Value

## Type Description

[long?](#)

## String

### Declaration

```
public string String
```

### Field Value

## Type Description

[string](#)

## Properties

### IsNull

### Declaration

```
public bool IsNull { get; }
```

### Property Value

## Type Description

[bool](#)

## Operators

### implicit operator BusinessCaseLine(BusinessCaseLineClass)

### Declaration

```
public static implicit operator BusinessCaseLine(BusinessCaseLineClass BusinessCaseLineClass)
```

### Parameters

Type	Name	Description
<a href="#">BusinessCaseLineClass</a>	BusinessCaseLineClass	

### Returns

Type	Description
<a href="#">BusinessCaseLine</a>	

### implicit operator BusinessCaseLine(bool)

### Declaration

```
public static implicit operator BusinessCaseLine(bool Bool)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">bool</a>		Bool
----------------------	--	------

## Returns

Type	Description
------	-------------

<a href="#">BusinessCaseLine</a>	
----------------------------------	--

## implicit operator BusinessCaseLine(List<object>)

### Declaration

```
public static implicit operator BusinessCaseLine(List<object> AnythingArray)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">List&lt;object&gt;</a>	AnythingArray	
------------------------------------	---------------	--

## Returns

Type	Description
------	-------------

<a href="#">BusinessCaseLine</a>	
----------------------------------	--

## implicit operator BusinessCaseLine(decimal)

### Declaration

```
public static implicit operator BusinessCaseLine(decimal Double)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">decimal</a>	Double	
-------------------------	--------	--

## Returns

Type	Description
------	-------------

<a href="#">BusinessCaseLine</a>	
----------------------------------	--

## implicit operator BusinessCaseLine(long)

### Declaration

```
public static implicit operator BusinessCaseLine(long Integer)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">long</a>	Integer	
----------------------	---------	--

## Returns

Type	Description
------	-------------

<a href="#">BusinessCaseLine</a>	
----------------------------------	--

## implicit operator BusinessCaseLine(string)

### Declaration

```
public static implicit operator BusinessCaseLine(string String)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	String	
------------------------	--------	--

#### Returns

Type	Description
<a href="#">BusinessCaseLine</a>	

# Class BusinessCaseLineClass

## Inheritance

[object](#)

BusinessCaseLineClass

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessCaseLineClass
```

## Properties

### AmountsPerVatId

#### Declaration

```
[JsonProperty("amounts_per_vat_id")]  
public List<VatAmountOnly> AmountsPerVatId { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;VatAmountOnly&gt;</a>	

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
<a href="#">CustomFields</a>	

## Name

Der name untergliedert den business\_case fachlich und inhaltlich tiefer. Einem business\_case können kein, ein oder mehrere names zugeordnet werden.

#### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

#### Property Value

## Type Description

## Type Description

### **PurchaserAgencyId**

Der Geschäftsvorfall kann einer Agentur zugewiesen werden. Ein Geschäftsvorfall darf nur einer Agentur zugewiesen werden.

#### **Declaration**

```
[JsonProperty("purchaser_agency_id", NullValueHandling = NullValueHandling.Ignore)]  
public long? PurchaserAgencyId { get; set; }
```

#### **Property Value**

## **Type Description**

[long?](#)

## **Type**

Der Type kennzeichnet Geschäftsvorfälle mit unterschiedlichen Ausprägungen.

#### **Declaration**

```
[JsonProperty("type")]  
public BusinessCaseType Type { get; set; }
```

#### **Property Value**

<b>Type</b>	<b>Description</b>
-------------	--------------------

<a href="#">BusinessCaseType</a>	
----------------------------------	--

# Enum BusinessCaseType

Der Type kennzeichnet Geschäftsvorfälle mit unterschiedlichen Ausprägungen.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum BusinessCaseType
```

## Fields

Name	Description
Anfangsbestand	
Anzahlungsaufloesung	
Anzahlungseinstellung	
Aufschlag	
Auszahlung	
DifferenzSollIst	
Einzahlung	
EinzweckgutscheinEinloesung	
EinzweckgutscheinKauf	
Forderungsaufloesung	
Forderungsentstehung	
Geldtransit	
Lohnzahlung	
MehrweckgutscheinEinloesung	
MehrweckgutscheinKauf	
Pfand	
PfandRueckzahlung	
Privateinlage	
Privatentnahme	
Rabatt	
TrinkgeldAg	
TrinkgeldAn	
Umsatz	
ZuschussEcht	
ZuschussUnecht	



# Class Buyer

Bildet die Klammer um alle Daten zu einem Käufer. Hintergrund: Ab einem Rechnungsbetrag von 200,00€ ist die sogenannte Kleinbetragsgrenze einer Rechnung überschritten. Dann muss die Käuferadresse erfasst werden. Dazu dienen die Felder unter der Klammer [buyer]. Auch hier gibt es einen Namen und die entsprechende Adresse.

## Inheritance

[object](#)

Buyer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Buyer
```

## Properties

### Address

#### Declaration

```
[JsonProperty("address", NullValueHandling = NullValueHandling.Ignore)]  
public AddressOptional Address { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">AddressOptional</a>	
---------------------------------	--

### Id

Die Kundennummer des Käufers.

#### Declaration

```
[JsonProperty("id")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Name

Die Name des Käufers.

#### Declaration

```
[JsonProperty("name")]
```

```
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Type

#### Declaration

```
[JsonProperty("type")]  
public BuyerType Type { get; set; }
```

#### Property Value

#### Type Description

[BuyerType](#)

#### VatIdNumber

Laut §14a UStG ist ggf. auch die Umsatzsteuer-Identifikationsnummer des Leistungsempfängers anzugeben.

#### Declaration

```
[JsonProperty("vat_id_number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]  
public string VatIdNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Enum BuyerType

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum BuyerType
```

## Fields

Name	Description
Kunde	
Mitarbeiter	
Sonstige	

# Class CashAmountsByCurrency

## Inheritance

[object](#)

CashAmountsByCurrency

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashAmountsByCurrency
```

## Properties

### Amount

Der Betrag in der entsprechenden Wahrung

#### Declaration

```
[JsonProperty("amount")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal Amount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### CurrencyCode

#### Declaration

```
[JsonProperty("currency_code")]  
public Currency CurrencyCode { get; set; }
```

#### Property Value

#### Type Description

[Currency](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">CustomFields</a>	

# Class CashPointClosing

set TaxonomyVersion

## Inheritance

[object](#)

CashPointClosing

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashPointClosing
```

## Constructors

### CashPointClosing()

#### Declaration

```
public CashPointClosing()
```

## Properties

### CashStatement

Alle Bewegungen einer Kasse werden im CashStatement dargestellt. Das Cashstatement einer Kasse stellt in einem Block die Geschäftsvorfälle und in einem zweiten Block die Zahlungsströme dar.

#### Declaration

```
[JsonProperty("cash_statement", NullValueHandling = NullValueHandling.Ignore)]  
public CashStatement CashStatement { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CashStatement](#)

### CustomFieldDefinitions

#### Declaration

```
[JsonProperty("custom_field_definitions", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFieldDefinitions CustomFieldDefinitions { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CustomFieldDefinitions](#)

## Head

In dieser Klammer werden die zentralen Stammdaten des Kassenabschlusses dargestellt.

#### Declaration

```
[JsonProperty("head")]  
public CashPointClosingHead Head { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashPointClosingHead</a>	

#### Number

Jede Kasse vergibt die Kassenabschlussnummer. Diese ist aufsteigend, fortlaufend, nicht zurücksetzbar. Sie darf sich innerhalb einer Kasse nicht wiederholen. Durch die Hinzunahme der cash\_register/id wird der Kassenabschluss eindeutig

#### Declaration

```
[JsonProperty("number")]  
public long Number { get; set; }
```

#### Property Value

#### Type Description

[long](#)

#### Security

Container für Daten von Sicherheitseinrichtungen, die für den ganzen Kassenabschluss gelten.

#### Declaration

```
[JsonProperty("security", NullValueHandling = NullValueHandling.Ignore)]  
public CashPointClosingSecurity Security { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashPointClosingSecurity</a>	

#### TaxonomyVersion

Taxonomieversion

#### Declaration

```
[JsonProperty("taxonomy_version")]  
public string TaxonomyVersion { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Transactions

Bildet die Klammer um alle Einzelbewegungen eines Kassenabschlusses

#### Declaration

```
[JsonProperty("transactions", NullValueHandling = NullValueHandling.Ignore)]  
public List<Transaction> Transactions { get; set; }
```

Property Value

Type	Description
<a href="#">List</a>	<Transaction>



# Class CashPointClosingHead

In dieser Klammer werden die zentralen Stammdaten des Kassenabschlusses dargestellt.

## Inheritance

[object](#)

CashPointClosingHead

## Inherited Members

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashPointClosingHead
```

## Properties

### BusinessDate

Das optionale Buchungsdatum des Kassenabschluss, z.B. zur Buchung in der Finanzbuchhaltung. Der Buchungstag muss angegeben werden, wenn dieser vom Erstellungstag abweicht. Die Angabe erfolgt nach nach ISO 8601 und RFC3339 im Format 'JJJJ-MM-TT'

### Declaration

```
[JsonProperty("business_date", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(DateFormatConverter), new object[] { "yyyy-MM-dd" })]  
public DateTimeOffset? BusinessDate { get; set; }
```

### Property Value

Type	Description
<a href="#">DateTimeOffset?</a>	

### Company

Bildet die Klammer bezüglich aller Informationen zum Unternehmen. Ist es beabsichtigt, im laufenden Betrieb des Unternehmens Angaben innerhalb dieser Klammer zu ändern, so muss davor zwingend ein Kassenabschluss durchgeführt werden.

### Declaration

```
[JsonProperty("company")]  
public Company Company { get; set; }
```

### Property Value

Type	Description
<a href="#">Company</a>	

### CreationDate

Das Erstellungsdatum des Kassenabschlusses.

### Declaration

```
[JsonProperty("creation_date")]
public DateTimeOffset CreationDate { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
<a href="#">CustomFields</a>	

### FirstId

Die Id der ersten Transaktion die in einen Kassenabschluss fließt.

#### Declaration

```
[JsonProperty("first_id")]
[JsonConverter(typeof(MagentaMinMaxLengthCheckConverter))]
public string FirstId { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

### LastId

Die Id der letzten Transaktion die in einen Kassenabschluss fließt.

#### Declaration

```
[JsonProperty("last_id")]
[JsonConverter(typeof(MagentaMinMaxLengthCheckConverter))]
public string LastId { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

### Methods

#### Equals(object)

Equals !! if needed override hash code !!

#### Declaration

```
public override bool Equals(object obj)
```

#### Parameters

Type	Name	Description
<a href="#">object</a>	obj	

**Returns**

**Type Description**

[bool](#)

**Overrides**

[object.Equals\(object\)](#)

# Class CashPointClosingSecurity

Container für Daten von Sicherheitseinrichtungen, die für den ganzen Kassenabschluss gelten.

## Inheritance

[object](#)

CashPointClosingSecurity

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashPointClosingSecurity
```

## Properties

### Tse

Für den gesamten Kassenabschluss gültige Informationen zur Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

### Declaration

```
[JsonProperty("tse", NullValueHandling = NullValueHandling.Ignore)]  
public PurpleTse Tse { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">PurpleTse</a>	
---------------------------	--

# Class CashRegister

Die Klammer um alle Angaben zur jeweiligen Kasse.

## Inheritance

[object](#)

CashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegister
```

## Properties

### BaseCurrencyCode

#### Declaration

```
[JsonProperty("base_currency_code")]  
public Currency BaseCurrencyCode { get; set; }
```

#### Property Value

##### Type Description

[Currency](#)

### Brand

Bezeichnet die Marke des Kassenherstellers.

#### Declaration

```
[JsonProperty("brand")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Brand { get; set; }
```

#### Property Value

##### Type Description

[string](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

## Type Description

### [CustomFields](#)

#### Id

Die id ist die Identifikationsnummer, die der Hersteller an eine Kasse vergibt um diese eindeutig zu identifizieren. Falls vorhanden wird hier die Id erwartet, die ab dem 01.01.2020 der Finanzverwaltung zu melden ist. Alternativ die Seriennummer. Wichtig: Eine Kassen-Id. darf nicht zweimal vergeben sein! Ebenfalls zu beachten: Falls mehrere Kassen über eine zentrale Kasse abgerechnet werden, so ist bei dieser ID immer die ID des addierenden und meldenden Systems anzugeben.

#### Declaration

```
[JsonProperty("id")]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Model

Bezeichnet das Modell der jeweiligen Kasse.

#### Declaration

```
[JsonProperty("model")]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string Model { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### ProcessingFlags

Die Aktivierung dieses Feldes kennzeichnet, dass diese Kasse eine umsatzsteuerliche Zuordnung zum Zeitpunkt der Forderungsauflösung nicht treffen kann. Soll diese Einstellung geändert werden, so ist zuerst zwingend ein Kassenabschluss zu erstellen. Die umsatzsteuerliche Zuordnung erfolgt somit in jedem Falle zum Zeitpunkt der Lieferung und der Leistung.

#### Declaration

```
[JsonProperty("processing_flags", NullValueHandling = NullValueHandling.Ignore)]
public ProcessingFlags ProcessingFlags { get; set; }
```

#### Property Value

## Type Description

### [ProcessingFlags](#)

#### PurchaserAgencies

Diese Klammer beinhaltet Name und Adresse des Agenturgebers für Agenturumsätze

#### Declaration

```
[JsonProperty("purchaser_agencies", NullValueHandling = NullValueHandling.Ignore)]
public List<PurchaserAgency> PurchaserAgencies { get; set; }
```

#### Property Value

## Type Description

Type	Description
<a href="#">List&lt;PurchaserAgency&gt;</a>	

## SerialNumber

Seriennummer der jeweiligen Kasse.

### Declaration

```
[JsonProperty("serial_number")]  
[JsonConverter(typeof(AmbitiousMinMaxLengthCheckConverter))]  
public string SerialNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

## Slaves

Die Klammer um alle Angaben zur jeweiligen Kasse.

### Declaration

```
[JsonProperty("slaves", NullValueHandling = NullValueHandling.Ignore)]  
public List<Slave> Slaves { get; set; }
```

### Property Value

## Type Description

[List<Slave>](#)

## Software

### Declaration

```
[JsonProperty("software", NullValueHandling = NullValueHandling.Ignore)]  
public CashRegisterSoftware Software { get; set; }
```

### Property Value

## Type Description

[CashRegisterSoftware](#)

## VatDefinitions

Hier werden feste umsatzsteuerliche Referenzierungen vergeben. Die Steuersätze 1-999 sind fest vorgegeben bzw. reserviert und 1000-9999999999 stehen zur freien Verfügung

### Declaration

```
[JsonProperty("vat_definitions")]  
public List<VatDefinition> VatDefinitions { get; set; }
```

### Property Value

## Type Description

[List<VatDefinition>](#)

# Class CashRegisterSoftware

## Inheritance

[object](#)

CashRegisterSoftware

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegisterSoftware
```

## Properties

### Brand

Hier wird der Name der jeweiligen Kassensoftware aufgeführt.

#### Declaration

```
[JsonProperty("brand", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Brand { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Version

Hier erfolgt die Versionsangabe der jeweiligen Software.

#### Declaration

```
[JsonProperty("version", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Version { get; set; }
```

#### Property Value

### Type Description

[string](#)



# Class CashStatement

Alle Bewegungen einer Kasse werden im CashStatement dargestellt. Das Cashstatement einer Kasse stellt in einem Block die Geschäftsvorfälle und in einem zweiten Block die Zahlungsströme dar.

## Inheritance

[object](#)

CashStatement

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashStatement
```

## Properties

### BusinessCases

#### Declaration

```
[JsonProperty("business_cases", NullValueHandling = NullValueHandling.Ignore)]  
public List<BusinessCase> BusinessCases { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessCase&gt;</a>	

### Payment

Die Zahlart bildet den zweiten Block des CashStatement und untergliedert den gesamten Zahlungsstrom an einer Kasse in verschiedene Zahlarten.

#### Declaration

```
[JsonProperty("payment", NullValueHandling = NullValueHandling.Ignore)]  
public Payment Payment { get; set; }
```

#### Property Value

Type	Description
<a href="#">Payment</a>	

# Class ClosingCashRegister

## Inheritance

[object](#)

ClosingCashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClosingCashRegister
```

## Properties

### Id

#### Declaration

```
[JsonProperty("id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SlaveId

#### Declaration

```
[JsonProperty("slave_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string SlaveId { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class Company

Bildet die Klammer bezüglich aller Informationen zum Unternehmen. Ist es beabsichtigt, im laufenden Betrieb des Unternehmens Angaben innerhalb dieser Klammer zu ändern, so muss davor zwingend ein Kassenabschluss durchgeführt werden.

## Inheritance

[object](#)

Company

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Company
```

## Properties

### Address

#### Declaration

```
[JsonProperty("address")]  
public AddressStrict Address { get; set; }
```

#### Property Value

Type	Description
------	-------------

[AddressStrict](#)

### Location

Unter dem Klammerbegriff Abrechnungsort werden alle Daten zum Abrechnungsort der Kasse vorgehalten. Der Abrechnungsort kann eine Abteilungsbezeichnung, eine Filiale oder ein variabler Punkt sein.

#### Declaration

```
[JsonProperty("location")]  
public Location Location { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Location](#)

### Name

#### Declaration

```
[JsonProperty("name")]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**TaxNumber**

**Declaration**

```
[JsonProperty("tax_number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndecentMinMaxLengthCheckConverter))]  
public string TaxNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**VatIdNumber**

**Declaration**

```
[JsonProperty("vat_id number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]  
public string VatIdNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class Coordinate

added special converter to support old versions where coordinate not in json file hides serializer settings

## Inheritance

[object](#)

Coordinate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(CoordinateConverter))]  
public class Coordinate
```

## Properties

### CashPointClosing

Der Kassenabschluss wird ein-, mehrmals oder kalendertagübergreifend für eine Kasse erstellt.

#### Declaration

```
[JsonProperty("cash_point_closing")]  
public CashPointClosing CashPointClosing { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">CashPointClosing</a>	
----------------------------------	--

## Methods

### FromJson(string)

#### Declaration

```
public static Coordinate FromJson(string json)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	json	
------------------------	------	--

#### Returns

Type	Description
------	-------------

<a href="#">Coordinate</a>	
----------------------------	--

## Extension Methods

[Serialize.ToJson\(Coordinate\)](#)

# Enum CountryCode

Ländercode nach ISO 3166 alpha-3

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CountryCode
```

## Fields

### Name Description

Abw  
Afg  
Ago  
Aia  
Ala  
Alb  
And  
Ant  
Are  
Arg  
Arm  
Asm  
Ata  
Atf  
Atg  
Aus  
Aut  
Aze  
Bdi  
Bel  
Ben  
Bfa  
Bgd  
Bgr  
Bhr  
Bhs  
Bih  
Blr  
Blz  
Bmu  
Bol  
Bra  
Brb  
Bm  
Bt  
Bt  
Bt  
Bvt  
Bwa  
Caf  
Can  
Cck  
Che

**Name Description**

Chl  
Chn  
Civ  
Cmr  
Cod  
Cog  
Cok  
Col  
Com  
Cpv  
Cri  
Cub  
Cxr  
Cym  
Cyp  
Cze  
Deu  
Dji  
Dma  
Dnk  
Dom  
Dza  
Ecu  
Egy  
Eri  
Esh  
Esp  
Est  
Eth  
Fin  
Fji  
Flk  
Fra  
Fro  
Fsm  
Gab  
Gbr  
Geo  
Gha  
Gib  
Gin  
Glp  
Gmb  
Gnb  
Gnq  
Grc  
Grd  
Grl  
Gtm  
Guf  
Gum  
Guy



**Name Description**

Hkg  
Hnd  
Hnd  
Hrv  
Hti  
Hun  
Idn  
Ind  
Iot  
Irl  
Im  
Irq  
Isl  
Isr  
Ita  
Jam  
Jor  
Jpn  
Kaz  
Ken  
Kgz  
Khm  
Kir  
Kna  
Kor  
Kwt  
Lao  
Lbn  
Lbr  
Lby  
Lca  
Lie  
Lka  
Lso  
Ltu  
Lux  
Lva  
Mac  
Mar  
Mco  
Mda  
Mdg  
Mdv  
Mex  
Mhl  
Mkd  
Mli  
Mlt  
Mnr  
Mng  
Mnp  
Moz  
Mrt

**Name Description**

Msr  
Mtg  
Mus  
Mwi  
Mys  
  
Myt  
Nam  
Ncl  
Ner  
Nfk  
Nga  
Nic  
Niu  
Nld  
Nor  
Npl  
Nru  
Nzl  
Omn  
Pak  
Pan  
Pcn  
Per  
Phl  
Plw  
Png  
Pol  
Pri  
Prk  
Prt  
Pry  
Pse  
Pyf  
Qat  
Reu  
Rou  
Rus  
Rwa  
Sau  
Scg  
Sdn  
Sen  
Sgp  
Sgs  
Shn  
Sjm  
Slb  
Sle  
Slv  
Smr  
Som  
Spm

**Name Description**

Stp  
Sur  
Svk  
Svn  
Swe  
Swz  
Syc  
Syr  
Tca  
Tcd  
Tgo  
Tha  
Tjk  
Tkl  
Tkm  
Tls  
Ton  
Tto  
Tun  
Tur  
Tuv  
Twn  
Tza  
Uga  
Ukr  
Umi  
Ury  
Usa  
Uzb  
Vat  
Vct  
Ven  
Vgb  
Vir  
Vnm  
Vut  
Wlf  
Wsm  
Yem  
Zaf  
Zmb  
Zwe

# Class CsvExport

## Inheritance

[object](#)

CsvExport

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CsvExport
```

## Constructors

### CsvExport(ILogger)

#### Declaration

```
public CsvExport(ILogger logger)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">ILogger</a>	logger	
-------------------------	--------	--

## Methods

### Export(List<CashPointClosing>, string)

#### Declaration

```
public void Export(List<CashPointClosing> cashPointClosings, string exportPath)
```

#### Parameters

Type	Name	Description
<a href="#">List&lt;CashPointClosing&gt;</a>	cashPointClosings	
<a href="#">string</a>	exportPath	

### ExportToZipStream(List<CashPointClosing>, ZipOutputStream, string)

#### Declaration

```
public void ExportToZipStream(List<CashPointClosing> cashPointClosings, ZipOutputStream zipOutputStream, string folderPrefix)
```

#### Parameters

Type	Name	Description
<a href="#">List&lt;CashPointClosing&gt;</a>	cashPointClosings	
<a href="#">ZipOutputStream</a>	zipOutputStream	
<a href="#">string</a>	folderPrefix	

# Enum Currency

Jeder Kassenabschluss hat ausschließlich eine Basiswährung. Die Angabe der Basiswährung bezieht sich auf die Basiswährung der Kasse. Die Basiswährung wird dargestellt nach ISO 4217 (Spalte: ISO-Code) Bsp.: Euro = EUR; Alle Zahlungen in Fremdwährung auf dem Einzelbeleg werden im Kassenabschluss in die Basiswährung umgerechnet.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum Currency
```

## Fields

### Name Description

Aed  
Afn  
All  
Amd  
Ang  
Aoa  
Ars  
Aud  
Awg  
Azn  
Bam  
Bbd  
Bdt  
Bgn  
Bhd  
Bif  
Bmd  
Bnd  
Bob  
Bov  
Brl  
Bsd  
Btn  
Bwp  
Byn  
Byr  
Bzd  
Cad  
Cdf  
Che  
Chf  
Chw  
Clf  
Clp  
Cn  
Cop  
Cou  
Crc  
Cuc  
Cup

**Name Description**

Cve  
Czk  
Djf  
Dkk  
Dop  
Dzd  
Egp  
Ern  
Etb  
Eur  
Fjd  
Fkp  
Gbp  
Gel  
Ghs  
Gip  
Gmd  
Gnf  
Gtq  
Gyd  
Hkd  
Hnl  
Hrk  
Htg  
Huf  
Idr  
Ils  
Inr  
Iqd  
Irr  
Isk  
Jmd  
Jod  
Jpy  
Kes  
Kgs  
Khr  
Kmf  
Kpw  
Krw  
Kwd  
Kyd  
Kzt  
Lak  
Lbp  
Lkr  
Lrd  
Lsl  
Lyd  
Mad  
Mdl  
Mga  
Mkd

**Name Description**

Mmk

Mnt

Mop

Mro

Mur

Mvr

Mwk

Mxn

Mxv

Myr

Mzn

Nad

Ngn

Nio

Nok

Npr

Nzd

Omr

Pab

Pen

Pgk

Php

Pkr

Pln

Pyg

Qar

Ron

Rsd

Rub

Rwf

Sar

Sbd

Scr

Sdg

Sek

Sgd

Shp

Sll

Sos

Srd

Ssp

Std

Svc

Syp

Szl

Thb

Tjs

Tmt

Tnd

Top

Try

Ttd

**Name Description**

Twd

Tzs

Uah

Ugx

Usd

Uyi

Uyu

Uzs

Vef

Vnd

Vuv

Wst

Xaf

Xcd

Xof

Xpf

Xsu

Yer

Zar

Zmw

Zwl



# Class CustomFieldDefinitions

## Inheritance

[object](#)

CustomFieldDefinitions

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CustomFieldDefinitions
```

# Class CustomFields

sofern branchen- oder herstellerspezifische Informationen zusätzlich im Datensatz abgebildet werden sollen, für die jedoch keine geeigneten Positionen im Standard vorhanden sind, besteht die Möglichkeit, die Datensatzbeschreibung über benutzerdefinierte Positionen, sogenannte „Custom\_Fields“, zu erweitern. Aufgrund der individuellen Erweiterung der Taxonomie haben diese Felder lediglich deklaratorischen Charakter und werden keiner automatisierten Weiterverarbeitung zugefügt

## Inheritance

[object](#)  
CustomFields

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CustomFields
```

# Class Data

Bildet die Klammer um alle Bewegungsdaten eines Einzelbons. TransactionData unterscheiden die Daten in Gesamtbetrag mit Aufteilung in Zahlarten und umsatzsteuerliche Sachverhalte, Zusatznotizen, BonPositionen mit Artikel oder Warengruppenbezug und Bon Positionen ohne Artikel oder Warengruppenbezug.

## Inheritance

[object](#)

Data

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Data
```

## Properties

### AmountsPerVatId

Aufteilung des Gesamtbetrages einer Transaktion in die Einzelbeträge nach ausgewiesenen Umsatzsteuersätzen.

#### Declaration

```
[JsonProperty("amounts_per_vat_id", NullValueHandling = NullValueHandling.Ignore)]  
public List<VatAmountGrossAndNetReceipt> AmountsPerVatId { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<VatAmountGrossAndNetReceipt>](#)

### FullAmountInclVat

#### Declaration

```
[JsonProperty("full_amount_incl_vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal FullAmountInclVat { get; set; }
```

#### Property Value

Type	Description
------	-------------

[decimal](#)

## Lines

Jeder Bon der ein Geschäft an der Kasse definiert, wird als Transaktion bezeichnet. Eine Transaktion kann aus einer oder mehreren Geschäftsvorfällen bestehen. Diese Geschäftsvorfälle werden im Folgenden [lines] genannt. Die Taxonomie unterscheidet zwischen ItemLine und TypeLine. Die ItemLine steht für Geschäftsvorfälle, die einen Bezug zu einem Artikel, Produkt oder einer Warengruppe besitzen.

#### Declaration

```
[JsonProperty("lines", NullValueHandling = NullValueHandling.Ignore)]
public List<Line> Lines { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;Line&gt;</a>	

#### Notes

Unter [notes] werden entsprechende Zusatznotizen erfasst.

#### Declaration

```
[JsonProperty("notes", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(BraggadociousMinMaxLengthCheckConverter))]
public string Notes { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### PaymentTypes

#### Declaration

```
[JsonProperty("payment_types", NullValueHandling = NullValueHandling.Ignore)]
public List<DataPaymentType> PaymentTypes { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DataPaymentType&gt;</a>	

# Class DataPaymentType

Unterteilung der gezahlten Beträge nach Zahlart und Währung.

## Inheritance

[object](#)

DataPaymentType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataPaymentType
```

## Properties

### Amount

#### Declaration

```
[JsonProperty("amount")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal Amount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### CurrencyCode

#### Declaration

```
[JsonProperty("currency_code")]  
public Currency CurrencyCode { get; set; }
```

#### Property Value

#### Type Description

[Currency](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

#### Type Description

**Type Description**  
[CustomFields](#)

## ForeignAmount

### Declaration

```
[JsonProperty("foreign_amount", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal? ForeignAmount { get; set; }
```

### Property Value

**Type Description**  
[decimal?](#)

## Name

### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

### Property Value

**Type Description**  
[string](#)

## Type

### Declaration

```
[JsonProperty("type")]  
public TypeEnum Type { get; set; }
```

### Property Value

**Type Description**  
[TypeEnum](#)

# Class DateFormatConverter

## Inheritance

[object](#)

JsonConverter

DateTimeConverterBase

IsoDateTimeConverter

DateFormatConverter

## Inherited Members

[IsoDateTimeConverter.WriteJson\(JsonWriter, object, JsonSerializer\)](#)

[IsoDateTimeConverter.ReadJson\(JsonReader, Type, object, JsonSerializer\)](#)

IsoDateTimeConverter.DateTimeStyles

IsoDateTimeConverter.DateTimeFormat

IsoDateTimeConverter.Culture

[DateTimeConverterBase.CanConvert\(Type\)](#)

JsonConverter.CanRead

JsonConverter.CanWrite

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DateFormatConverter : IsoDateTimeConverter
```

## Constructors

### DateFormatConverter(string)

#### Declaration

```
public DateFormatConverter(string format)
```

#### Parameters

#### Type Name Description

[string](#) format

# Class FinishTransaction

## Inheritance

[object](#)

FinishTransaction

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FinishTransaction
```

## Properties

### LogTime

Die Log-Time der FinishTransaction-Operation der TSE nach ISO 8601 und RFC3339 - die Log-Time muss mindestens so genau wiedergegeben werden, wie sie die TSE zur Signierung verwendet hat

#### Declaration

```
[JsonProperty("log_time")]  
public DateTimeOffset LogTime { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTimeOffset</a>	
--------------------------------	--

### ProcessData

Optional können hier auch die process\_data in mit übergeben werden

#### Declaration

```
[JsonProperty("process_data", NullValueHandling = NullValueHandling.Ignore)]  
public string ProcessData { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### ProcessType

Der processType der FinishTransaction-Operation, z.B. 'Kassenbeleg-V1'

#### Declaration

```
[JsonProperty("process_type")]  
[JsonConverter(typeof(MinMaxLengthCheckConverter2))]  
public string ProcessType { get; set; }
```



**Property Value**

### **Type Description**

[string](#)

### **Signature**

Die Signatur der TSE für die FinishTransaction-Operation in Base64-Kodierung

### **Declaration**

```
[JsonProperty("signature")]  
public string Signature { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

### **SignatureCounter**

Der Signaturzähler der TSE für die FinishTransaction-Operation

### **Declaration**

```
[JsonProperty("signature_counter")]  
public long SignatureCounter { get; set; }
```

**Property Value**

### **Type Description**

[long](#)

# Class FluffyTse

Auf die Transaktion bezogene Daten der Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

## Inheritance

[object](#)

FluffyTse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FluffyTse
```

## Properties

### ErrorDescription

Bei TSE-Ausfall oder Fehler sollte hier eine aussagekräftige Fehlerbeschreibung eingetragen werden.

#### Declaration

```
[JsonProperty("error_description", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(MinMaxLengthCheckConverter1))]  
public string ErrorDescription { get; set; }
```

#### Property Value

### Type Description

[string](#)

### FinishTransaction

#### Declaration

```
[JsonProperty("finish_transaction", NullValueHandling = NullValueHandling.Ignore)]  
public FinishTransaction FinishTransaction { get; set; }
```

#### Property Value

Type	Description
------	-------------

[FinishTransaction](#)

### ModuleId

Die Id der für diese Transaktion verwendete TSE

#### Declaration

```
[JsonProperty("module_id", NullValueHandling = NullValueHandling.Ignore)]  
public long? ModuleId { get; set; }
```

**Property Value**

### **Type Description**

[long?](#)

## **StartTransaction**

### **Declaration**

```
[JsonProperty("start_transaction", NullValueHandling = NullValueHandling.Ignore)]  
public StartTransaction StartTransaction { get; set; }
```

**Property Value**

<b>Type</b>	<b>Description</b>
-------------	--------------------

<a href="#">StartTransaction</a>	
----------------------------------	--

## **TransactionNumber**

Die Transaktionsnummer der TSE-Transaktion

### **Declaration**

```
[JsonProperty("transaction_number", NullValueHandling = NullValueHandling.Ignore)]  
public long? TransactionNumber { get; set; }
```

**Property Value**

### **Type Description**

[long?](#)

# Class Item

Innerhalb des Geschäftsvorfalles bildet der item die Klammer um alle Artikelspezifischen Informationen.

## Inheritance

[object](#)

Item

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Item
```

## Properties

### BaseAmountsPerVatId

Der Artikelumsatz pro Steuersatz ohne Berücksichtigung von Rabatt und Aufschlag

#### Declaration

```
[JsonProperty("base_amounts_per_vat_id", NullValueHandling = NullValueHandling.Ignore)]  
public List<VatAmountOnly> BaseAmountsPerVatId { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<VatAmountOnly>](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CustomFields](#)

### DiscountsPerVatId

Der Artikelrabatt pro Steuersatz

#### Declaration

```
[JsonProperty("discounts_per_vat_id", NullValueHandling = NullValueHandling.Ignore)]  
public List<VatAmountOnly> DiscountsPerVatId { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<VatAmountOnly>](#)

### ExtraAmountsPerVatId

Der Artikelaufschlag pro Steuersatz

#### Declaration

```
[JsonProperty("extra_amounts_per_vat_id", NullValueHandling = NullValueHandling.Ignore)]  
public List<VatAmountOnly> ExtraAmountsPerVatId { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<VatAmountOnly>](#)

### GroupId

Eindeutige ID der Warengruppe, z.B. die Warengruppennummer

#### Declaration

```
[JsonProperty("group_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string GroupId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### GroupName

Bezeichnet den Namen der Warengruppe

#### Declaration

```
[JsonProperty("group_name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string GroupName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Gtin

Die Global Trade Item Number (GTIN) ist eine internationale, unverwechselbare Nummer zur Kennzeichnung von Produkten. Sie wird weltweit von der GS1 verwaltet und vergeben. Die früher übliche Bezeichnung European Article Number (EAN) wurde 2009 von der GTIN abgelöst.

#### Declaration

```
[JsonProperty("gtin", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Gtin { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Number

Bezeichnet eine eindeutige Nummer, mit der der Artikel, das Produkt bzw. die Warengruppe in den Systemen des Unternehmens gepflegt und verwaltet wird.

#### Declaration

```
[JsonProperty("number")]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string Number { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### PricePerUnit

PricePerUnit ist der Artikelgrundpreis für Menge `quantity_factor` der mit `quantity_measure` spezifizierten Maßeinheit.

#### Declaration

```
[JsonProperty("price_per_unit")]
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]
public decimal PricePerUnit { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

#### Quantity

#### Declaration

```
[JsonProperty("quantity")]
[JsonConverter(typeof(StickyMinMaxValueCheckConverter))]
public decimal Quantity { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

#### QuantityFactor

#### Declaration

```
[JsonProperty("quantity_factor", NullValueHandling = NullValueHandling.Ignore)]
public decimal? QuantityFactor { get; set; }
```

#### Property Value

#### Type Description

[decimal?](#)

#### QuantityMeasure

Measure bezeichnet die Maßeinheit. Ist das Feld Maßeinheit leer, so gilt automatisch die Einheit Stück

#### Declaration

```
[JsonProperty("quantity_measure", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string QuantityMeasure { get; set; }
```

#### Property Value

## Type Description

[string](#)

## SubItems

Die SubItems schaffen die Möglichkeit, die Zusammensetzung von verkauften Produkten bzw. Warengruppenbezeichnungen auf Artekebene zu erklären. Beispiel: Menü = Cola und Hamburger. Die SubItems müssen nicht gefüllt werden. Sie haben erklärenden Charakter und keine Aussagekraft bezüglich Preis und Umsatzsteuer.

## Declaration

```
[JsonProperty("sub_items", NullValueHandling = NullValueHandling.Ignore)]  
public List<SubItem> SubItems { get; set; }
```

## Property Value

Type	Description
------	-------------

<a href="#">List&lt;SubItem&gt;</a>	
-------------------------------------	--

# Class Line

## Inheritance

[object](#)

Line

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Line
```

## Properties

### BusinessCase

#### Declaration

```
[JsonProperty("business_case")]  
public BusinessCaseLine BusinessCase { get; set; }
```

#### Property Value

Type	Description
------	-------------

[BusinessCaseLine](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CustomFields](#)

### Id

#### Declaration

```
[JsonProperty("id")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

#### Property Value

Type	Description
------	-------------

[string](#)



## InHouse

Kennzeichnet einen in\_house Verkauf bzw. außerhausverkauf

### Declaration

```
[JsonProperty("in_house", NullValueHandling = NullValueHandling.Ignore)]  
public bool? InHouse { get; set; }
```

### Property Value

### Type Description

[bool?](#)

## Item

Innerhalb des Geschäftsvorfalles bildet der item die Klammer um alle Artikelspezifischen Informationen.

### Declaration

```
[JsonProperty("item", NullValueHandling = NullValueHandling.Ignore)]  
public Item Item { get; set; }
```

### Property Value

### Type Description

[Item](#)

## References

Referenzen auf externe Lieferscheine, Rechnungen oder Transaktionen eines Taxonomie-Kassenabschlusses

### Declaration

```
[JsonProperty("references", NullValueHandling = NullValueHandling.Ignore)]  
public List<Reference> References { get; set; }
```

### Property Value

Type	Description
------	-------------

[List<Reference>](#)

## SourceCashRegister

### Declaration

```
[JsonProperty("source_cash_register", NullValueHandling = NullValueHandling.Ignore)]  
public SourceCashRegister SourceCashRegister { get; set; }
```

### Property Value

Type	Description
------	-------------

[SourceCashRegister](#)

## Storno

Kennzeichnet einen Stornovorgang auf Line-Ebene.

### Declaration

```
[JsonProperty("storno")]  
public bool Storno { get; set; }
```

### Property Value

## Type Description

[bool](#)

## Text

Bezeichnung der Line bzw. Name des Items.

## Declaration

```
[JsonProperty("text")]  
[JsonConverter(typeof(MischievousMinMaxLengthCheckConverter))]  
public string Text { get; set; }
```

## Property Value

## Type Description

[string](#)

## VoucherId

## Declaration

```
[JsonProperty("voucher_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string VoucherId { get; set; }
```

## Property Value

## Type Description

[string](#)

# Class Location

Unter dem Klammerbegriff Abrechnungsort werden alle Daten zum Abrechnungsort der Kasse vorgehalten. Der Abrechnungsort kann eine Abteilungsbezeichnung, eine Filiale oder ein variabler Punkt sein.

## Inheritance

[object](#)

Location

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Location
```

## Properties

### Address

#### Declaration

```
[JsonProperty("address")]  
public AddressStrict Address { get; set; }
```

#### Property Value

Type	Description
------	-------------

[AddressStrict](#)

### CashRegister

Die Klammer um alle Angaben zur jeweiligen Kasse.

#### Declaration

```
[JsonProperty("cash_register")]  
public CashRegister CashRegister { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CashRegister](#)

### Name

#### Declaration

```
[JsonProperty("name")]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

#### Property Value

## Type Description

[string](#)

## VatIdNumber

### Declaration

```
[JsonProperty("vat_id_number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]  
public string VatIdNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

# Enum LogTimeFormat

Das von der TSE verwendete Format für die Log-Time - 'utcTime' = YYMMDDhhmmZ, 'utcTimeWithSeconds' = YYMMDDhhmmssZ, 'generalizedTime' = YYYYMMDDhhmmssZ, 'generalizedTimeWithMilliseconds' = YYYYMMDDhhmmss.fffZ

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum LogTimeFormat
```

## Fields

Name	Description
GeneralizedTime	
GeneralizedTimeWithMilliseconds	
UnixTime	
UtcTime	
UtcTimeWithSeconds	

# Class Module

## Inheritance

[object](#)

Module

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Module
```

## Properties

### Certificate

Das Zertifikat der TSE in Base64-Kodierung

#### Declaration

```
[JsonProperty("certificate")]  
public string Certificate { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Id

Die ID der TSE - wird nur zur Referenzierung innerhalb eines Kassenabschlusses verwendet.

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

### Type Description

[long](#)

### LogTimeFormat

Das von der TSE verwendete Format für die Log-Time - 'utcTime' = YYMMDDhhmmZ, 'utcTimeWithSeconds' = YYMMDDhhmmssZ, 'generalizedTime' = YYYYMMDDhhmmssZ, 'generalizedTimeWithMilliseconds' = YYYYMMDDhhmmss.fffZ

#### Declaration

```
[JsonProperty("log_time_format")]  
public LogTimeFormat LogTimeFormat { get; set; }
```

## Property Value

Type	Description
<a href="#">LogTimeFormat</a>	

## SerialNumber

Die Seriennummer der TSE (Entspricht laut TR-03153 Abschnit 7.5. dem Hashwert des im Zertifikat enthaltenen Schlüssels in Octet-String-Darstellung)

## Declaration

```
[JsonProperty("serial_number")]  
[JsonConverter(typeof(FriskyMinMaxLengthCheckConverter))]  
public string SerialNumber { get; set; }
```

## Property Value

### Type Description

[string](#)

## SignatureAlgorithm

Der von der TSE verwendete Signaturalgorithmus

## Declaration

```
[JsonProperty("signature_algorithm")]  
public SignatureAlgorithm SignatureAlgorithm { get; set; }
```

## Property Value

Type	Description
<a href="#">SignatureAlgorithm</a>	

# Class Payment

Die Zahlart bildet den zweiten Block des CashStatement und untergliedert den gesamten Zahlungsstrom an einer Kasse in verschiedene Zahlarten.

## Inheritance

[object](#)

Payment

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Payment
```

## Properties

### CashAmount

Der Gesamtbetrag aller Bareinnahmen und -ausgaben. Entnimmt der Unternehmer das Geld im Rahmen des Kassenabschlusses, so weist dieses Feld die 0 aus. Entnimmt der Unternehmer im Rahmen des Kassenabschlusses nicht das gesamte Geld, so weist dieses Feld den Kassenendbestand an Bargeld aus.

#### Declaration

```
[JsonProperty("cash_amount")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal CashAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### CashAmountsByCurrency

Eine Aufschlüsselung aller Bareinnahmen nach Wahrung

#### Declaration

```
[JsonProperty("cash_amounts_by_currency")]  
public List<CashAmountsByCurrency> CashAmountsByCurrency { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<CashAmountsByCurrency>](#)

### FullAmount

Der Gesamtbetrag stellt den Gesamtbetrag des Zahlungsstromes dar.

#### Declaration



```
[JsonProperty("full_amount")]
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]
public decimal FullAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**PaymentTypes**

**Declaration**

```
[JsonProperty("payment_types")]
public List<PaymentPaymentType> PaymentTypes { get; set; }
```

**Property Value**

**Type Description**

[List<PaymentPaymentType>](#)

# Class PaymentPaymentType

Jede Kasse muss unterscheiden können zwischen den Zahlarten Bar, Unbar, Keine. Bar kennzeichnet den Gesamtbetrag aller Barzahlungen. Unbar kennzeichnet die Summe aller Zahlungsströme aus Zahlarten die keine Bargeldzahlung darstellen. Verfügt das Kassensystem über die Möglichkeit, einzelne Zahlarten erfassen und darstellen zu können, so müssen diese dargestellt werden. Eine momentane Aufstellung der einzelnen Zahlarten ist hinterlegt. Es ist auch möglich, dass z. Bsp. Lieferscheine an der Kasse erfasst werden. Für diesen Fall wurde u.a. die Zahlart [Keine] eingeführt. Die Zahlart [Keine] darf mit keiner anderen Zahlart kombiniert werden.

## Inheritance

[object](#)

PaymentPaymentType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PaymentPaymentType
```

## Properties

### Amount

#### Declaration

```
[JsonProperty("amount")]
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]
public decimal Amount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### CurrencyCode

#### Declaration

```
[JsonProperty("currency_code")]
public Currency CurrencyCode { get; set; }
```

#### Property Value

#### Type Description

[Currency](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]
public CustomFields CustomFields { get; set; }
```

## Property Value

### Type Description

[CustomFields](#)

## ForeignAmount

### Declaration

```
[JsonProperty("foreign_amount", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal? ForeignAmount { get; set; }
```

## Property Value

### Type Description

[decimal?](#)

## Name

### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

## Property Value

### Type Description

[string](#)

## Type

### Declaration

```
[JsonProperty("type")]  
public TypeEnum Type { get; set; }
```

## Property Value

### Type Description

[TypeEnum](#)

# Enum ProcessDataEncoding

Das beim Erzeugen der process\_data verwendete Encoding - kann UTF-8 oder ASCII sein

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ProcessDataEncoding
```

## Fields

Name	Description
------	-------------

Ascii	
-------	--

Utf8	
------	--

# Class ProcessingFlags

Die Aktivierung dieses Feldes kennzeichnet, dass diese Kasse eine umsatzsteuerliche Zuordnung zum Zeitpunkt der Forderungsauflösung nicht treffen kann. Soll diese Einstellung geändert werden, so ist zuerst zwingend ein Kassensabschluss zu erstellen. Die umsatzsteuerliche Zuordnung erfolgt somit in jedem Falle zum Zeitpunkt der Lieferung und der Leistung.

## Inheritance

[object](#)

ProcessingFlags

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ProcessingFlags
```

## Properties

### UmsatzsteuerNichtErmittelbar

#### Declaration

```
[JsonProperty("UmsatzsteuerNichtErmittelbar", NullValueHandling = NullValueHandling.Ignore)]  
public bool? UmsatzsteuerNichtErmittelbar { get; set; }
```

#### Property Value

#### Type Description

[bool?](#)

# Class PurchaserAgency

## Inheritance

[object](#)

PurchaserAgency

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PurchaserAgency
```

## Properties

### Address

#### Declaration

```
[JsonProperty("address")]  
public AddressStrict Address { get; set; }
```

#### Property Value

Type	Description
------	-------------

[AddressStrict](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CustomFields](#)

### Id

Die Referenzierung aller Daten eines Agenturgebers für Agenturumsätze auf eine ID wird an dieser Position durchgeführt. Für die ID werden die Zahlen 1 - 9999999999 akzeptiert. Es werden nur ganze Zahlen akzeptiert. Die Reihenfolge muss in 1-er Schritten aufsteigend sein.

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

Type	Description
------	-------------

## Type Description

[long](#)

## Name

### Declaration

```
[JsonProperty("name")]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

### Property Value

## Type Description

[string](#)

## TaxNumber

### Declaration

```
[JsonProperty("tax_number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndecentMinMaxLengthCheckConverter))]  
public string TaxNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

## VatIdNumber

### Declaration

```
[JsonProperty("vat_id_number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]  
public string VatIdNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

# Class PurpleTse

Für den gesamten Kassenabschluss gültige Informationen zur Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

## Inheritance

[object](#)

PurpleTse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PurpleTse
```

## Properties

### Modules

Auflistung der im Kassenabschluss verwendeten TSEs

#### Declaration

```
[JsonProperty("modules")]  
public List<Module> Modules { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">List&lt;Module&gt;</a>	
------------------------------------	--

### ProcessDataEncoding

Das beim Erzeugen der process\_data verwendete Encoding - kann UTF-8 oder ASCII sein

#### Declaration

```
[JsonProperty("process_data_encoding")]  
public ProcessDataEncoding ProcessDataEncoding { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ProcessDataEncoding</a>	
-------------------------------------	--



# Class Reference

'Reference' beschreibt eine Referenz auf Taxonomie-Transaktion oder einen Lieferschein bzw. eine Rechnung aus einem Dritt-System

## Inheritance

[object](#)

Reference

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Reference
```

## Properties

### CashPointClosing

#### Declaration

```
[JsonProperty("cash_point_closing", NullValueHandling = NullValueHandling.Ignore)]  
public long? CashPointClosing { get; set; }
```

#### Property Value

#### Type Description

[long?](#)

### CashRegisterId

#### Declaration

```
[JsonProperty("cash_register_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string CashRegisterId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Date

#### Declaration

```
[JsonProperty("date", NullValueHandling = NullValueHandling.Ignore)]  
public DateTimeOffset? Date { get; set; }
```

#### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">DateTimeOffset?</a>	

## Id

### Declaration

```
[JsonProperty("id")]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

### Property Value

### Type Description

[string](#)

## Name

Name zur näheren Spezifikation der externen Referenz

### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

### Property Value

### Type Description

[string](#)

## Type

### Declaration

```
[JsonProperty("type")]  
public ReferenceType Type { get; set; }
```

### Property Value

Type	Description
<a href="#">ReferenceType</a>	

# Enum ReferenceType

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ReferenceType
```

## Fields

Name	Description
ExterneRechnung	
ExterneSonstige	
ExternerLieferschein	
Transaktion	

# Class Serialize

## Inheritance

[object](#)  
Serialize

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class Serialize
```

## Methods

### ToJson(Coordinate)

#### Declaration

```
public static string ToJson(this Coordinate self)
```

#### Parameters

Type	Name	Description
<a href="#">Coordinate</a>	self	

#### Returns

#### Type Description

[string](#)

# Enum SignatureAlgorithm

Der von der TSE verwendete Signaturalgorithmus

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SignatureAlgorithm
```

## Fields

Name	Description
EcdsaPlainSha224	
EcdsaPlainSha256	
EcdsaPlainSha3224	
EcdsaPlainSha3256	
EcdsaPlainSha3384	
EcdsaPlainSha3512	
EcdsaPlainSha384	
EcdsaPlainSha512	
EcsdsaPlainSha224	
EcsdsaPlainSha256	
EcsdsaPlainSha3224	
EcsdsaPlainSha3256	
EcsdsaPlainSha3384	
EcsdsaPlainSha3512	
EcsdsaPlainSha384	
EcsdsaPlainSha512	

# Class Slave

## Inheritance

[object](#)

Slave

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Slave
```

## Properties

### Brand

Bezeichnet die Marke des Kassengeräts.

#### Declaration

```
[JsonProperty("brand", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Brand { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CustomFields](#)

### Model

Bezeichnet das Modell der jeweiligen Kasse.

#### Declaration

```
[JsonProperty("model", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Model { get; set; }
```

#### Property Value

## Type Description

[string](#)

## SerialNumber

Seriennummer der jeweiligen Slave-Kasse.

### Declaration

```
[JsonProperty("serial_number")]  
[JsonConverter(typeof(AmbitiousMinMaxLengthCheckConverter))]  
public string SerialNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

## SlaveId

Die slave\_id ist zwingend anzugeben, wenn mehr als ein Terminal über eine id abgerechnet werden. Alle kassierenden Kassen müssen hier mit Ihrer id der abrechnenden Kasse zugeordnet werden.

### Declaration

```
[JsonProperty("slave_id")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string SlaveId { get; set; }
```

### Property Value

## Type Description

[string](#)

## Software

### Declaration

```
[JsonProperty("software", NullValueHandling = NullValueHandling.Ignore)]  
public SlaveSoftware Software { get; set; }
```

### Property Value

Type	Description
------	-------------

[SlaveSoftware](#)

# Class SlaveSoftware

## Inheritance

[object](#)

SlaveSoftware

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SlaveSoftware
```

## Properties

### Brand

Hier wird der Name der jeweiligen Kassensoftware aufgeführt.

#### Declaration

```
[JsonProperty("brand", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Brand { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Version

Hier erfolgt die Versionsangabe der jeweiligen Software.

#### Declaration

```
[JsonProperty("version", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Version { get; set; }
```

#### Property Value

### Type Description

[string](#)



# Class SourceCashRegister

## Inheritance

[object](#)

SourceCashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SourceCashRegister
```

## Properties

### Id

#### Declaration

```
[JsonProperty("id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SlaveId

#### Declaration

```
[JsonProperty("slave_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string SlaveId { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class StartTransaction

## Inheritance

[object](#)

StartTransaction

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class StartTransaction
```

## Properties

### LogTime

Die Log-Time der StartTransaction-Operation der TSE nach ISO 8601 und RFC3339 - die Log-Time muss mindestens so genau wiedergegeben werden, wie sie die TSE zur Signierung verwendet hat

### Declaration

```
[JsonProperty("log_time")]  
public DateTimeOffset LogTime { get; set; }
```

### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

# Class SubItem

## Inheritance

[object](#)

SubItem

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SubItem
```

## Properties

### AmountPerVatId

#### Declaration

```
[JsonProperty("amount_per_vat_id")]  
public VatAmountGrossOrNet AmountPerVatId { get; set; }
```

#### Property Value

Type	Description
<a href="#">VatAmountGrossOrNet</a>	

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
<a href="#">CustomFields</a>	

### GroupId

Eindeutige ID der Warengruppe, z.B. die Warengruppennummer

#### Declaration

```
[JsonProperty("group_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string GroupId { get; set; }
```

#### Property Value

#### Type Description

## Type Description

[string](#)

## GroupName

### Declaration

```
[JsonProperty("group_name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string GroupName { get; set; }
```

### Property Value

## Type Description

[string](#)

## Gtin

### Declaration

```
[JsonProperty("gtin", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Gtin { get; set; }
```

### Property Value

## Type Description

[string](#)

## Name

### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

### Property Value

## Type Description

[string](#)

## Number

### Declaration

```
[JsonProperty("number")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Number { get; set; }
```

### Property Value

## Type Description

[string](#)

## Quantity

### Declaration

```
[JsonProperty("quantity")]  
[JsonConverter(typeof(StickyMinMaxValueCheckConverter))]  
public decimal Quantity { get; set; }
```

### Property Value

## Type Description

[decimal](#)

## QuantityFactor

### Declaration

```
[JsonProperty("quantity_factor", NullValueHandling = NullValueHandling.Ignore)]  
public decimal? QuantityFactor { get; set; }
```

### Property Value

## Type Description

[decimal?](#)

## QuantityMeasure

Measure bezeichnet die Maßeinheit. Ist das Feld Maßeinheit leer, so gilt automatisch die Einheit Stück

### Declaration

```
[JsonProperty("quantity_measure", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string QuantityMeasure { get; set; }
```

### Property Value

## Type Description

[string](#)

# Class TaxonomyFileStore

Saves the taxonomy files to disk and handles unfinished cash point closings

## Inheritance

[object](#)

[LoggingBase](#)

[TaxonomyStore<TaxonomyFileStoreConfiguration>](#)

[TaxonomyFileStore](#)

## Inherited Members

[TaxonomyStore<TaxonomyFileStoreConfiguration>.Configuration](#)

[LoggingBase.\\_logger](#)

[LoggingBase.\\_logSource](#)

[LoggingBase.LogCritical\(string, params object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogError\(string, params object\[\]\)](#)

[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogWarning\(string, params object\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TaxonomyFileStore : TaxonomyStore<TaxonomyFileStoreConfiguration>
```

## Constructors

### TaxonomyFileStore(ILogger, TaxonomyFileStoreConfiguration)

Constructor.

#### Declaration

```
public TaxonomyFileStore(ILogger logger, TaxonomyFileStoreConfiguration configuration)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	An instance of an logger

[TaxonomyFileStoreConfiguration](#) configuration the configuration for the storage

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>configuration</code> is set to null.

## Methods

### CleanCashPointClosing(Guid, int)

cleans / removes all transactions and the cash point closing header

#### Declaration

```
public override void CleanCashPointClosing(Guid uniqueClientId, int cashPointClosingNr)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

<a href="#">int</a>	cashPointClosingNr	The cash point closing number where the header should be stored
---------------------	--------------------	---

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.CleanCashPointClosing\(Guid, int\)](#)

#### GetOpenCashPointClosingNumber(Guid)

Returns the a cash point closing number

#### Declaration

```
public int GetOpenCashPointClosingNumber(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

#### Returns

Type	Description
------	-------------

<a href="#">int</a>	CashPointClosingNumber of an cash point closing which isn't finalized if nothing is open it returns the next valid number
---------------------	---

#### LoadCashPointClosing(Guid, int)

Load cash point closing

#### Declaration

```
public CashPointClosing LoadCashPointClosing(Guid uniqueClientId, int cashPointClosingNr)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

<a href="#">int</a>	cashPointClosingNr	The cash point closing number which should be loaded
---------------------	--------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">CashPointClosing</a>	The loaded cash point closing
----------------------------------	-------------------------------

#### LoadCashPointClosingHeader(Guid, int)

Loads a cash point closing header

#### Declaration

```
public override CashPointClosingHead LoadCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

<a href="#">int</a>	cashPointClosingNr	The cash point closing number to load
---------------------	--------------------	---------------------------------------

## Returns

Type	Description
------	-------------

[CashPointClosingHead](#) the cash point closing header

## Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.LoadCashPointClosingHeader\(Guid, int\)](#)

**LoadCashPointClosingSecurity(Guid, int)**

Loads a cash point closing security

## Declaration

```
public override CashPointClosingSecurity LoadCashPointClosingSecurity(Guid uniqueClientId, int cashPointClosingNr)
```

## Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[int](#) cashPointClosingNr The cash point closing number to load

## Returns

Type	Description
------	-------------

[CashPointClosingSecurity](#) the cash point closing security

## Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.LoadCashPointClosingSecurity\(Guid, int\)](#)

**LoadCashPointClosings(Guid, DateTime, DateTime)**

Loads all cashpoint closings between the given dates

## Declaration

```
public override List<CashPointClosing> LoadCashPointClosings(Guid uniqueClientId, DateTime startDate, DateTime endDateTime)
```

## Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[DateTime](#) startDate Date with the start date (will be checked >= )

[DateTime](#) endDateTime Date with the end date

## Returns

Type	Description
------	-------------

[List<CashPointClosing>](#) A list of cash point closings

## Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.LoadCashPointClosings\(Guid, DateTime, DateTime\)](#)

**LoadLastTransaction(Guid, int)**

Loads the last transaction of a cash point closing



#### Declaration

```
public Transaction LoadLastTransaction(Guid uniqueClientId, int cashPointClosingNr)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cash point closing number from which the transaction should be loaded

#### Returns

Type	Description
<a href="#">Transaction</a>	The last transaction of the cash point closing

#### LoadTransactionReferences(Guid)

loads the transaction references

#### Declaration

```
public override List<Reference> LoadTransactionReferences(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client

#### Returns

Type	Description
<a href="#">List&lt;Reference&gt;</a>	A list of all References, or null if file doesn't exist.

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.LoadTransactionReferences\(Guid\)](#)

#### LoadTransactions(Guid, int)

Returns all Transactions of an cash point closing

#### Declaration

```
public override List<Transaction> LoadTransactions(Guid uniqueClientId, int cashPointClosingNr)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The number of the cashpointClosing to load

#### Returns

Type	Description
<a href="#">List&lt;Transaction&gt;</a>	Returns a list of transaction from the cash point closing nr.

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.LoadTransactions\(Guid, int\)](#)

### LoadTseTar(Guid, int, string)

Loads a Tse Tar to a stream

#### Declaration

```
public override Stream LoadTseTar(Guid uniqueClientId, int cashPointClosingNr, string tseSerial)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cash point closing number which should be loaded
<a href="#">string</a>	tseSerial	The serial of the tse

#### Returns

Type	Description
<a href="#">Stream</a>	Stream with the data of the tar file

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.LoadTseTar\(Guid, int, string\)](#)

### StoreCashPointClosing(Guid, CashPointClosing)

Stores a cashpoint closing

#### Declaration

```
public override void StoreCashPointClosing(Guid uniqueClientId, CashPointClosing cashPointClosing)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">CashPointClosing</a>	cashPointClosing	The cash point closing to store

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.StoreCashPointClosing\(Guid, CashPointClosing\)](#)

### StoreCashPointClosingHeader(Guid, int, CashPointClosingHeader)

stores a cash point closing header

#### Declaration

```
public override void StoreCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr, CashPointClosingHeader header)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cash point closing number where the header should be stored
<a href="#">CashPointClosingHeader</a>	header	the head object to store

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.StoreCashPointClosingHeader\(Guid, int, CashPointClosingHead\)](#)

### StoreCashPointClosingSecurity(Guid, int, CashPointClosingSecurity)

stores a cash point closing header

#### Declaration

```
public override void StoreCashPointClosingSecurity(Guid uniqueClientId, int cashPointClosingNr, CashPointClosingSecurity security)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cash point closing number where the header should be stored
<a href="#">CashPointClosingSecurity</a>	security	the cash point closing security object within the tse modules

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.StoreCashPointClosingSecurity\(Guid, int, CashPointClosingSecurity\)](#)

### StoreTransaction(Guid, int, Transaction)

Stores a transaction to the storage

#### Declaration

```
public override void StoreTransaction(Guid uniqueClientId, int cashPointClosingNr, Transaction transaction)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The number of the cashpoint closing to store
<a href="#">Transaction</a>	transaction	The transaction to store

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.StoreTransaction\(Guid, int, Transaction\)](#)

### StoreTransactionReferences(Guid, List<Reference>)

stores the reference list to a zip file

#### Declaration

```
public override void StoreTransactionReferences(Guid uniqueClientId, List<Reference> references)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	
<a href="#">List&lt;Reference&gt;</a>	references	

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.StoreTransactionReferences\(Guid, List<Reference>\)](#)

#### Remarks

removes the whole zip file if exists and creates a new one!

### StoreTseTar(Guid, int, string, Stream)

Stores a Tse Tar stream

#### Declaration

```
public override void StoreTseTar(Guid uniqueClientId, int cashPointClosingNr, string tseSerial, Stream stream)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cashpoint closing number
<a href="#">string</a>	tseSerial	The serial of the tse
<a href="#">Stream</a>	stream	The stream with the data to store

#### Overrides

[TaxonomyStore<TaxonomyFileStoreConfiguration>.StoreTseTar\(Guid, int, string, Stream\)](#)

# Class TaxonomyStore<T>

Represents the local and cloud storage provider for Taxonomy Germany (DSFIn-VK, DFKA).

## Inheritance

[object](#)  
[LoggingBase](#)  
[TaxonomyStore<T>](#)  
[TaxonomyFileStore](#)

## Inherited Members

[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class TaxonomyStore<T> : LoggingBase where T : TaxonomyStoreConfiguration
```

## Type Parameters

### Name Description

T

## Constructors

### TaxonomyStore(ILogger, string, T)

Constructor.

## Declaration

```
protected TaxonomyStore(ILogger logger, string logSource, T configuration)
```

## Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	An instance of an logger
<a href="#">string</a>	logSource	Name of the logging source
T	configuration	the configuration for the storage

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>configuration</code> is set to null.

## Fields

## Configuration

the configuration type of TaxonomyStoreConfiguration

**Declaration**

protected readonly T Configuration

**Field Value**

**Type Description**

T

**Methods**

**CleanCashPointClosing(Guid, int)**

cleans / removes all transactions and the cash point closing header

**Declaration**

```
public abstract void CleanCashPointClosing(Guid uniqueClientId, int cashPointClosingNr)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

<a href="#">int</a>	cashPointClosingNr	The cash point closing number where the header should be stored
---------------------	--------------------	---

**LoadCashPointClosingHeader(Guid, int)**

Loads a cash point closing header

**Declaration**

```
public abstract CashPointClosingHead LoadCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

<a href="#">int</a>	cashPointClosingNr	The cash point closing number to load
---------------------	--------------------	---------------------------------------

**Returns**

Type	Description
------	-------------

<a href="#">CashPointClosingHead</a>	the cash point closing header
--------------------------------------	-------------------------------

**LoadCashPointClosingSecurity(Guid, int)**

Loads a cash point closing security

**Declaration**

```
public abstract CashPointClosingSecurity LoadCashPointClosingSecurity(Guid uniqueClientId, int cashPointClosingNr)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

<a href="#">int</a>	cashPointClosingNr	The cash point closing number to load
---------------------	--------------------	---------------------------------------

**Returns**

Type	Description
------	-------------

[CashPointClosingSecurity](#) the cash point closing security

### LoadCashPointClosings(Guid, DateTime, DateTime)

Loads all cashpoint closings between the given dates

#### Declaration

```
public abstract List<CashPointClosing> LoadCashPointClosings(Guid uniqueClientId, DateTime startDate, DateTime endDateTime)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[DateTime](#) startDate Date with the start date (will be checked >=)

[DateTime](#) endDateTime Date with the end date

#### Returns

Type	Description
------	-------------

[List<CashPointClosing>](#) A list of cash point closings

### LoadTransactionReferences(Guid)

loads the transaction references

#### Declaration

```
public abstract List<Reference> LoadTransactionReferences(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

#### Returns

Type	Description
------	-------------

[List<Reference>](#) A list of all References, or null if file doesn't exist.

### LoadTransactions(Guid, int)

Returns all Transactions of an cash point closing

#### Declaration

```
public abstract List<Transaction> LoadTransactions(Guid uniqueClientId, int cashPointClosingNr)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[int](#) cashPointClosingNr The number of the cashpointClosing to load

#### Returns

Type	Description
------	-------------

[List<Transaction>](#) Returns a list of transaction from the cash point closing nr.

### LoadTseTar(Guid, int, string)

Loads a Tse Tar to a stream

#### Declaration

```
public abstract Stream LoadTseTar(Guid uniqueClientId, int cashPointClosingNr, string tseSerial)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[int](#) cashPointClosingNr The cash point closing number which should be loaded

[string](#) tseSerial The serial of the tse

#### Returns

Type	Description
------	-------------

[Stream](#) Stream with the data of the tar file

### StoreCashPointClosing(Guid, CashPointClosing)

Stores a cashpoint closing

#### Declaration

```
public abstract void StoreCashPointClosing(Guid uniqueClientId, CashPointClosing cashPointClosing)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[CashPointClosing](#) cashPointClosing The cash point closing to store

### StoreCashPointClosingHeader(Guid, int, CashPointClosingHead)

stores a cash point closing header

#### Declaration

```
public abstract void StoreCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr, CashPointClosingHead header)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) uniqueClientId The unique id of the client

[int](#) cashPointClosingNr The cash point closing number where the header should be stored

[CashPointClosingHead](#) header the head object to store

### StoreCashPointClosingSecurity(Guid, int, CashPointClosingSecurity)

stores a cash point closing security



#### Declaration

```
public abstract void StoreCashPointClosingSecurity(Guid uniqueClientId, int cashPointClosingNr, CashPointClosingSecurity security)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cash point closing number where the header should be stored
<a href="#">CashPointClosingSecurity</a>	security	the cash point closing security object within the tse modules

#### StoreTransaction(Guid, int, Transaction)

Stores a transaction to the storage

#### Declaration

```
public abstract void StoreTransaction(Guid uniqueClientId, int cashPointClosingNr, Transaction transaction)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The number of the cashpoint closing to store
<a href="#">Transaction</a>	transaction	The transaction to store

#### StoreTransactionReferences(Guid, List<Reference>)

stores the reference list to a zip file

#### Declaration

```
public abstract void StoreTransactionReferences(Guid uniqueClientId, List<Reference> references)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	
<a href="#">List&lt;Reference&gt;</a>	references	

#### Remarks

removes the whole zip file if exists and creates a new one!

#### StoreTseTar(Guid, int, string, Stream)

Stores a Tse Tar stream

#### Declaration

```
public abstract void StoreTseTar(Guid uniqueClientId, int cashPointClosingNr, string tseSerial, Stream stream)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique id of the client
<a href="#">int</a>	cashPointClosingNr	The cashpoint closing number
<a href="#">string</a>	tseSerial	The serial of the tse

Type	Name	Description
<a href="#">Stream</a>	stream	The stream with the data to store

# Class Transaction

Bildet die Klammer um eine einzige Einzelbewegung. Ist also der Einzelbeleg bzw. der Einzelbon. Auch die Transaktion gliedert sich in Kopf- und Bewegungsdaten.

## Inheritance

[object](#)

Transaction

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Transaction
```

## Properties

### Data

Bildet die Klammer um alle Bewegungsdaten eines Einzelbons. TransactionData unterscheiden die Daten in Gesamtbetrag mit Aufteilung in Zahlarten und umsatzsteuerliche Sachverhalte, Zusatznotizen, BonPositionen mit Artikel oder Warengruppenbezug und Bon Positionen ohne Artikel oder Warengruppenbezug.

### Declaration

```
[JsonProperty("data")]  
public Data Data { get; set; }
```

### Property Value

### Type Description

[Data](#)

### Head

Der Transaktionskopf beinhaltet alle Stammdaten zur Einzelbewegung.

### Declaration

```
[JsonProperty("head")]  
public TransactionHead Head { get; set; }
```

### Property Value

Type	Description
------	-------------

[TransactionHead](#)

## Security

Container für Daten von Sicherheitseinrichtungen, die für eine einzelne Transaktion gelten.

**Declaration**

```
[JsonProperty("security", NullValueHandling = NullValueHandling.Ignore)]  
public TransactionSecurity Security { get; set; }
```

**Property Value**

Type	Description
<a href="#">TransactionSecurity</a>	

# Class TransactionHead

Der Transaktionskopf beinhaltet alle Stammdaten zur Einzelbewegung.

## Inheritance

[object](#)

TransactionHead

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionHead
```

## Properties

### AllocationGroups

#### Declaration

```
[JsonProperty("allocation_groups", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(DecodeArrayConverter))]  
public List<string> AllocationGroups { get; set; }
```

#### Property Value

##### Type Description

[List<string>](#)

### Buyer

Bildet die Klammer um alle Daten zu einem Käufer. Hintergrund: Ab einem Rechnungsbetrag von 200,00€ ist die sogenannte Kleinbetragsgrenze einer Rechnung überschritten. Dann muss die Käuferadresse erfasst werden. Dazu dienen die Felder unter der Klammer [buyer]. Auch hier gibt es einen Namen und die entsprechende Adresse.

#### Declaration

```
[JsonProperty("buyer", NullValueHandling = NullValueHandling.Ignore)]  
public Buyer Buyer { get; set; }
```

#### Property Value

##### Type Description

[Buyer](#)

### ClosingCashRegister

#### Declaration

```
[JsonProperty("closing_cash_register", NullValueHandling = NullValueHandling.Ignore)]  
public ClosingCashRegister ClosingCashRegister { get; set; }
```

## Property Value

Type	Description
<a href="#">ClosingCashRegister</a>	

## CustomFields

### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

## Property Value

Type	Description
<a href="#">CustomFields</a>	

## Id

Id der Transaktion, die vom Kassensystem automatisiert und unabänderlich zugewiesen wird. Die Id muss innerhalb eines Kassenabschlusses eindeutig sein.

### Declaration

```
[JsonProperty("id")]  
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

## Property Value

### Type Description

[string](#)

## Name

Optionaler Name der Transaktion (zwingend erforderlich für Transaktionstyp AVSonstige!)

### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

## Property Value

### Type Description

[string](#)

## Number

Die Bonnummer ist im Kassenabschluss fortlaufend zu führen. Sie kann sich jedoch im Lebenszyklus einer Kasse wiederholen.

### Declaration

```
[JsonProperty("number")]  
public long Number { get; set; }
```

## Property Value

### Type Description

[long](#)

## References

Referenzen auf externe Lieferscheine, Rechnungen oder Transaktionen eines Taxonomie-Kassenabschlusses

#### Declaration

```
[JsonProperty("references", NullValueHandling = NullValueHandling.Ignore)]  
public List<Reference> References { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;Reference&gt;</a>	

#### Storno

Kenzeichnet einen globalen Stornovorgang auf Belegebene.

#### Declaration

```
[JsonProperty("storno")]  
public bool Storno { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### TimestampEnd

Der Ende-Zeitstempel bezeichnet den Zeitpunkt des Abschlusses einer Einzelbewegung (Transaction). Er ist der Zeitstempel, der die Ausstellung der Einzelbewegung dokumentiert. Nach §14(4) UStG ist das Ausstellungsdatum eine Pflichtangabe auf der Rechnung. Aus diesem Grund muss der Ende-Zeitstempel für jede Einzelbewegung vorhanden sein.

#### Declaration

```
[JsonProperty("timestamp_end")]  
public DateTimeOffset TimestampEnd { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

#### TimestampStart

Der Start-Zeitstempel bezeichnet den Zeitpunkt der ersten Erfassung in einer Einzelbewegung(Transaction). Kassen, die diesen Zeitstempel vergeben, müssen dies auch in der Taxonomie dokumentieren. Kassen, die dies nicht leisten können, füllen dieses Feld mit dem Wert aus timestamp\_end.

#### Declaration

```
[JsonProperty("timestamp_start")]  
public DateTimeOffset TimestampStart { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

#### Type

#### Declaration

```
[JsonProperty("type")]  
public TransactionType Type { get; set; }
```

## Property Value

Type	Description
<a href="#">TransactionType</a>	

## User

Der Benutzer ist die Person, die offiziell für die Abrechnung der Einzelbewegung an der Kasse verantwortlich ist. (Bsp.: Bedienung erfasst bzw. boniert, User kassiert)

## Declaration

```
[JsonProperty("user", NullValueHandling = NullValueHandling.Ignore)]  
public User User { get; set; }
```

## Property Value

Type	Description
<a href="#">User</a>	



# Class TransactionSecurity

Container für Daten von Sicherheitseinrichtungen, die für eine einzelne Transaktion gelten.

## Inheritance

[object](#)

TransactionSecurity

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionSecurity
```

## Properties

### Tse

Auf die Transaktion bezogene Daten der Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

### Declaration

```
[JsonProperty("tse", NullValueHandling = NullValueHandling.Ignore)]  
public FluffyTse Tse { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">FluffyTse</a>	
---------------------------	--

# Enum TransactionType

Der Transaktionstyp ordnet und unterteilt alle Vorgänge in Geschäftsvorfälle (Beleg) und andere Vorgänge. Durch diese Zuordnung wird auch die Weiterverarbeitung im Kassenabschluss gesteuert. Ausschließlich Einzelbewegungen mit dem Transaktionstyp Beleg besitzen Relevanz für den Kassenabschluss. Im Beleg werden z. Bsp.: Rechnungen, Lieferscheine, Korrekturen etc. dargestellt. Werden Einzelbewegungen aus anderen Grundaufzeichnungssystemen des Unternehmens heraus weiterverarbeitet, so dürfen diese Einzelbewegungen nicht den Transaktionstypen Beleg erhalten

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TransactionType
```

## Fields

Name	Description
AvBelegabbruch	
AvBelegstorno	
AvBestellung	
AvRechnung	
AvSachbezug	
AvSonstige	
AvTraining	
AvTransfer	
Beleg	

# Enum TypeEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TypeEnum
```

## Fields

Name	Description
Bar	
EcKarte	
ElZahlungsdienstleister	
GuthabenKarte	
Keine	
Kreditkarte	
Unbar	

# Class User

Der Benutzer ist die Person, die offiziell für die Abrechnung der Einzelbewegung an der Kasse verantwortlich ist. (Bsp.: Bedienung erfasst bzw. boniert, User kassiert)

## Inheritance

[object](#)

User

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class User
```

## Properties

### Id

Der Benutzer hat eine unternehmensinterne Kennung.

### Declaration

```
[JsonProperty("id")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Id { get; set; }
```

### Property Value

### Type Description

[string](#)

### Name

Der Benutzer ist mit seinem Namen im Kassensystem hinterlegt.

### Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class ValidationHelper

## Inheritance

[object](#)

ValidationHelper

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class ValidationHelper
```

## Methods

### GetCountryCode(string)

returns a CountryCode value if string can parsed otherwise null

#### Declaration

```
public static CountryCode? GetCountryCode(this string countryCode)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	countryCode	
------------------------	-------------	--

#### Returns

Type	Description
------	-------------

<a href="#">CountryCode?</a>	CountryCode if correct otherwise null
------------------------------	---------------------------------------

### GetCurrency(string)

returns a Currency value if string can parsed otherwise null

#### Declaration

```
public static Currency? GetCurrency(this string currency)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	currency	
------------------------	----------	--

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[Currency?](#) Currency if correct otherwise null

### **GetLogTimeFormat(string)**

returns a LogTimeFormat value if string can parsed otherwise null

#### **Declaration**

```
public static LogTimeFormat? GetLogTimeFormat(this string logTimeFormat)
```

#### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	logTimeFormat	
------------------------	---------------	--

#### **Returns**

Type	Description
------	-------------

[LogTimeFormat?](#) LogTimeFormat if correct otherwise null

### **GetSignatureAlgorithm(string)**

returns a SignatureAlgorithm value if string can parsed otherwise null

#### **Declaration**

```
public static SignatureAlgorithm? GetSignatureAlgorithm(this string signatureAlgorithm)
```

#### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	signatureAlgorithm	
------------------------	--------------------	--

#### **Returns**

Type	Description
------	-------------

[SignatureAlgorithm?](#) SignatureAlgorithm algorithm if correct otherwise null

# Class VatAmountGrossAndNet

Einem Geschäftsvorfall können ein oder mehrere Beträge getrennt nach Umsatzsteuersätzen zugewiesen werden.

## Inheritance

[object](#)

VatAmountGrossAndNet

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class VatAmountGrossAndNet
```

## Properties

### ExclVat

#### Declaration

```
[JsonProperty("excl_vat")]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal ExclVat { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### Id

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

#### Type Description

[long](#)

### InclVat

#### Declaration

```
[JsonProperty("incl_vat")]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal InclVat { get; set; }
```

#### Property Value

#### Type Description

**Type Description**

[decimal](#)

**Vat****Declaration**

```
[JsonProperty("vat")]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal Vat { get; set; }
```

**Property Value****Type Description**

[decimal](#)



# Class VatAmountGrossAndNetReceipt

Aufteilung des Gesamtbetrages einer Transaktion in die Einzelbeträge nach ausgewiesenen Umsatzsteuersätzen.

## Inheritance

[object](#)

VatAmountGrossAndNetReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class VatAmountGrossAndNetReceipt
```

## Properties

### ExclVat

#### Declaration

```
[JsonProperty("excl_vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal ExclVat { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### Id

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

#### Type Description

[long](#)

### InclVat

#### Declaration

```
[JsonProperty("incl_vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal InclVat { get; set; }
```

#### Property Value

#### Type Description

## Type Description

[decimal](#)

## Vat

### Declaration

```
[JsonProperty("vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public decimal Vat { get; set; }
```

### Property Value

## Type Description

[decimal](#)

# Class VatAmountGrossOrNet

## Inheritance

[object](#)

VatAmountGrossOrNet

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class VatAmountGrossOrNet
```

## Properties

### ExclVat

#### Declaration

```
[JsonProperty("excl_vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal? ExclVat { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

### Id

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

##### Type Description

[long](#)

### InclVat

#### Declaration

```
[JsonProperty("incl_vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal? InclVat { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

## Vat

### Declaration

```
[JsonProperty("vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal? Vat { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">decimal?</a>	
--------------------------	--

# Class VatAmountOnly

## Inheritance

[object](#)

VatAmountOnly

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class VatAmountOnly
```

## Properties

### ExclVat

#### Declaration

```
[JsonProperty("excl_vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal? ExclVat { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

### Id

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

##### Type Description

[long](#)

### InclVat

#### Declaration

```
[JsonProperty("incl_vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal? InclVat { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

## Vat

### Declaration

```
[JsonProperty("vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public decimal? Vat { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">decimal?</a>	
--------------------------	--

# Class VatDefinition

## Inheritance

[object](#)  
VatDefinition

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class VatDefinition
```

## Properties

### CustomFields

#### Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">CustomFields</a>	
------------------------------	--

### Description

#### Declaration

```
[JsonProperty("description", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(CunningMinMaxLengthCheckConverter))]  
public string Description { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### Id

#### Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">long</a>	
----------------------	--

## Percentage

### Declaration

```
[JsonProperty("percentage")]  
[JsonConverter(typeof(TentacledMinMaxValueCheckConverter))]  
public decimal Percentage { get; set; }
```

### Property Value

### Type Description

[decimal](#)



# Namespace RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml

## Classes

[DataSet](#)

[DataSetDataSupplier](#)

[DataSetMedia](#)

[DataSetMediaTable](#)

[DataSetMediaTableRange](#)

[DataSetMediaTableVariableLength](#)

[DataSetMediaTableVariableLengthVariableColumn](#)

[DataSetMediaTableVariableLengthVariableColumnNumeric](#)

# Class DataSet

## Inheritance

[object](#)  
DataSet

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSet
```

## Properties

### DataSupplier

#### Declaration

```
public DataSetDataSupplier DataSupplier { get; set; }
```

#### Property Value

Type	Description
<a href="#">DataSetDataSupplier</a>	

### Media

#### Declaration

```
public DataSetMedia Media { get; set; }
```

#### Property Value

Type	Description
<a href="#">DataSetMedia</a>	

### Version

#### Declaration

```
public float Version { get; set; }
```

#### Property Value

Type	Description
<a href="#">float</a>	

# Class DataSetDataSupplier

## Inheritance

[object](#)

DataSetDataSupplier

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetDataSupplier
```

## Properties

### Comment

#### Declaration

```
public string Comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Location

#### Declaration

```
public string Location { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Name

#### Declaration

```
public string Name { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class DataSetMedia

## Inheritance

[object](#)

DataSetMedia

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetMedia
```

## Properties

### Name

#### Declaration

```
public string Name { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Table

#### Declaration

```
public DataSetMediaTable[] Table { get; set; }
```

#### Property Value

Type	Description
<a href="#">DataSetMediaTable[]</a>	

# Class DataSetMediaTable

## Inheritance

[object](#)

DataSetMediaTable

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetMediaTable
```

## Properties

### DecimalSymbol

#### Declaration

```
public string DecimalSymbol { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Description

#### Declaration

```
public string Description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### DigitGroupingSymbol

#### Declaration

```
public string DigitGroupingSymbol { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Name

#### Declaration

```
public string Name { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Range**

**Declaration**

```
public DataSetMediaTableRange Range { get; set; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">DataSetMediaTableRange</a>	
--	--

**URL**

**Declaration**

```
public string URL { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**UTF8**

**Declaration**

```
public string UTF8 { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**VariableLength**

**Declaration**

```
public DataSetMediaTableVariableLength VariableLength { get; set; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">DataSetMediaTableVariableLength</a>	
---	--

# Class DataSetMediaTableRange

## Inheritance

[object](#)

DataSetMediaTableRange

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetMediaTableRange
```

## Properties

### From

#### Declaration

```
public sbyte From { get; set; }
```

#### Property Value

### Type Description

[sbyte](#)

# Class DataSetMediaTableVariableLength

## Inheritance

[object](#)

DataSetMediaTableVariableLength

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetMediaTableVariableLength
```

## Properties

### ColumnDelimiter

#### Declaration

```
public string ColumnDelimiter { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### RecordDelimiter

#### Declaration

```
public string RecordDelimiter { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### TextEncapsulator

#### Declaration

```
public string TextEncapsulator { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### VariableColumn

#### Declaration



```
public DataSetMediaTableVariableLengthVariableColumn[] VariableColumn { get; set; }
```

**Property Value**

Type	Description
<a href="#">DataSetMediaTableVariableLengthVariableColumn[]</a>	

# Class DataSetMediaTableVariableLengthVariableColumn

## Inheritance

[object](#)

DataSetMediaTableVariableLengthVariableColumn

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetMediaTableVariableLengthVariableColumn
```

## Properties

### AlphaNumeric

#### Declaration

```
public string AlphaNumeric { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Description

#### Declaration

```
public string Description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### MaxLength

#### Declaration

```
public short MaxLength { get; set; }
```

#### Property Value

#### Type Description

[short](#)

### MaxLengthSpecified

#### Declaration

```
public bool MaxLengthSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**Name**

**Declaration**

```
public string Name { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Numeric**

**Declaration**

```
public DataSetMediaTableVariableLengthVariableColumnNumeric Numeric { get; set; }
```

**Property Value**

**Type**

**Description**

[DataSetMediaTableVariableLengthVariableColumnNumeric](#)

# Class DataSetMediaTableVariableLengthVariableColumnNumeric

## Inheritance

[object](#)

DataSetMediaTableVariableLengthVariableColumnNumeric

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DataSetMediaTableVariableLengthVariableColumnNumeric
```

## Properties

### Accuracy

#### Declaration

```
public sbyte Accuracy { get; set; }
```

#### Property Value

#### Type Description

[sbyte](#)

### AccuracySpecified

#### Declaration

```
public bool AccuracySpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

#### Type Description

[string\[\]](#)

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse

## Classes

### [FiskalyCloud](#)

Implementation of cloud tse of fiskaly.

### [OfflineTseDocumentStorage](#)

### [SwissbitCloudTse](#)

Swissbit cloud integration.

### [SwissbitHardware](#)

Implementation of swissbit hardware tse.

### [TestTse](#)

Class to test tse. Not for productive usage.

### [TestTseStatus](#)

### [TseBase](#)

Basic class for all tse interfaces.

### [TseWarning](#)

Class for storing tse errors / warnings.

## Enums

### [TseStatus](#)

Represents the status of the connected tse.

# Class FiskalyCloud

Implementation of cloud tse of fiskaly.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TseBase](#)  
[FiskalyCloud](#)

## Inherited Members

[TseBase.DISCONNECTED\\_FISCALDOCUMENTNR](#)  
[TseBase.DISCONNECTED\\_ERRORTXT](#)  
[TseBase.Status](#)  
[TseBase.TseSerial](#)  
[TseBase.UniqueCashRegisterId](#)  
[TseBase.StartTransaction\(Guid, DocumentType\)](#)  
[TseBase.FinishTransaction\(Guid, TseRequest, long\)](#)  
[TseBase.CancelTransaction\(Guid, int, int, string, long\)](#)  
[TseBase.UpdateTime\(\)](#)  
[TseBase.WaitForBoot\(\)](#)  
[TseBase.RunBackgroundSelfTest\(\)](#)  
[TseBase.SelfTestRequired\(int\)](#)  
[TseBase.RunSelfTest\(string, bool\)](#)  
[TseBase.GetProcessType\(DocumentType\)](#)  
[TseBase.GetCertificateFromPem\(string\)](#)  
[TseBase.GetPublicKeyFromCertificate\(string\)](#)  
[TseBase.GetTseDriverInfos\(\)](#)  
[TseBase.GetTseDriverInfos\(TseDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class FiskalyCloud : TseBase
```

## Remarks

Interface documentation at: <https://developer.fiskaly.com/api/kassensich/v1/> Fiskaly dashboard at: <https://dashboard.fiskaly.com/kassensich/dashboard>.

For more information regarding tse integration information see [TseBase](#).

## Constructors

**FiskalyCloud(string, string, string, Guid, ILogger, string, ProxyConfiguration)**

Constructor.

## Declaration

```
public FiskalyCloud(string apiKey, string apiSecret, string tssId, Guid clientId, ILogger logger, string uniqueCashRegisterId, ProxyConfiguration proxyConfiguration = null)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	apiKey	
<a href="#">string</a>	apiSecret	
<a href="#">string</a>	tssId	
<a href="#">Guid</a>	clientId	
<a href="#">ILogger</a>	logger	
<a href="#">string</a>	uniqueCashRegisterId	The unique cash register id for the tse.

ProxyConfiguration proxyConfiguration

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	

## Fields

### ApiKeyParameterName

The parameter name of the tse configuration parameters for the apiKey.

## Declaration

```
public const string ApiKeyParameterName = "apiKey"
```

## Field Value

### Type Description

[string](#)

### ApiSecretParameterName

The parameter name of the tse configuration parameters for the apiSecret.

#### Declaration

```
public const string ApiSecretParameterName = "apiSecret"
```

#### Field Value

#### Type Description

[string](#)

#### TseAdminPinParameterName

The parameter name for the admin pin of the fiskaly tse.

#### Declaration

```
public const string TseAdminPinParameterName = "tseAdminPin"
```

#### Field Value

#### Type Description

[string](#)

#### TseAdminPukParameterName

The parameter name for the admin puk of the fiskaly tse.

#### Declaration

```
public const string TseAdminPukParameterName = "tseAdminPuk"
```

#### Field Value

#### Type Description

[string](#)

#### TseMaxClientsParameterName

The parameter name of the tse configuration parameters to max clients per tse.

#### Declaration

```
public const string TseMaxClientsParameterName = "tseMaxClients"
```

#### Field Value

#### Type Description

[string](#)

### Properties

#### ExportTarAtClosing

Returns whether the tse should export tar data at closing (for instance at cloud tse implementation it is not necessary).

#### Declaration

```
public override bool ExportTarAtClosing { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[TseBase.ExportTarAtClosing](#)

#### IsInitialized

Returns whether the tse is initialized for first usage.

#### Declaration

```
public override bool IsInitialized { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[TseBase.IsInitialized](#)

#### Remarks

This is not the normal initializing during tse startup. This is the initialization for first use.

#### TseCertificate

Returns the certificate of the tse.

#### Declaration

```
public override string TseCertificate { get; }
```

#### Property Value

## Type Description

[string](#)

## Overrides

[TseBase.TseCertificate](#)

## TseCertificateDate

Returns the certificate lifespan end of life dateTime of the certificate.

## Declaration

```
public override DateTime? TseCertificateDate { get; }
```

## Property Value

### Type Description

[DateTime?](#)

## Overrides

[TseBase.TseCertificateDate](#)

## Remarks

If certificate dateTime cannot be obtained null has to be returned. An exception must not be raised.

## Methods

### CancelTransactionImplementation(Guid, int, int, string)

Cancels a transaction on the technical security system (tse) = fiskaly cloud.

## Declaration

```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int number, int lastRevision, string processType)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	number	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

## Returns

### Type Description

[TseResponse](#)

## Overrides

[TseBase.CancelTransactionImplementation\(Guid, int, int, string\)](#)

## Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if processType is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".
<a href="#">InvalidOperationException</a>	Thrown if no response is sent from fiskaly.

### CommitTarExport(Guid, bool)

Informs the tse that the export tar command was successful and deletes the tar data (if set).

## Declaration

```
public override void CommitTarExport(Guid exportId, bool deleteData = false)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	exportId	The export id
<a href="#">bool</a>	deleteData	True if the data should be deleted. Be sure to store the exported tse tar data into a GOBD compliant archive.

## Overrides

[TseBase.CommitTarExport\(Guid, bool\)](#)

## Remarks

This method has to be called immediately after the export (if the export was successful). Be sure to store the exported tse tar data into a GOBD compliant archive.



## ConnectTest()

Tries to connect to the tse.

### Declaration

```
public override void ConnectTest()
```

### Overrides

[TseBase.ConnectTest\(\)](#)

## ExportFullTar(Stream, DateTime?, DateTime?)

Exports tar data for the given time range.

### Declaration

```
public Guid ExportFullTar(Stream outputStream, DateTime? fromDate = null, DateTime? tillDate = null)
```

### Parameters

Type	Name	Description
<a href="#">Stream</a>	outputStream	The stream to write the tar data.
<a href="#">DateTime?</a>	fromDate	The start date for the export (greater or equal).
<a href="#">DateTime?</a>	tillDate	The end date for the export (smaller or equal).

### Returns

Type	Description
<a href="#">Guid</a>	An export id which can be used to start method <a href="#">CommitTarExport(Guid, bool)</a> .

### Remarks

This method writes a tar file to the stream (one file).

### Exceptions

Type	Condition
<a href="#">TimeoutException</a>	Thrown if the export exceeds maximum time of 10 min.
<a href="#">InvalidOperationException</a>	Thrown if exception occurs when exporting data.
<a href="#">OperationCanceledException</a>	Thrown if the export was canceled.

## ExportFullTar(Stream, string)

Exports all tar data stored on the tse on the given output stream.

### Declaration

```
public override Guid ExportFullTar(Stream outputStream, string adminPin = null)
```

### Parameters

Type	Name	Description
<a href="#">Stream</a>	outputStream	The stream to write the tar data.
<a href="#">string</a>	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).

### Returns

Type	Description
<a href="#">Guid</a>	An export id which can be used to start method <a href="#">CommitTarExport(Guid, bool)</a> . This export id is used to remember special values for the method <a href="#">CommitTarExport(Guid, bool)</a> . You can return <a href="#">NewGuid()</a> if you do not need to remember special values when you implement this method.

### Overrides

[TseBase.ExportFullTar\(Stream, string\)](#)

### Remarks

This method writes a tar file to the stream (one file).

## FinishTransactionImplementation(Guid, TseRequest)

Finish a transaction on the technical security system (tse) = fiskaly cloud.

### Declaration

```
protected override TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client where the transaction should occur.
----------------------	----------	--

[TseRequest](#) request The appropriate request of the transaction. Possible requests are [TseReceipt](#), [TseOrder](#) or [TseOtherTransaction](#).

#### Returns

Type	Description
------	-------------

<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.
-----------------------------	--

#### Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if <code>request</code> parameter is set to null or <code>clientId</code> is set to <a href="#">Empty</a> .
---------------------------------------	--

<a href="#">InvalidOperationException</a>	Thrown if no response is sent from fiskaly.
---	---

#### GetTransactionResponse(Guid, long)

Returns the transaction response for the given transaction number.

#### Declaration

```
public TransactionResponse GetTransactionResponse(Guid clientId, long transactionNumber)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The clientId for the operation (FiscalClient id)
----------------------	----------	--

<a href="#">long</a>	transactionNumber	The transaction number where the <a href="#">TransactionResponse</a> is requested.
----------------------	-------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">TransactionResponse</a>	A <a href="#">TransactionResponse</a> object representing the whole transaction information for the given transaction number.
-------------------------------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">InvalidOperationException</a>	Thrown if the tse is not connected.
---	-------------------------------------

#### Initialize(Guid, string, TseConfiguration, Action<TseConfiguration>, bool)

Initializes the tse with the tse configuration.

#### Declaration

```
public override void Initialize(Guid clientId, string uniqueCashRegisterId, TseConfiguration configuration, Action<TseConfiguration> storeTseConfiguration, bool replace)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client where the tse configuration should occur.
----------------------	----------	--

<a href="#">string</a>	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
------------------------	----------------------	--

<a href="#">TseConfiguration</a>	configuration	The configuration properties to configure the tse.
----------------------------------	---------------	--

<a href="#">Action&lt;TseConfiguration&gt;</a> storeTseConfiguration	An action to store the tse configuration back during initialization.
--	--

<a href="#">bool</a>	replace	True if any existing tse should be replaced; otherwise false.
----------------------	---------	---

#### Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or empty string.
---------------------------------------	---

#### ListRegisteredClients()

Returns all clients which are registered at the tse.

#### Declaration

```
public override List<string> ListRegisteredClients()
```

#### Returns

Type	Description
<a href="#">List&lt;string&gt;</a>	A list of <a href="#">Guid</a> values representing the registered clients at the tse.

#### Overrides

[TseBase.ListRegisteredClients\(\)](#)

#### ListStartedTransactions(Guid)

Returns a list of transaction numbers (which where started at the tse).

#### Declaration

```
public override List<long> ListStartedTransactions(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The clientId where the started transactions are requested (fiscal client id not clientId of ListRegisteredClients).

#### Returns

Type	Description
<a href="#">List&lt;long&gt;</a>	A list of transaction numbers (which where started at the tse).

#### Overrides

[TseBase.ListStartedTransactions\(Guid\)](#)

#### StartTransactionImplementation(Guid, string)

Starts a transaction on the technical security system (tse) = fiskaly cloud.

#### Declaration

```
protected override TseResponse StartTransactionImplementation(Guid clientId, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">string</a>	processType	The processType of the started transaction; mapped out of the document type.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.StartTransactionImplementation\(Guid, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">InvalidOperationException</a>	Thrown if no response is sent from fiskaly.

# Class OfflineTseDocumentStorage

## Inheritance

[object](#)

OfflineTseDocumentStorage

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class OfflineTseDocumentStorage
```

## Properties

### CommandType

#### Declaration

```
public string CommandType { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Document

#### Declaration

```
public Document Document { get; set; }
```

#### Property Value

### Type Description

[Document](#)

# Class SwissbitCloudTse

Swissbit cloud integration.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TseBase](#)  
SwissbitCloudTse

## Inherited Members

[TseBase.DISCONNECTED\\_FISCALDOCUMENTNR](#)  
[TseBase.DISCONNECTED\\_ERRORTEXT](#)  
[TseBase.TseSerial](#)  
[TseBase.UniqueCashRegisterId](#)  
[TseBase.StartTransaction\(Guid, DocumentType\)](#)  
[TseBase.FinishTransaction\(Guid, TseRequest, long\)](#)  
[TseBase.CancelTransaction\(Guid, int, int, string, long\)](#)  
[TseBase.UpdateTime\(\)](#)  
[TseBase.WaitForBoot\(\)](#)  
[TseBase.RunBackgroundSelfTest\(\)](#)  
[TseBase.SelfTestRequired\(int\)](#)  
[TseBase.RunSelfTest\(string, bool\)](#)  
[TseBase.GetProcessType\(DocumentType\)](#)  
[TseBase.GetCertificateFromPem\(string\)](#)  
[TseBase.GetPublicKeyFromCertificate\(string\)](#)  
[TseBase.GetTseDriverInfos\(\)](#)  
[TseBase.GetTseDriverInfos\(TseDriver\)](#)  
[TseBase.GetOrCode\(string, string, string, int, long, DateTimeOffset, DateTimeOffset, string, string, string, string\)](#)  
[TseBase.ClientId](#)  
[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class SwissbitCloudTse : TseBase
```

## Constructors

**SwissbitCloudTse(Guid, string, ILogger, string, string, string)**

Constructor.

## Declaration

```
public SwissbitCloudTse(Guid clientId, string tseSerial, ILogger logger, string ersCode, string uniqueCashRegisterId, string connectorUrl = null)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client which uses the tse.
<a href="#">string</a>	tseSerial	The configured serial of the tse.
<a href="#">ILogger</a>	logger	Logger for the tse.
<a href="#">string</a>	ersCode	The authentication code (ers code) for the tse. You can find this in
<a href="#">string</a>	uniqueCashRegisterId	The unique cash register id for the tse.
<a href="#">string</a>	connectorUrl	Base url to the local cloud connector, default: http://localhost:20001"

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or empty string.

## Fields

**ConnectorUrlParameterName**

## Declaration

```
public const string ConnectorUrlParameterName = "connectorUrl"
```

Field Value

#### Type Description

[string](#)

#### ErsCodeParameterName

Declaration

```
public const string ErsCodeParameterName = "ErsCode"
```

Field Value

#### Type Description

[string](#)

#### FccIdParameterName

Declaration

```
public const string FccIdParameterName = "FccId"
```

Field Value

#### Type Description

[string](#)

#### FccSecretParameterName

Declaration

```
public const string FccSecretParameterName = "FccSecret"
```

Field Value

#### Type Description

[string](#)

#### TseSerialParameterName

Declaration

```
public const string TseSerialParameterName = "TseConfiguredSerial"
```

Field Value

#### Type Description

[string](#)

### Properties

#### ExportTarAtClosing

Returns whether the tse should export tar data at closing (for instance at cloud tse implementation it is not necessary).

Declaration

```
public override bool ExportTarAtClosing { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[TseBase.ExportTarAtClosing](#)

#### IsInitialized

Returns whether the tse is initialized for first usage.

Declaration

```
public override bool IsInitialized { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[TseBase.IsInitialized](#)

Remarks

This is not the normal initializing during tse startup. This is the initialization for first use.

#### Status

Returns the status of the connected tse.

Declaration

```
public override TseStatus Status { get; protected set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">TseStatus</a>	
---------------------------	--

#### Overrides

[TseBase.Status](#)

#### Remarks

For mor information concerning tse status see [TseStatus](#).

#### TseCertificate

Returns the certificate of the tse.

#### Declaration

```
public override string TseCertificate { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

#### Overrides

[TseBase.TseCertificate](#)

#### TseCertificateDate

Returns the certificate lifespan end of life dateTime of the certificate.

#### Declaration

```
public override DateTime? TseCertificateDate { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime?</a>	
---------------------------	--

#### Overrides

[TseBase.TseCertificateDate](#)

#### Remarks

If certificate dateTime cannot be obtained null has to be returned. An exception must not be raised.

#### Methods

##### CancelTransactionImplementation(Guid, int, int, string)

Implementation method for CancelTransaction(Guid, int, int, string).

#### Declaration

```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

#### Returns

Type	Description
------	-------------

<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.
-----------------------------	--

#### Overrides

[TseBase.CancelTransactionImplementation\(Guid, int, int, string\)](#)

##### CommitTarExport(Guid, bool)

Informs the tse that the export tar command was successful and deletes the tar data (if set).

#### Declaration

```
public override void CommitTarExport(Guid exportId, bool deleteData = false)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	exportId	The export id
----------------------	----------	---------------

<a href="#">bool</a>	deleteData	True if the data should be deleted. Be sure to store the exported tse tar data into a GOBD compliant archive.
----------------------	------------	---

## Overrides

[TseBase.CommitTarExport\(Guid, bool\)](#)

## Remarks

This method has to be called immediately after the export (if the export was successful). Be sure to store the exported tse tar data into a GOBD compliant archive.

## ConnectTest()

Tries to connect to the tse.

## Declaration

```
public override void ConnectTest()
```

## Overrides

[TseBase.ConnectTest\(\)](#)

## ExportFullTar(Stream, string)

Exports all tar data stored on the tse on the given output stream.

## Declaration

```
public override Guid ExportFullTar(Stream outputStream, string adminPin = null)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	outputStream	The stream to write the tar data.
------------------------	--------------	-----------------------------------

<a href="#">string</a>	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).
------------------------	----------	--

## Returns

Type	Description
------	-------------

<a href="#">Guid</a>	An export id which can be used to start method <a href="#">CommitTarExport(Guid, bool)</a> . This export id is used to remember special values for the method <a href="#">CommitTarExport(Guid, bool)</a> . You can return <a href="#">NewGuid()</a> if you do not need to remember special values when you implement this method.
----------------------	--

## Overrides

[TseBase.ExportFullTar\(Stream, string\)](#)

## Remarks

This method writes a tar file to the stream (one file).

## FinishTransactionImplementation(Guid, TseRequest)

Implementation method for FinishTransaction(Guid, TseRequest).

## Declaration

```
protected override TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client where the transaction should occur.
----------------------	----------	--

<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .
----------------------------	---------	--

## Returns

Type	Description
------	-------------

<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.
-----------------------------	--

## Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

## Remarks

To avoid creating a tse offline file (for instance if transaction was not created before), throw a [KeyNotFoundException](#).

**Initialize(Guid, string, TseConfiguration, Action<TseConfiguration>, bool)**



Initializes the tse with the tse configuration.

#### Declaration

```
public override void Initialize(Guid clientId, string uniqueCashRegisterId, TseConfiguration configuration, Action<TseConfiguration> storeTseConfiguration, bool replace)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the tse configuration should occur.
<a href="#">string</a>	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
<a href="#">TseConfiguration</a>	configuration	The configuration properties to configure the tse.
<a href="#">Action&lt;TseConfiguration&gt;</a>	storeTseConfiguration	An action to store the tse configuration back during initialization.
<a href="#">bool</a>	replace	True if any existing tse should be replaced; otherwise false.

#### Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or empty string.

#### ListRegisteredClients()

Returns all clients which are registered at the tse.

#### Declaration

```
public override List<string> ListRegisteredClients()
```

#### Returns

Type	Description
<a href="#">List&lt;string&gt;</a>	A list of <a href="#">Guid</a> values representing the registered clients at the tse.

#### Overrides

[TseBase.ListRegisteredClients\(\)](#)

#### ListStartedTransactions(Guid)

Returns a list of transaction numbers (which where started at the tse).

#### Declaration

```
public override List<long> ListStartedTransactions(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The clientId where the started transactions are requested (fiscal client id not clientId of ListRegisteredClients).

#### Returns

Type	Description
<a href="#">List&lt;long&gt;</a>	A list of transaction numbers (which where started at the tse).

#### Overrides

[TseBase.ListStartedTransactions\(Guid\)](#)

#### StartTransactionImplementation(Guid, string)

Implementation method for [StartTransaction\(Guid, DocumentType\)](#).

#### Declaration

```
protected override TseResponse StartTransactionImplementation(Guid clientId, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">string</a>	processType	The processType of the started transaction; mapped out of the document type.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.StartTransactionImplementation\(Guid, string\)](#)

## Class SwissbitHardware

Implementation of swissbit hardware tse.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TseBase](#)  
[SwissbitHardware](#)

### Implements

[IDisposable](#)

### Inherited Members

[TseBase.DISCONNECTED\\_FISCALDOCUMENTNR](#)  
[TseBase.DISCONNECTED\\_ERRORTEXT](#)  
[TseBase.TseSerial](#)  
[TseBase.UniqueCashRegisterId](#)  
[TseBase.StartTransaction\(Guid, DocumentType\)](#)  
[TseBase.FinishTransaction\(Guid, TseRequest, long\)](#)  
[TseBase.CancelTransaction\(Guid, int, int, string, long\)](#)  
[TseBase.GetProcessType\(DocumentType\)](#)  
[TseBase.GetCertificateFromPem\(string\)](#)  
[TseBase.GetPublicKeyFromCertificate\(string\)](#)  
[TseBase.GetTseDriverInfos\(\)](#)  
[TseBase.GetTseDriverInfos\(TseDriver\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public sealed class SwissbitHardware : TseBase, IDisposable
```

### Constructors

#### SwissbitHardware(ISwissbitCommunication, ILogger, string)

Constructor. To use for initialization when no client is registered.

#### Declaration

```
public SwissbitHardware(ISwissbitCommunication swissbitCommunication, ILogger logger, string uniqueCashRegisterId)
```

#### Parameters

Type	Name	Description
<a href="#">ISwissbitCommunication</a>	swissbitCommunication	
<a href="#">ILogger</a>	logger	
<a href="#">string</a>	uniqueCashRegisterId	The id of the cashregister which should be connected to the tse.

#### SwissbitHardware(string, ILogger, Guid, string, string, string, string)

Constructor. To use for "normal" tse usage.

#### Declaration

```
public SwissbitHardware(string tseSerial, ILogger logger, Guid clientId, string uniqueCashRegisterId, string adminPuk, string adminPin, string timeAdminPin)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	tseSerial	The configured serial of the tse.
<a href="#">ILogger</a>	logger	The appropriate logger for logging purposes.
<a href="#">Guid</a>	clientId	The id of the fiscal client (UniqueClientId).
<a href="#">string</a>	uniqueCashRegisterId	The id of the cashregister which should be connected to the tse.
<a href="#">string</a>	adminPuk	The admin puk to access special features of the tse.
<a href="#">string</a>	adminPin	The admin pin to access special features of the tse.
<a href="#">string</a>	timeAdminPin	The time admin pin to update time.

### Fields

#### AdminPinParameterName

The parameter name of the tse configuration parameters for the adminPin.

#### Declaration

```
public const string AdminPinParameterName = "adminPin"
```

Field Value

#### Type Description

[string](#)

#### AdminPukParameterName

The parameter name of the tse configuration parameters for the adminPuk.

#### Declaration

```
public const string AdminPukParameterName = "adminPuk"
```

Field Value

#### Type Description

[string](#)

#### CREATOR\_OBJECT\_CACHE\_IDENTIFIER

#### Declaration

```
public const string CREATOR_OBJECT_CACHE_IDENTIFIER = "SwissbitCreator"
```

Field Value

#### Type Description

[string](#)

#### DefaultSecuritySeed

The default security seed for swissbit hardware.

#### Declaration

```
public const string DefaultSecuritySeed = "SwissbitSwissbit"
```

Field Value

#### Type Description

[string](#)

#### SecuritySeedParameterName

The parameter name of the tse configuration parameters for the security seed to calculate the initial securables (puk, pin, timeadmin pin).

#### Declaration

```
public const string SecuritySeedParameterName = "securitySeed"
```

Field Value

#### Type Description

[string](#)

#### TimeAdminPinParameterName

The parameter name of the tse configuration parameters for the time admin pin.

#### Declaration

```
public const string TimeAdminPinParameterName = "timeAdminPin"
```

Field Value

#### Type Description

[string](#)

#### TseHashAlgorithm

The hash algorithm of the tse.

#### Declaration

```
public const string TseHashAlgorithm = "ecdsa-plain-SHA384"
```

Field Value

#### Type Description

[string](#)

#### TseTimeFormat

The time format of the tse.

#### Declaration

```
public const string TseTimeFormat = "unixTime"
```

Field Value

#### Type Description

[string](#)

#### Properties

#### CommandLogFile

#### Declaration

```
public string CommandLogFile { get; set; }
```

Property Value

#### Type Description

[string](#)

#### ExportTarAtClosing

Returns whether the tse should export tar data at closing (for instance at cloud tse implementation it is not necessary).

Declaration

```
public override bool ExportTarAtClosing { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[TseBase.ExportTarAtClosing](#)

#### IsInitialized

Returns whether the tse is initialized for first usage.

Declaration

```
public override bool IsInitialized { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[TseBase.IsInitialized](#)

Remarks

This is not the normal initializing during tse startup. This is the initialization for first use.

#### Status

Returns the status of the connected tse.

Declaration

```
public override TseStatus Status { get; protected set; }
```

Property Value

#### Type Description

[TseStatus](#)

Overrides

[TseBase.Status](#)

Remarks

For more information concerning tse status see [TseStatus](#).

#### TimeUpdateRequired

True if a time update is required; otherwise false.

Declaration

```
public bool TimeUpdateRequired { get; }
```

Property Value

#### Type Description

[bool](#)

#### TseCertificate

Returns the certificate of the tse.

Declaration

```
public override string TseCertificate { get; }
```

Property Value

#### Type Description

[string](#)

Overrides

[TseBase.TseCertificate](#)

#### TseCertificateDate

Returns the certificate lifespan end of life date of the certificate.

Declaration

```
public override DateTime? TseCertificateDate { get; }
```

#### Property Value

Type	Description
<a href="#">DateTime?</a>	

#### Overrides

[TseBase.TseCertificateDate](#)

#### Remarks

If certificate dateTime cannot be obtained null has to be returned. An exception must not be raised.

#### TseStatus

Returns the current status of the tse.

#### Declaration

```
public ISwissbitStatus TseStatus { get; }
```

#### Property Value

Type	Description
<a href="#">ISwissbitStatus</a>	

#### Methods

##### CancelTransactionImplementation(Guid, int, int, string)

Implementation method for CancelTransaction(Guid, int, int, string).

#### Declaration

```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.CancelTransactionImplementation\(Guid, int, int, string\)](#)

##### CommitTarExport(Guid, bool)

Informs the tse that the export tar command was successful and deletes the tar data (if set).

#### Declaration

```
public override void CommitTarExport(Guid exportId, bool deleteData = false)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	exportId	The export id
<a href="#">bool</a>	deleteData	True if the data should be deleted. Be sure to store the exported tse tar data into a GOBD compliant archive.

#### Overrides

[TseBase.CommitTarExport\(Guid, bool\)](#)

#### Remarks

This method has to be called immediately after the export (if the export was successful). Be sure to store the exported tse tar data into a GOBD compliant archive.

##### ConnectTest()

Tries to connect to the tse.

#### Declaration

```
public override void ConnectTest()
```

#### Overrides

[TseBase.ConnectTest\(\)](#)

##### Dispose()

Performs application-defined tasks associated with freeing, releasing, or resetting unmanaged resources.

#### Declaration

```
public void Dispose()
```

#### EnableCTSSInterface()

#### Declaration

```
public void EnableCTSSInterface()
```

#### ExportFullTar(Stream, string)

Exports all tar data stored on the tse on the given output stream.

#### Declaration

```
public override Guid ExportFullTar(Stream exportStream, string adminPin = null)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	exportStream	
<a href="#">string</a>	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).

#### Returns

Type	Description
<a href="#">Guid</a>	An export id which can be used to start method <a href="#">CommitTarExport(Guid, bool)</a> . This export id is used to remember special values for the method <a href="#">CommitTarExport(Guid, bool)</a> . You can return <a href="#">NewGuid()</a> if you do not need to remember special values when you implement this method.

#### Overrides

[TseBase.ExportFullTar\(Stream, string\)](#)

#### Remarks

This method writes a tar file to the stream (one file).

#### FactoryReset()

Does a factory reset on the tse.

#### Declaration

```
public void FactoryReset()
```

#### Remarks

Only works on dev tse's and only supported on android systems.

#### FinishTransactionImplementation(Guid, TseRequest)

Implementation method for FinishTransaction(Guid, TseRequest).

#### Declaration

```
protected override TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

#### Remarks

To avoid creating a tse offline file (for instance if transaction was not created before), throw a [KeyNotFoundException](#).

#### FirmwareUpdate(string, Version)

Does a firmware update on the swissbit tse.

#### Declaration

```
public bool FirmwareUpdate(string updateFile, Version newVersion)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	updateFile	The firmware update file.

Type	Name	Description
------	------	-------------

<a href="#">Version</a>	newVersion	The new firmware version.
-------------------------	------------	---------------------------

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if version update was done; otherwise false.
----------------------	---

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>updateFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">FileNotFoundException</a>	Thrown if <code>updateFile</code> is not found.
<a href="#">InvalidDataException</a>	Thrown if transfer of firmware fails.
<a href="#">InvalidOperationException</a>	Thrown if admin login is not possible.
<a href="#">ApplicationException</a>	Thrown if firmware update cannot be applied.

#### GetInitialAdminPin(string)

##### Declaration

```
public string GetInitialAdminPin(string seed)
```

##### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	seed	
------------------------	------	--

##### Returns

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

#### GetInitialAdminPuk(string)

Returns the initial admin puk from factory settings. This value is needed to

##### Declaration

```
public string GetInitialAdminPuk(string seed)
```

##### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	seed	The security seed
------------------------	------	-------------------

##### Returns

Type	Description
------	-------------

<a href="#">string</a>	The initial admin puk as string.
------------------------	----------------------------------

#### GetInitialTimeAdminPin(string)

##### Declaration

```
public string GetInitialTimeAdminPin(string seed)
```

##### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	seed	
------------------------	------	--

##### Returns

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

#### GetQrCode(string, string, string, int, long, DateTimeOffset, DateTimeOffset, string, string, string, string)

Returns the qr code (string) for the given data.

##### Declaration

```
protected override string GetQrCode(string uniqueCashRegisterId, string processType, string processData, int transactionNumber, long signatureCounter, DateTimeOffset startTime, DateTimeOffset endTime, string qrCode, string qrCodeData, string qrCodeImage)
```

##### Parameters

Type	Name	Description
<a href="#">string</a>	uniqueCashRegisterId	The unique cash register id.



Type	Name	Description
<a href="#">string</a>	processType	The process type according to DS-FinVK
<a href="#">string</a>	processData	The according process data.
<a href="#">int</a>	transactionNumber	The transaction number given by the tse.
<a href="#">long</a>	signatureCounter	The signature counter of the tse.
<a href="#">DateTimeOffset</a>	startTime	The start time of the transaction.
<a href="#">DateTimeOffset</a>	endTime	The end time of the transaction.
<a href="#">string</a>	tseHashAlgorithm	The used hash algorithm of the tse.
<a href="#">string</a>	tseTimeFormat	The used time format of the tse.
<a href="#">string</a>	signatureString	The signature of the signature process of the tse.
<a href="#">string</a>	tsePublicKeyString	The public key string of the tse in base 64 encoding.

#### Returns

**Type Description**

[string](#) The qr code (string) for the given data.

#### Overrides

[TseBase.GetQrCode\(string, string, string, int, long, DateTimeOffset, DateTimeOffset, string, string, string, string\)](#)

#### GetTseCertificate()

Returns the tse certificate for this swissbit tse.

#### Declaration

```
public string GetTseCertificate()
```

#### Returns

**Type Description**

[string](#)

#### Initialize(Guid, string, TseConfiguration, Action<TseConfiguration>, bool)

Initializes the tse with the tse configuration.

#### Declaration

```
public override void Initialize(Guid clientId, string uniqueCashRegisterId, TseConfiguration configuration, Action<TseConfiguration> storeTseConfiguration, bool replace)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the tse configuration should occur.
<a href="#">string</a>	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
<a href="#">TseConfiguration</a>	configuration	The configuration properties to configure the tse.
<a href="#">Action&lt;TseConfiguration&gt;</a>	storeTseConfiguration	An action to store the tse configuration back during initialization.
<a href="#">bool</a>	replace	True if any existing tse should be replaced; otherwise false.

#### Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or empty string.

#### ListRegisteredClients()

Returns all clients which are registered at the tse.

#### Declaration

```
public override List<string> ListRegisteredClients()
```

#### Returns

**Type Description**

Type	Description
------	-------------

[List<string>](#) A list of [Guid](#) values representing the registered clients at the tse.

Overrides

[TseBase.ListRegisteredClients\(\)](#)

**ListRegisteredClients(string)**

Declaration

```
public List<string> ListRegisteredClients(string adminPin)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	adminPin	
------------------------	----------	--

Returns

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	
------------------------------------	--

Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>adminPin</code> is set to null or empty string.
---------------------------------------	---

**ListStartedTransactions(Guid)**

Returns a list of transaction numbers (which where started at the tse).

Declaration

```
public override List<long> ListStartedTransactions(Guid clientId)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The clientId where the started transactions are requested (fiscal client id not clientId of ListRegisteredClients).
----------------------	----------	---

Returns

Type	Description
------	-------------

<a href="#">List&lt;long&gt;</a>	A list of transaction numbers (which where started at the tse).
----------------------------------	---

Overrides

[TseBase.ListStartedTransactions\(Guid\)](#)

**RunBackgroundSelfTest()**

Runs a self test on the tse.

Declaration

```
public override void RunBackgroundSelfTest()
```

Overrides

[TseBase.RunBackgroundSelfTest\(\)](#)

**RunSelfTest(string, bool)**

Runs a synchronous self test for the given cash register on the tse (cash register is optional).

Declaration

```
public override void RunSelfTest(string cashRegisterId = "SELFTEST", bool forceSelfTest = false)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	cashRegisterId	The cash register id for the self test (optional). In case of initialized tse this parameter is not used.
------------------------	----------------	---

<a href="#">bool</a>	forceSelfTest	True if a self test should be done also if it is not required. Default is false.
----------------------	---------------	--

Overrides

[TseBase.RunSelfTest\(string, bool\)](#)

Remarks

Self test is only run if parameter `forceSelfTest` is set to true or if a self test is required.

**SecuredCommand(Func<ITseCommandResponse>)**

This command ensured that the self test is run if necessary before the command is executed.

Declaration

```
public ITseCommandResponse SecuredCommand(Func<ITseCommandResponse> securedCommand)
```

#### Parameters

Type	Name	Description
<a href="#">Func</a> < <a href="#">ITseCommandResponse</a> >	securedCommand	The command to execute against the tse.

#### Returns

Type	Description
<a href="#">ITseCommandResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Remarks

This method raises no exception if command fails and if self test is required this is a long lasting command (>25sec).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>securedCommand</code> is set to null.

#### SelfTestRequired(int)

Returns whether a self test is required in the given seconds.

#### Declaration

```
public override bool SelfTestRequired(int remainingSeconds)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	remainingSeconds	The time span where the self test is required.

#### Returns

Type	Description
<a href="#">bool</a>	True if a self test is required within the given seconds; otherwise false.

#### Overrides

[TseBase.SelfTestRequired\(int\)](#)

#### StartTransactionImplementation(Guid, string)

Implementation method for [StartTransaction\(Guid, DocumentType\)](#).

#### Declaration

```
protected override TseResponse StartTransactionImplementation(Guid clientId, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">string</a>	processType	The processType of the started transaction; mapped out of the document type.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.StartTransactionImplementation\(Guid, string\)](#)

#### StringToByteArray(string)

#### Declaration

```
public static byte[] StringToByteArray(string hex)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	hex	

#### Returns

Type	Description
<a href="#">byte[]</a>	

#### Update Time()

Updates the time and raises an exception if this is not possible.

#### Declaration

```
public override void UpdateTime()
```

#### Overrides

[TseBase.UpdateTime\(\)](#)

#### WaitForBoot()

Waits until the starting process is completed.

#### Declaration

```
public override void WaitForBoot()
```

#### Overrides

[TseBase.WaitForBoot\(\)](#)

#### Remarks

Only necessary if tse needs a start process.

#### Implements

[IDisposable](#)

# Class TestTse

Class to test tse. Not for productive usage.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TseBase](#)  
[TestTse](#)

## Inherited Members

[TseBase.DISCONNECTED\\_FISCALDOCUMENTNR](#)  
[TseBase.DISCONNECTED\\_ERRORTXT](#)  
[TseBase.Status](#)  
[TseBase.TseSerial](#)  
[TseBase.UniqueCashRegisterId](#)  
[TseBase.StartTransaction\(Guid, DocumentType\)](#)  
[TseBase.FinishTransaction\(Guid, TseRequest, long\)](#)  
[TseBase.CancelTransaction\(Guid, int, int, string, long\)](#)  
[TseBase.UpdateTime\(\)](#)  
[TseBase.WaitForBoot\(\)](#)  
[TseBase.RunBackgroundSelfTest\(\)](#)  
[TseBase.SelfTestRequired\(int\)](#)  
[TseBase.RunSelfTest\(string, bool\)](#)  
[TseBase.GetProcessType\(DocumentType\)](#)  
[TseBase.GetCertificateFromPem\(string\)](#)  
[TseBase.GetPublicKeyFromCertificate\(string\)](#)  
[TseBase.GetTseDriverInfos\(\)](#)  
[TseBase.GetTseDriverInfos\(TseDriver\)](#)  
[TseBase.GetOrCode\(string, string, string, int, long, DateTimeOffset, DateTimeOffset, string, string, string, string\)](#)  
[TseBase.ClientId](#)  
[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class TestTse : TseBase
```

## Constructors

**TestTse(string, Guid, string, ILogger)**

Constructor.

## Declaration

```
public TestTse(string storagePath, Guid clientId, string uniqueCashRegisterId, ILogger logger)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	storagePath	
<a href="#">Guid</a>	clientId	
<a href="#">string</a>	uniqueCashRegisterId	
<a href="#">ILogger</a>	logger	

## Properties

### ExportTarAtClosing

Returns whether the tse should export tar data at closing (for instance at cloud tse implementation it is not necessary).

## Declaration

```
public override bool ExportTarAtClosing { get; }
```

## Property Value

### Type Description

[bool](#)

## Overrides

[TseBase.ExportTarAtClosing](#)

## IsInitialized

Returns whether the tse is initialized for first usage.

#### Declaration

```
public override bool IsInitialized { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[TseBase.IsInitialized](#)

#### Remarks

This is not the normal initializing during tse startup. This is the initialization for first use.

#### TseCertificate

Returns the certificate of the tse.

#### Declaration

```
public override string TseCertificate { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TseBase.TseCertificate](#)

#### TseCertificateDate

Returns the certificate lifespan end of life dateTime of the certificate.

#### Declaration

```
public override DateTime? TseCertificateDate { get; }
```

#### Property Value

#### Type Description

[DateTime?](#)

#### Overrides

[TseBase.TseCertificateDate](#)

#### Remarks

If certificate dateTime cannot be obtained null has to be returned. An exception must not be raised.

#### Methods

#### CancelTransactionImplementation(Guid, int, int, string)

Implementation method for CancelTransaction(Guid, int, int, string).

#### Declaration

```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.CancelTransactionImplementation\(Guid, int, int, string\)](#)

#### CommitTarExport(Guid, bool)

Informs the tse that the export tar command was successful and deletes the tar data (if set).

#### Declaration

```
public override void CommitTarExport(Guid exportId, bool deleteData = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	exportId	The export id
----------------------	----------	---------------

<a href="#">bool</a>	deleteData	True if the data should be deleted. Be sure to store the exported tse tar data into a GOBD compliant archive.
----------------------	------------	---

#### Overrides

[TseBase.CommitTarExport\(Guid, bool\)](#)

#### Remarks

This method has to be called immediately after the export (if the export was successful). Be sure to store the exported tse tar data into a GOBD compliant archive.

#### ConnectTest()

Tries to connect to the tse.

#### Declaration

```
public override void ConnectTest()
```

#### Overrides

[TseBase.ConnectTest\(\)](#)

#### ExportFullTar(Stream, string)

Exports all tar data stored on the tse on the given output stream.

#### Declaration

```
public override Guid ExportFullTar(Stream outputStream, string adminPin = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	outputStream	The stream to write the tar data.
------------------------	--------------	-----------------------------------

<a href="#">string</a>	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).
------------------------	----------	--

#### Returns

Type	Description
------	-------------

<a href="#">Guid</a>	An export id which can be used to start method <a href="#">CommitTarExport(Guid, bool)</a> . This export id is used to remember special values for the method <a href="#">CommitTarExport(Guid, bool)</a> . You can return <a href="#">NewGuid()</a> if you do not need to remember special values when you implement this method.
----------------------	--

#### Overrides

[TseBase.ExportFullTar\(Stream, string\)](#)

#### Remarks

This method writes a tar file to the stream (one file).

#### FinishTransactionImplementation(Guid, TseRequest)

Implementation method for FinishTransaction(Guid, TseRequest).

#### Declaration

```
protected override TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client where the transaction should occur.
----------------------	----------	--

<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .
----------------------------	---------	--

#### Returns

Type	Description
------	-------------

<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.
-----------------------------	--

#### Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

#### Remarks

To avoid creating a tse offline file (for instance if transaction was not created before), throw a [KeyNotFoundException](#).

### Initialize(Guid, string, TseConfiguration, Action<TseConfiguration>, bool)

Initializes the tse with the tse configuration.

#### Declaration

```
public override void Initialize(Guid clientId, string uniqueCashRegisterId, TseConfiguration configuration, Action<TseConfiguration> storeTseConfiguration, bool replace)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the tse configuration should occur.
<a href="#">string</a>	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
<a href="#">TseConfiguration</a>	configuration	The configuration properties to configure the tse.
<a href="#">Action&lt;TseConfiguration&gt;</a>	storeTseConfiguration	An action to store the tse configuration back during initialization.
<a href="#">bool</a>	replace	True if any existing tse should be replaced; otherwise false.

#### Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or empty string.

### ListRegisteredClients()

Returns all clients which are registered at the tse.

#### Declaration

```
public override List<string> ListRegisteredClients()
```

#### Returns

Type	Description
<a href="#">List&lt;string&gt;</a>	A list of <a href="#">Guid</a> values representing the registered clients at the tse.

#### Overrides

[TseBase.ListRegisteredClients\(\)](#)

### ListStartedTransactions(Guid)

Returns a list of transaction numbers (which where started at the tse).

#### Declaration

```
public override List<long> ListStartedTransactions(Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The clientId where the started transactions are requested (fiscal client id not clientId of ListRegisteredClients).

#### Returns

Type	Description
<a href="#">List&lt;long&gt;</a>	A list of transaction numbers (which where started at the tse).

#### Overrides

[TseBase.ListStartedTransactions\(Guid\)](#)

### StartTransactionImplementation(Guid, string)

Implementation method for [StartTransaction\(Guid, DocumentType\)](#).

#### Declaration

```
protected override TseResponse StartTransactionImplementation(Guid clientId, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.



Type	Name	Description
<a href="#">string</a>	processType	The processType of the started transaction; mapped out of the document type.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Overrides

[TseBase.StartTransactionImplementation\(Guid, string\)](#)

# Class TestTseStatus

## Inheritance

[object](#)

TestTseStatus

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TestTseStatus
```

## Properties

### DocumentNr

#### Declaration

```
public int DocumentNr { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### Revision

#### Declaration

```
public int Revision { get; set; }
```

#### Property Value

#### Type Description

[int](#)

## Class TseBase

Basic class for all tse interfaces.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TseBase](#)  
[FiskalyCloud](#)  
[SwissbitCloudTse](#)  
[SwissbitHardware](#)  
[TestTse](#)

### Inherited Members

[LoggingBase.Logger](#)  
[LoggingBase.LogSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public abstract class TseBase : LoggingBase
```

### Constructors

#### TseBase(Guid, ILogger, string)

Constructor.

#### Declaration

```
public TseBase(Guid clientId, ILogger logger, string uniqueCashRegisterId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The assigned client for the tse.
<a href="#">ILogger</a>	logger	The logger to log.
<a href="#">string</a>	uniqueCashRegisterId	The id of the cashregister which should be connected to the tse.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or <a href="#">Empty</a> .

### Fields

#### DISCONNECTED\_ERRORTEXT

##### Declaration

```
public const string DISCONNECTED_ERRORTEXT = "Tse connection error."
```

##### Field Value

##### Type Description

[string](#)

#### DISCONNECTED\_FISCALDOCUMENTNR

##### Declaration

```
public const int DISCONNECTED_FISCALDOCUMENTNR = -99
```

##### Field Value

##### Type Description

[int](#)

### Properties

#### ClientId

The client for this tse.

##### Declaration

```
protected Guid ClientId { get; }
```

Property Value

#### Type Description

[Guid](#)

#### ExportTarAtClosing

Returns whether the tse should export tar data at closing (for instance at cloud tse implementation it is not necessary).

Declaration

```
public abstract bool ExportTarAtClosing { get; }
```

Property Value

#### Type Description

[bool](#)

#### IsInitialized

Returns whether the tse is initialized for first usage.

Declaration

```
public abstract bool IsInitialized { get; }
```

Property Value

#### Type Description

[bool](#)

Remarks

This is not the normal initializing during tse startup. This is the initialization for first use.

#### Status

Returns the status of the connected tse.

Declaration

```
public virtual TseStatus Status { get; protected set; }
```

Property Value

#### Type Description

[TseStatus](#)

Remarks

For more information concerning tse status see [TseStatus](#).

#### TseCertificate

Returns the certificate of the tse.

Declaration

```
public abstract string TseCertificate { get; }
```

Property Value

#### Type Description

[string](#)

#### TseCertificateDate

Returns the certificate lifespan end of life dateTime of the certificate.

Declaration

```
public abstract DateTime? TseCertificateDate { get; }
```

Property Value

#### Type Description

[DateTime?](#)

Remarks

If certificate dateTime cannot be obtained null has to be returned. An exception must not be raised.

#### TseSerial

Returns the serial of the tse. Must be in hex string format (not in base64 encoding).

Declaration

```
public string TseSerial { get; protected set; }
```

Property Value

#### Type Description

[string](#)

#### UniqueCashRegisterId

The id of the cashregister which should be connected to the tse.

#### Declaration

```
public string UniqueCashRegisterId { get; protected set; }
```

#### Property Value

#### Type Description

[string](#)

#### Methods

#### CancelTransaction(Guid, int, int, string, long)

Cancels a transaction on the technical security system (tse).

#### Declaration

```
public TseFinishResponse CancelTransaction(Guid clientId, int transactionNumber, int lastRevision, string processType, long fiscalDocumentStartTime)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.
<a href="#">long</a>	fiscalDocumentStartTime	

#### Returns

Type	Description
<a href="#">TseFinishResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the supplied <code>clientId</code> does not match <a href="#">ClientId</a> .
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".
<a href="#">InvalidProgramException</a>	Thrown if the tse was not initialized yet.
<a href="#">InvalidOperationException</a>	Thrown if tse is not in status connected or connectedWarning.

#### CancelTransactionImplementation(Guid, int, int, string)

Implementation method for `CancelTransaction(Guid, int, int, string)`.

#### Declaration

```
protected abstract TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### CommitTarExport(Guid, bool)

Informs the tse that the export tar command was successful and deletes the tar data (if set).

#### Declaration

```
public abstract void CommitTarExport(Guid exportId, bool deleteData = false)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	exportId	The export id

Type	Name	Description
------	------	-------------

<a href="#">bool</a>	deleteData	True if the data should be deleted. Be sure to store the exported tse tar data into a GOBD compliant archive.
----------------------	------------	---

#### Remarks

This method has to be called immediately after the export (if the export was successful). Be sure to store the exported tse tar data into a GOBD compliant archive.

#### ConnectTest()

Tries to connect to the tse.

#### Declaration

```
public abstract void ConnectTest()
```

#### ExportFullTar(Stream, string)

Exports all tar data stored on the tse on the given output stream.

#### Declaration

```
public abstract Guid ExportFullTar(Stream outputStream, string adminPin = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	outputStream	The stream to write the tar data.
------------------------	--------------	-----------------------------------

<a href="#">string</a>	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).
------------------------	----------	--

#### Returns

Type	Description
------	-------------

<a href="#">Guid</a>	An export id which can be used to start method <a href="#">CommitTarExport(Guid, bool)</a> . This export id is used to remember special values for the method <a href="#">CommitTarExport(Guid, bool)</a> . You can return <a href="#">NewGuid()</a> if you do not need to remember special values when you implement this method.
----------------------	--

#### Remarks

This method writes a tar file to the stream (one file).

#### FinishTransaction(Guid, TseRequest, long)

Finish a transaction on the technical security system (tse).

#### Declaration

```
public TseFinishResponse FinishTransaction(Guid clientId, TseRequest request, long fiscalDocumentStartTime)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client where the transaction should occur.
----------------------	----------	--

<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .
----------------------------	---------	--

<a href="#">long</a>	fiscalDocumentStartTime	
----------------------	-------------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">TseFinishResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.
-----------------------------------	--

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentException</a>	Thrown if the supplied <code>clientId</code> does not match <a href="#">ClientId</a> .
-----------------------------------	--

<a href="#">InvalidProgramException</a>	Thrown if the tse was not initialized yet.
---	--

<a href="#">InvalidOperationException</a>	Thrown if tse is not in status connected or connectedWarning.
---	---

#### FinishTransactionImplementation(Guid, TseRequest)

Implementation method for [FinishTransaction\(Guid, TseRequest\)](#).

#### Declaration

```
protected abstract TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	clientId	The client where the transaction should occur.
----------------------	----------	--

<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .
----------------------------	---------	--

## Returns

Type	Description
------	-------------

[TseResponse](#) A [TseResponse](#) object representing the response of the tse.

## Remarks

To avoid creating a tse offline file (for instance if transaction was not created before), throw a [KeyNotFoundException](#).

### GetCertificateFromPem(string)

Returns the certificate from the pemFile string and if it is only the certificate (without pem format) the certificate.

#### Declaration

```
public static string GetCertificateFromPem(string pemFileData)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) pemFileData The certificate in pem file format (first certificate = leaf certificate will be returned).

## Returns

Type	Description
------	-------------

[string](#) The certificate from the pemFile string and if it is only the certificate (without pem format) the certificate.

### GetProcessType(DocumentType)

Returns the tse document type for the given document type.

#### Declaration

```
public static string GetProcessType(DocumentType documentType)
```

#### Parameters

Type	Name	Description
------	------	-------------

[DocumentType](#) documentType The documenttype to return the correct tse document type.

## Returns

Type	Description
------	-------------

[string](#) A string representing the tse document type.

### GetPublicKeyFromCertificate(string)

Returns the public key out of the certificate.

#### Declaration

```
public static string GetPublicKeyFromCertificate(string certificateBase64)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) certificateBase64 Base64 encoded certificate (for example from pem file).

## Returns

Type	Description
------	-------------

[string](#) Base64 encoding public key.

### GetQrCode(string, string, string, int, long, DateTimeOffset, DateTimeOffset, string, string, string, string)

Returns the qr code (string) for the given data.

#### Declaration

```
protected virtual string GetQrCode(string uniqueCashRegisterId, string processType, string processData, int transactionNumber, long signatureCounter, DateTimeOffset startTime, DateTimeOffset endTime, string merchantName, string merchantAddress, string merchantCity, string merchantCountry)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) uniqueCashRegisterId The unique cash register id.

[string](#) processType The process type according to DS-FinVK

[string](#) processData The according process data.

[int](#) transactionNumber The transaction number given by the tse.

[long](#) signatureCounter The signature counter of the tse.

Type	Name	Description
<a href="#">DateTimeOffset</a>	startTime	The start time of the transaction.
<a href="#">DateTimeOffset</a>	endTime	The end time of the transaction.
<a href="#">string</a>	tseHashAlgorithm	The used hash algorithm of the tse.
<a href="#">string</a>	tseTimeFormat	The used time format of the tse.
<a href="#">string</a>	signatureString	The signature of the signature process of the tse.
<a href="#">string</a>	tsePublicKeyString	The public key string of the tse in base 64 encoding.

#### Returns

Type	Description
<a href="#">string</a>	The qr code (string) for the given data.

#### GetTseDriverInfos()

Returns all driver infos of the possible tse drivers.

#### Declaration

```
public static List<TseDriverInfo> GetTseDriverInfos()
```

#### Returns

Type	Description
<a href="#">List&lt;TseDriverInfo&gt;</a>	

#### GetTseDriverInfos(TseDriver)

Driver info of the requested tse driver.

#### Declaration

```
public static TseDriverInfo GetTseDriverInfos(TseDriver driver)
```

#### Parameters

Type	Name	Description
<a href="#">TseDriver</a>	driver	The requested driver.

#### Returns

Type	Description
<a href="#">TseDriverInfo</a>	The requested tse driver info.

#### Initialize(Guid, string, TseConfiguration, Action<TseConfiguration>, bool)

Initializes the tse with the tse configuration.

#### Declaration

```
public abstract void Initialize(Guid clientId, string uniqueCashRegisterId, TseConfiguration configuration, Action<TseConfiguration> storeTseConfiguration, bool replace)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the tse configuration should occur.
<a href="#">string</a>	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
<a href="#">TseConfiguration</a>	configuration	The configuration properties to configure the tse.
<a href="#">Action&lt;TseConfiguration&gt;</a>	storeTseConfiguration	An action to store the tse configuration back during initialization.
<a href="#">bool</a>	replace	True if any existing tse should be replaced; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or empty string.

#### ListRegisteredClients()

Returns all clients which are registered at the tse.

#### Declaration

```
public abstract List<string> ListRegisteredClients()
```

#### Returns



Type	Description
------	-------------

[List<string>](#) A list of [Guid](#) values representing the registered clients at the tse.

#### ListStartedTransactions(Guid)

Returns a list of transaction numbers (which where started at the tse).

##### Declaration

```
public abstract List<long> ListStartedTransactions(Guid clientId)
```

##### Parameters

Type Name	Description
-----------	-------------

[Guid](#) clientId The clientId where the started transactions are requested (fiscal client id not clientId of ListRegisteredClients).

##### Returns

Type	Description
------	-------------

[List<long>](#) A list of transaction numbers (which where started at the tse).

#### RunBackgroundSelfTest()

Runs a self test on the tse.

##### Declaration

```
public virtual void RunBackgroundSelfTest()
```

#### RunSelfTest(string, bool)

Runs a synchronous self test for the given cash register on the tse (cash register is optional).

##### Declaration

```
public virtual void RunSelfTest(string cashRegisterId = "SELFTTEST", bool forceSelfTest = false)
```

##### Parameters

Type	Name	Description
------	------	-------------

[string](#) cashRegisterId The cash register id for the self test (optional). In case of initialized tse this parameter is not used.

[bool](#) forceSelfTest True if a self test should be done also if it is not required. Default is false.

##### Remarks

Self test is only run if parameter `forceSelfTest` is set to true or if a self test is required.

#### SelfTestRequired(int)

Returns whether a self test is required in the given seconds.

##### Declaration

```
public virtual bool SelfTestRequired(int remainingSeconds)
```

##### Parameters

Type	Name	Description
------	------	-------------

[int](#) remainingSeconds The time span where the self test is required.

##### Returns

Type	Description
------	-------------

[bool](#) True if a self test is required within the given seconds; otherwise false.

#### StartTransaction(Guid, DocumentType)

Starts a transaction on the technical security system (tse).

##### Declaration

```
public TseResponse StartTransaction(Guid clientId, DocumentType documentType)
```

##### Parameters

Type	Name	Description
------	------	-------------

[Guid](#) clientId The client where the transaction should occur.

[DocumentType](#) documentType The type of the started document.

##### Returns

Type	Description
------	-------------

[TseResponse](#) A [TseResponse](#) object representing the response of the tse.

#### Exceptions

Type	Condition
<a href="#">ArgumentException</a>	Thrown if the supplied <code>clientId</code> does not match <a href="#">ClientId</a> .
<a href="#">InvalidProgramException</a>	Thrown if the tse was not initialized yet.
<a href="#">InvalidOperationException</a>	Thrown if tse is not in status connected or connectedWarning.

#### StartTransactionImplementation(Guid, string)

Implementation method for [StartTransaction\(Guid, DocumentType\)](#).

#### Declaration

```
protected abstract TseResponse StartTransactionImplementation(Guid clientId, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client where the transaction should occur.
<a href="#">string</a>	processType	The processType of the started transaction; mapped out of the document type.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### UpdateTime()

Updates the time on the tse to the actual computer time.

#### Declaration

```
public virtual void UpdateTime()
```

#### WaitForBoot()

Waits until the starting process is completed.

#### Declaration

```
public virtual void WaitForBoot()
```

#### Remarks

Only necessary if tse needs a start process.

# Enum TseStatus

Represents the status of the connected tse.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter (typeof (StringEnumConverter) ) ]  
[TypeConverter (typeof (EnumMemberEnumConverter) ) ]  
public enum TseStatus
```

## Fields

Name	Description
Connected	Tse is connected or can connected without problems.
ConnectedWarning	Tse is connected or can connected without problem, but remaining signature counter is low.
Critical	Tse critical error, for instance: invalid credentials at logon.
Decommissioned	Tse is decommissioned.
Disconnected	Tse is disconnected or cannot be connected.
NotInitialized	Tse is not initialized.
Starting	Tse is booting (starting up), needed for hardware tse's

# Class TseWarning

Class for storing tse errors / warnings.

## Inheritance

[object](#)

TseWarning

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseWarning
```

## Properties

### CertificateLifespanWarningSent

The end date of the tse certificate information is sent on.

#### Declaration

```
public DateTime? CertificateLifespanWarningSent { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime?</a>	
---------------------------	--

### TseFailureDateTime

The failure date from the tse.

#### Declaration

```
public DateTime? TseFailureDateTime { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime?</a>	
---------------------------	--

### TseFailureInformationSent

True if failure information was sent already.

#### Declaration

```
public bool TseFailureInformationSent { get; set; }
```

#### Property Value

## Type Description

[bool](#)

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly

## Classes

### [ClientListResponse](#)

Class to get list of clients from fiskaly tse.

### [ClientListResponse.ArrayData](#)

## [Constants](#)

### [FiskalyConnector](#)

Represents the connection to the fiskaly tse cloud.

### [TransactionListResponse](#)

### [TssDeletedException](#)

# Class ClientListResponse

Class to get list of clients from fiskaly tse.

## Inheritance

[object](#)

ClientListResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientListResponse
```

## Properties

### Count

Number of available data items

#### Declaration

```
public int Count { get; set; }
```

#### Property Value

### Type Description

[int](#)

### Data

Array of data objects.

#### Declaration

```
public ClientListResponse.ArrayData[] Data { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ArrayData[]</a>	
-----------------------------	--

# Class ClientListResponse.ArrayData

## Inheritance

[object](#)

ClientListResponse.ArrayData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientListResponse.ArrayData
```

## Properties

### Id

The id of the client.

#### Declaration

```
[JsonProperty("_id")]  
public Guid Id { get; set; }
```

#### Property Value

### Type Description

[Guid](#)

### SerialNumber

The serial number of the registered client.

#### Declaration

```
[JsonProperty("serial_number")]  
public string SerialNumber { get; set; }
```

#### Property Value

### Type Description

[string](#)

### TimeCreation

A timestamp / point in time measured in seconds since the Unix epoch

#### Declaration

```
[JsonProperty("time_creation")]  
public int TimeCreation { get; set; }
```

#### Property Value



## Type Description

[int](#)

## TimeUpdate

A timestamp / point in time measured in seconds since the Unix epoch

### Declaration

```
[JsonProperty("time_update")]  
public int TimeUpdate { get; set; }
```

### Property Value

## Type Description

[int](#)

## TssId

Identifies a TSS

### Declaration

```
[JsonProperty("tss_id")]  
public Guid TssId { get; set; }
```

### Property Value

## Type Description

[Guid](#)

# Class Constants

## Inheritance

[object](#)

Constants

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class Constants
```

## Fields

### BaseAddress

#### Declaration

```
public const string BaseAddress = "https://kassensichv-middleware.fiskaly.com/api/v2"
```

#### Field Value

## Type Description

[string](#)

# Class FiskalyConnector

Represents the connection to the fiskaly tse cloud.

## Inheritance

[object](#)

[LoggingBase](#)

[RestServiceBasicClient<ApiError>](#)

[RestServiceClient<AuthenticationResponse, ApiError>](#)

FiskalyConnector

## Inherited Members

[RestServiceClient<AuthenticationResponse, ApiError>.Authenticated](#)

[RestServiceClient<AuthenticationResponse, ApiError>.Authenticate\(string, string\)](#)

[RestServiceClient<AuthenticationResponse, ApiError>.Authenticate\(string\)](#)

[RestServiceClient<AuthenticationResponse, ApiError>.SignOut\(\)](#)

[RestServiceClient<AuthenticationResponse, ApiError>.GetDownloadFile\(string, string, params Parameter\[\]\)](#)

[RestServiceClient<AuthenticationResponse, ApiError>.GetDownloadStream\(string, Stream, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.AdditionalParameters](#)

[RestServiceBasicClient<ApiError>.UseNewtonsoftSerialization](#)

[RestServiceBasicClient<ApiError>.Get<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Post\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Post<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Put\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Put<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Patch\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Patch<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Head\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Head<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Delete\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiError>.Delete<TReturnType>\(string, object, params Parameter\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class FiskalyConnector : RestServiceClient<AuthenticationResponse, ApiError>
```

## Constructors

**FiskalyConnector(string, string, ILogger, string, int, ProxyConfiguration)**

Constructor.

## Declaration

```
public FiskalyConnector(string apiKey, string apiSecret, ILogger logger, string baseAddress, int commandTimeout = 3000, ProxyConfiguration proxyConfiguration = null)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	apiKey	The api key for the access to the fiskaly api.
<a href="#">string</a>	apiSecret	The api secret to access the fiskaly api.
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">string</a>	baseAddress	The base address for the fiskaly connection (to connect middleware or management api).
<a href="#">int</a>	commandTimeout	The command timeout in milliseconds when accessing the fiskaly http api. If set to 0 then it infinite.

ProxyConfiguration proxyConfiguration Optional. Can be used to use proxy for communication with the rest service.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>apiKey</code> , <code>apiSecret</code> or <code>logger</code> are set to null (or empty string).
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>baseAddress</code> is set to null or <a href="#">Empty</a> .

## Properties

**FetchGivenTransactionNotStartetd**

## Declaration

```
public bool FetchGivenTransactionNotStartetd { get; set; }
```

Property Value

#### Type Description

[bool](#)

#### Methods

##### AuthenticateImplementation(string)

Method to override. Do authentication with the given refresh token and return `RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorModel>.AuthenticationResponse`.

##### Declaration

```
protected override AuthenticationResponse AuthenticateImplementation(string refreshToken)
```

##### Parameters

Type	Name	Description
<a href="#">string</a>	refreshToken	The refresh token (of an prior authentication) to authenticate.

##### Returns

Type	Description
<a href="#">AuthenticationResponse</a>	An <code>RetailForce.Common.RestServiceClient&lt;TAuthenticationResponse, TApiErrorModel&gt;.AuthenticationResponse</code> object containing Jwt and RefreshToken. Should return null if authentication fails.

##### Overrides

[RestServiceClient<AuthenticationResponse, ApiError>.AuthenticateImplementation\(string\)](#)

##### AuthenticateImplementation(string, string)

Method to override. Do authentication with key/secret and return `RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorModel>.AuthenticationResponse`.

##### Declaration

```
protected override AuthenticationResponse AuthenticateImplementation(string key, string secret)
```

##### Parameters

Type	Name	Description
<a href="#">string</a>	key	The key (or also username) for authentication.
<a href="#">string</a>	secret	The secret (or possible also password) for authentication.

##### Returns

Type	Description
<a href="#">AuthenticationResponse</a>	An <code>RetailForce.Common.RestServiceClient&lt;TAuthenticationResponse, TApiErrorModel&gt;.AuthenticationResponse</code> object containing Jwt and RefreshToken. Should return null if authentication fails.

##### Overrides

[RestServiceClient<AuthenticationResponse, ApiError>.AuthenticateImplementation\(string, string\)](#)

##### ProcessResponseError(string, IRestResponse)

Method to override. In this method you can react on http error messages.

##### Declaration

```
protected override void ProcessResponseError(string errorMessage, IRestResponse response)
```

##### Parameters

Type	Name	Description
<a href="#">string</a>	errorMessage	The parsed error message (if applicable).

`IRestResponse response` The `RestSharp.IRestResponse` which was not successful containing the error parameters.

##### Overrides

[RestServiceBasicClient<ApiError>.ProcessResponseError\(string, IRestResponse\)](#)

##### Remarks

In the normal case you should raise exception in the case of http error codes. This function is done to do the mapping.

##### ProcessResponseError<TReturnType>(IRestResponse<TReturnType>)

In this method the rest response will be checked for `TApiErrorModel`. If yes, this error model is used to get error message.

##### Declaration

```
protected override void ProcessResponseError<TReturnType>(IRestResponse<TReturnType> response)
```

#### Parameters

Type	Name	Description
IRestResponse<TReturnType>	response	The RestSharp.IRestResponse<T> which was not successful containing the error parameters.

#### Type Parameters

Name	Description
TReturnType	The return type of the request (without error).

#### Overrides

RetailForce.Common.RestServiceBasicClient<RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model.ApiError>.ProcessResponseError<TReturnType>(RestSharp.IRestResponse<TReturnType>)

#### Remarks

This method calls [ProcessResponseError\(string, IRestResponse\)](#) to execute exception/status code mapping.

#### ProcessSignOut()

Method to override. This method is called to implement a possible sign out procedure.

#### Declaration

```
protected override void ProcessSignOut()
```

#### Overrides

RetailForce.Common.RestServiceClient<RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model.AuthenticationResponse, RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model.ApiError>.ProcessSignOut()

#### Remarks

If you don't want to implement a possible sign out procedure, just leave the procedure blank.

# Class TransactionListResponse

## Inheritance

[object](#)

TransactionListResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionListResponse
```

## Properties

### Data

#### Declaration

```
[JsonProperty("data")]  
public List<TransactionResponse> Data { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;TransactionResponse&gt;</a>	

# Class TssDeletedException

## Inheritance

[object](#)  
[Exception](#)  
TssDeletedException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TssDeletedException : Exception, ISerializable
```

## Implements

[ISerializable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model

## Classes

### [ApiError](#)

### [ApiKeyAuthentication](#)

### [AuthenticationResponse](#)

### [CreateClientRequest](#)

Request body to create a new client at fiskaly.

### [CreateClientResponse](#)

The response of the client request.

### [FiskalyDataResponse<TType>](#)

### [TransactionData](#)

Represents the data for the transaction to fiskaly tse (processData = [Binary](#)).

### [TransactionPayload](#)

The transaction payload to sign a request with the cloud.

### [TransactionPayloadSchema](#)

Additional necessary class for V2.

### [TransactionResponse](#)

Represents the response of the fiskaly cloud tse.

### [TransactionResponse.SignatureClass](#)

Represents a signature object of the [TransactionResponse](#)

### [Tss](#)

Represents a fiskaly technical security system (tse)

### [TssRequest](#)

## Enums

### [TransactionState](#)



# Class ApiError

## Inheritance

[object](#)  
ApiErrorModel  
ApiError

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ApiError : ApiErrorModel
```

## Properties

### Code

#### Declaration

```
[JsonProperty("code")]  
public string Code { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Message

#### Declaration

```
[JsonProperty("message")]  
public override string Message { get; set; }
```

#### Property Value

### Type Description

[string](#)

## Overrides

RetailForce.Common.ApiErrorModel.Message

### StatusCode

#### Declaration

```
[JsonProperty("status_code")]  
public override int StatusCode { get; set; }
```

#### Property Value

## Type Description

[int](#)

## Overrides

RetailForce.Common.ApiErrorModel.StatusCode

# Class ApiKeyAuthentication

## Inheritance

[object](#)

ApiKeyAuthentication

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ApiKeyAuthentication
```

## Properties

### ApiKey

#### Declaration

```
[JsonProperty("api_key")]  
public string ApiKey { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ApiSecret

#### Declaration

```
[JsonProperty("api_secret")]  
public string ApiSecret { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class AuthenticationResponse

## Inheritance

[object](#)

AuthenticationResponse

AuthenticationResponse

## Inherited Members

AuthenticationResponse.RefreshTokenExpires

AuthenticationResponse.JwtTokenExpires

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AuthenticationResponse : AuthenticationResponse
```

## Properties

### JwtToken

The jwt token for bearer authentication.

#### Declaration

```
[JsonProperty("access_token")]  
public override string JwtToken { get; set; }
```

#### Property Value

### Type Description

[string](#)

#### Overrides

RetailForce.Common.AuthenticationResponse.JwtToken

### JwtTokenExpiresAt

Unix time stamp when jwt token expires.

#### Declaration

```
[JsonProperty("access_token_expires_at")]  
public override long JwtTokenExpiresAt { get; set; }
```

#### Property Value

### Type Description

[long](#)

#### Overrides

RetailForce.Common.AuthenticationResponse.JwtTokenExpiresAt

## **RefreshToken**

The refresh token to refresh RetailForce.Common.AuthenticationResponse.JwtToken.

### **Declaration**

```
[JsonProperty("refresh_token")]  
public override string RefreshToken { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

### **Overrides**

RetailForce.Common.AuthenticationResponse.RefreshToken

## **RefreshTokenExpiresAt**

Unix time stamp when refresh token expires.

### **Declaration**

```
[JsonProperty("refresh_token_expires_at")]  
public override long RefreshTokenExpiresAt { get; set; }
```

### **Property Value**

### **Type Description**

[long](#)

### **Overrides**

RetailForce.Common.AuthenticationResponse.RefreshTokenExpiresAt

# Class CreateClientRequest

Request body to create a new client at fiskaly.

## Inheritance

[object](#)

CreateClientRequest

[CreateClientResponse](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CreateClientRequest
```

## Properties

### SerialNumber

The serial number of the client.

### Declaration

```
[JsonProperty("serial_number")]  
public string SerialNumber { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class CreateClientResponse

The response of the client request.

## Inheritance

[object](#)  
[CreateClientRequest](#)  
CreateClientResponse

## Inherited Members

[CreateClientRequest.SerialNumber](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tsc.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CreateClientResponse : CreateClientRequest
```

## Remarks

Not all fields are mapped.

# Class FiskalyDataResponse<TType>

## Inheritance

[object](#)

FiskalyDataResponse<TType>

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiskalyDataResponse<TType>
```

## Type Parameters

### Name Description

TType

## Properties

### Count

#### Declaration

```
[JsonProperty("count")]  
public int Count { get; set; }
```

#### Property Value

### Type Description

[int](#)

### Data

#### Declaration

```
[JsonProperty("data")]  
public List<TType> Data { get; set; }
```

#### Property Value

### Type Description

[List<TType>](#)



# Class TransactionData

Represents the data for the transaction to fiskaly tse (processData = [Binary](#)).

## Inheritance

[object](#)

TransactionData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionData
```

## Constructors

### TransactionData(TseRequest)

Constructor.

#### Declaration

```
public TransactionData(TseRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">TseRequest</a>	request	The request for the transaction.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>request</code> is set to null.

### TransactionData(string)

Constructor.

#### Declaration

```
public TransactionData(string processType)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	processType	The process type for this data.

## Properties

### Binary

Base 64 encoded utf8 string of the processData element.

#### Declaration

```
[JsonProperty("process_data", NullValueHandling = NullValueHandling.Ignore)]  
[JsonRequired]  
public string Binary { get; }
```

#### Property Value

#### Type Description

[string](#)

### Type

The Type of the transaction. This is the processType according to "Anwendungserlass zu §146a AO".

#### Declaration

```
[JsonProperty("process_type", NullValueHandling = NullValueHandling.Ignore)]  
public string Type { get; }
```

#### Property Value

#### Type Description

[string](#)

# Class TransactionPayload

The transaction payload to sign a request with the cloud.

## Inheritance

[object](#)

TransactionPayload

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionPayload
```

## Constructors

### TransactionPayload(Guid, TransactionState)

Constructor. Used to create a transaction. (private)

#### Declaration

```
public TransactionPayload(Guid clientId, TransactionState state)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client for the transaction.
<a href="#">TransactionState</a>	state	The state for the transaction.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>clientId</code> is set to <a href="#">Empty</a> .

### TransactionPayload(Guid, TransactionState, TseRequest)

Constructor. Used to finish a transaction.

#### Declaration

```
public TransactionPayload(Guid clientId, TransactionState state, TseRequest request)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Guid</a>	clientId	The client for the transaction.
<a href="#">TransactionState</a>	state	The state for the transaction.
<a href="#">TseRequest</a>	request	The request for the transaction. Depending on <code>state</code> if necessary. For more information see <a href="#">State</a> .

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>request</code> is set to null.

### TransactionPayload(Guid, TransactionState, string)

Constructor. Used to cancel a transaction.

#### Declaration

```
public TransactionPayload(Guid clientId, TransactionState state, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	clientId	The client for the transaction.
<a href="#">TransactionState</a>	state	The state for the transaction.
<a href="#">string</a>	processType	The processType for the transaction. Possible types are "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>clientId</code> is set to <a href="#">Empty</a> .
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

## Properties

### ClientId

The client id for the transaction.

#### Declaration

```
[JsonRequired]
[JsonProperty("client_id")]
public Guid ClientId { get; }
```

#### Property Value

## Type Description

[Guid](#)

### Schema

The data for the request in V2 format (schema.raw).

#### Declaration

```
[JsonProperty("schema")]  
public TransactionPayloadSchema Schema { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransactionPayloadSchema</a>	

### State

The state for the transaction.

#### Declaration

```
[JsonConverter(typeof(TransactionStateConverter))]  
[JsonProperty("state")]  
[JsonRequired]  
public TransactionState State { get; }
```

#### Property Value

Type	Description
<a href="#">TransactionState</a>	

#### Remarks

When using [Active](#) do not send a [TseRequest](#) in the constructor. When using [Finished](#) a [TseRequest](#) has to be send in the constructor.

# Class TransactionPayloadSchema

Additional necessary class for V2.

## Inheritance

[object](#)

TransactionPayloadSchema

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionPayloadSchema
```

## Constructors

### TransactionPayloadSchema(TransactionData)

Constructor.

## Declaration

```
public TransactionPayloadSchema(TransactionData data)
```

## Parameters

Type	Name	Description
<a href="#">TransactionData</a>	data	The data for the request.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>data</code> is set to null.

## Properties

### Data

The data of the transaction. Binary value (base64 encoded utf8 string). This is the processData according to "Anwendungserlass zu §146a AO".

## Declaration

```
[JsonProperty("raw", NullValueHandling = NullValueHandling.Ignore)]  
[JsonRequired]  
public TransactionData Data { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#"><u>TransactionData</u></a>	
--	--

# Class TransactionResponse

Represents the response of the fiskaly cloud tse.

## Inheritance

[object](#)

TransactionResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionResponse
```

## Fields

### LatestRevision

The actual latest revision of the signed transaction.

#### Declaration

```
[JsonProperty("latest_revision")]  
public int LatestRevision
```

#### Field Value

### Type Description

[int](#)

### Number

The number of the transaction.

#### Declaration

```
[JsonProperty("number")]  
public int Number
```

#### Field Value

### Type Description

[int](#)

### QrCodeDataString

The qr code data string of the transaction response.

#### Declaration

```
[JsonProperty("qr_code_data")]  
public string QrCodeDataString
```



## Field Value

### Type Description

[string](#)

## Signature

The signature values of the signed transaction.

## Declaration

```
[JsonProperty("signature")]  
public TransactionResponse.SignatureClass Signature
```

## Field Value

Type	Description
------	-------------

<a href="#">TransactionResponse.SignatureClass</a>	
--	--

## State

The state of the signed transaction.

## Declaration

```
[JsonProperty("state")]  
[JsonConverter(typeof(TransactionStateConverter))]  
public TransactionState State
```

## Field Value

Type	Description
------	-------------

<a href="#">TransactionState</a>	
----------------------------------	--

## TimeEnd

The end time of the transaction.

## Declaration

```
[JsonProperty("time_end")]  
public long TimeEnd
```

## Field Value

### Type Description

[long](#)

## Remarks

A timestamp / point in time measured in seconds since the Unix epoch.

## TimeStart

The start time of the transaction.

## Declaration

```
[JsonProperty("time_start")]  
public long TimeStart
```

## Field Value

### Type Description

**Type Description**

[long](#)

**Remarks**

A timestamp / point in time measured in seconds since the Unix epoch.

# Class TransactionResponse.SignatureClass

Represents a signature object of the [TransactionResponse](#)

## Inheritance

[object](#)

TransactionResponse.SignatureClass

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tsc.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionResponse.SignatureClass
```

## Fields

### Algorithm

The signature algorithm of the signed transaction.

#### Declaration

```
[JsonProperty("algorithm")]  
public string Algorithm
```

#### Field Value

### Type Description

[string](#)

### Counter

#### Declaration

```
[JsonProperty("counter")]  
public int Counter
```

#### Field Value

### Type Description

[int](#)

### PublicKey

#### Declaration

```
[JsonProperty("public_key")]  
public string PublicKey
```

#### Field Value

**Type Description**

[string](#)

**Value**

The signature value of the signed transaction.

**Declaration**

```
[JsonProperty("value")]  
public string Value
```

**Field Value****Type Description**

[string](#)

# Enum TransactionState

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TransactionState
```

## Fields

Name	Description
Active	
Cancelled	
Finished	

# Class Tss

Represents a fiskaly technical security system (tse)

## Inheritance

[object](#)

[TssRequest](#)

Tss

## Inherited Members

[TssRequest.Metadata](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Tss : TssRequest
```

## Properties

### AdminPuk

The admin puk for the tse.

#### Declaration

```
[JsonProperty("admin_puk")]  
public string AdminPuk { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Certificate

Certificate of the tss.

#### Declaration

```
[JsonProperty("certificate")]  
public string Certificate { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CertificateSerial

Serial number of the certificate of tss.

#### Declaration

```
[JsonProperty("serial_number")]
public string CertificateSerial { get; set; }
```

**Property Value**

### Type Description

[string](#)

### Description

The description of the tss.

### Declaration

```
[JsonProperty("description")]
public string Description { get; set; }
```

**Property Value**

### Type Description

[string](#)

### PublicKey

The cryptographic public key of the tss.

### Declaration

```
[JsonProperty("public_key")]
public string PublicKey { get; set; }
```

**Property Value**

### Type Description

[string](#)

### SignatureAlgorithm

The used signature algorithm of the tss.

### Declaration

```
[JsonProperty("signature_algorithm")]
public string SignatureAlgorithm { get; set; }
```

**Property Value**

### Type Description

[string](#)

### SignatureCounter

The actual signature counter of the tss.

### Declaration

```
[JsonProperty("signature_counter")]
public long SignatureCounter { get; set; }
```

**Property Value**

### Type Description

[long](#)

## SignatureTimestampFormat

The timestamp format of the signature time stamp.

### Declaration

```
[JsonProperty("signature_timestamp_format")]  
public string SignatureTimestampFormat { get; set; }
```

### Property Value

### Type Description

[string](#)

### State

The state of the tss.

### Declaration

```
[JsonProperty("state")]  
public string State { get; set; }
```

### Property Value

### Type Description

[string](#)

### Remarks

Possible values are: "UNINITIALIZED","INITIALIZED" and "DISABLED"

### TimeCreation

Creation time of the tss.

### Declaration

```
[JsonProperty("time_creation")]  
public long TimeCreation { get; set; }
```

### Property Value

### Type Description

[long](#)

### TimeDisable

Time when the tss is disabled.

### Declaration

```
[JsonProperty("time_disable")]  
public long TimeDisable { get; set; }
```

### Property Value

### Type Description

[long](#)

### TimeInit

Initialisation time of the tss.



#### **Declaration**

```
[JsonProperty("time_init")]  
public long TimeInit { get; set; }
```

#### **Property Value**

#### **Type Description**

[long](#)

#### **TransactionCounter**

The actual transaction of the tss.

#### **Declaration**

```
[JsonProperty("transaction_counter")]  
public long TransactionCounter { get; set; }
```

#### **Property Value**

#### **Type Description**

[long](#)

#### **TransactionDataEncoding**

The data encoding of the tss.

#### **Declaration**

```
[JsonProperty("transaction_data_encoding")]  
public string TransactionDataEncoding { get; set; }
```

#### **Property Value**

#### **Type Description**

[string](#)

#### **id**

The fiskaly id of the tss.

#### **Declaration**

```
[JsonProperty("_id")]  
public string id { get; set; }
```

#### **Property Value**

#### **Type Description**

[string](#)

# Class TssRequest

## Inheritance

[object](#)

TssRequest

[Tss](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TssRequest
```

## Properties

### Metadata

Meta properties (string dictionary).

### Declaration

```
[JsonProperty("metadata")]  
public Dictionary<string, string> Metadata { get; set; }
```

### Property Value

Type	Description
<a href="#">Dictionary&lt;string, string&gt;</a>	

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse.Model

## Classes

### [TseExportResponse](#)

Response class for export calls.

### [TseFinishResponse](#)

### [TseOrder](#)

Long term order processes/transactions (for example in gastronomy). This transactions have to be realized through this special operation. Just orders are used with this process, creating an invoice or receipt has to be done with [TseReceipt](#).

Type of the process: "Bestellung". ProcessType: "Bestellung-V1".

### [TseOrder.TseOrderLine](#)

Represents an order line in a [TseOrder](#) request.

### [TseOtherTransaction](#)

It is possible to use the technical security system (tse/tss) to secure any other data.

### [TsePayment](#)

Represents the payment data in a tse receipt.

### [TseReceipt](#)

Represents a receipt which is signed and calculated by the tse. Used for all closed processes which lead to issue a receipt (see §146a Abs. 2 AO)

Type of the process: "Kassenbeleg". ProcessType: "Kassenbeleg-V1".

### [TseRequest](#)

Base class for a tse request (processData).

### [TseRequestFormatBase](#)

Base class for tse requests with special functions to format the data.

### [TseResponse](#)

Represents the return value of the tse after signing the transaction.

# Class TseExportResponse

Response class for export calls.

## Inheritance

[object](#)

TseExportResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseExportResponse
```

## Remarks

Only necessary fields are implemented.

## Properties

### Exception

The exception if exception occurs.

### Declaration

```
public string Exception { get; set; }
```

### Property Value

### Type Description

[string](#)

### State

The state of the export: "CANCELLED" "PENDING" "WORKING" "COMPLETED" "ERROR"

### Declaration

```
public string State { get; set; }
```

### Property Value

### Type Description

[string](#)

### Tss\_Id

The id of the tss.

### Declaration

```
public Guid Tss_Id { get; set; }
```

**Property Value**

**Type Description**

[Guid](#)

# Class TseFinishResponse

## Inheritance

[object](#)  
[TseResponse](#)  
TseFinishResponse

## Inherited Members

[TseResponse.TransactionNumber](#)  
[TseResponse.LastTransactionRevision](#)  
[TseResponse.TransactionStartTime](#)  
[TseResponse.TransactionEndTime](#)  
[TseResponse.Signature](#)  
[TseResponse.TseSignatureCounter](#)  
[TseResponse.ProcessData](#)  
[TseResponse.ProcessType](#)  
[TseResponse.ErrorDescription](#)  
[TseResponse.TseSerial](#)  
[TseResponse.TseTimeFormat](#)  
[TseResponse.TseHashAlgorithm](#)  
[TseResponse.TsePublicKey](#)  
[TseResponse.PrintMessage](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseFinishResponse : TseResponse
```

## Constructors

**TseFinishResponse(TseResponse, string)**

## Declaration

```
public TseFinishResponse(TseResponse response, string qrCodeDataString)
```

## Parameters

Type	Name	Description
<a href="#">TseResponse</a>	response	
<a href="#">string</a>	qrCodeDataString	

## Properties

### QrCodeDataString

The qrcode data string (for printing a qr code at the receipt).

## Declaration

```
public string QrCodeDataString { get; }
```

Property Value

Type Description

[string](#)

# Class TseOrder

Long term order processes/transactions (for example in gastronomy). This transactions have to be realized through this special operation. Just orders are used with this process, creating an invoice or receipt has to be done with [TseReceipt](#).

Type of the process: "Bestellung". ProcessType: "Bestellung-V1".

## Inheritance

[object](#)  
[TseRequestFormatBase](#)  
[TseRequest](#)  
TseOrder

## Inherited Members

[TseRequest.PROCESSTYPE\\_ORDER](#)  
[TseRequest.PROCESSTYPE\\_RECEIPT](#)  
[TseRequest.PROCESSTYPE\\_OTHERPROCESS](#)  
[TseRequest.TransactionNumber](#)  
[TseRequest.TransactionRevision](#)  
[TseRequest.ProcessData](#)  
[TseRequestFormatBase.FormatNumber\(long\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseOrder : TseRequest
```

## Remarks

For more information concerning using this type see "Anwendungserlass zu §146a AO" chapter 3.6.6.2 (german law) and actual description of "DSFin-VK, Anhang I Definition "Art" und "Daten" des Vorgangs; QR-Code.

## Constructors

**TseOrder(int, int, List<TseOrderLine>)**

Constructor.

## Declaration

```
public TseOrder(int transactionNumber, int transactionRevision, List<TseOrder.TseOrderLine> orderlineList)
```

## Parameters

Type	Name	Description
<a href="#">int</a>	transactionNumber	The transaction number of the request.
<a href="#">int</a>	transactionRevision	The transaction revision of the request.



Type	Name	Description
<a href="#">List&lt;TseOrder.TseOrderLine&gt;</a>	orderlineList	A list of tse order line objects. A tse order line represents a single order line in an order process.

## Properties

### OrderlineList

Represents a list of [TseOrder.TseOrderLine](#) objects.

#### Declaration

```
public IReadOnlyList<TseOrder.TseOrderLine> OrderlineList { get; }
```

#### Property Value

Type	Description
<a href="#">IReadOnlyList&lt;TseOrder.TseOrderLine&gt;</a>	

### ProcessType

Returns the process type of the request.

#### Declaration

```
public override string ProcessType { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TseRequest.ProcessType](#)

### Separator

Represents the field separator for the string representation of this object.

#### Declaration

```
protected override string Separator { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TseRequestFormatBase.Separator](#)

## Methods

### ToString()

The string representation of this object; Can be used as processData according to TR-03151 ([https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index\\_htm.html](https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index_htm.html)).

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string representing the string representation of this object.
------------------------	---

#### Overrides

[object.ToString\(\)](#)

# Class TseOrder.TseOrderLine

Represents an order line in a [TseOrder](#) request.

## Inheritance

[object](#)

[TseRequestFormatBase](#)

TseOrder.TseOrderLine

## Inherited Members

[TseRequestFormatBase.FormatNumber\(long\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseOrder.TseOrderLine : TseRequestFormatBase
```

## Remarks

For more information concerning using this type see "Anwendungserlass zu §146a AO" chapter 3.6.6.2 (german law) and actual description of "DSFin-VK, Anhang I Definition "Art" und "Daten" des Vorgangs; QR-Code.

## Constructors

### TseOrderLine(decimal, string, decimal)

Constructor.

## Declaration

```
public TseOrderLine(decimal quantity, string itemCaption, decimal grossPrice)
```

## Parameters

Type	Name	Description
<a href="#">decimal</a>	quantity	The quantity of the order of this item. For more information see <a href="#">Quantity</a> .
<a href="#">string</a>	itemCaption	The caption of the item. For more information see <a href="#">ItemCaption</a> .
<a href="#">decimal</a>	grossPrice	The gross price of the order of this item. For more information see <a href="#">GrossPrice</a> .

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>itemCaption</code> is set to null or empty string.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>grossPrice</code> is smaller or equal than 0.

## Properties

### GrossPrice

The gross price of the order of this item per unit (not the value).

#### Declaration

```
public decimal GrossPrice { get; }
```

#### Property Value

#### Type Description

[decimal](#)

#### Remarks

Use Field "BRUTTO" of DSFinV-K. Only 2 digits are transferred.

### ItemCaption

The caption of the item.

#### Declaration

```
public string ItemCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Remarks

Use Field "ARTIKELTEXT" of DSFinV-K.

### Quantity

The quantity of the order of this item.

#### Declaration

```
public decimal Quantity { get; }
```

#### Property Value

#### Type Description

[decimal](#)

#### Remarks

Use Field "MENGE" of DSFinV-K. Can have more than 2 digits.

### Separator

Represents the field separator for the string representation of this object.

#### Declaration

```
protected override string Separator { get; }
```

#### Property Value

## Type Description

[string](#)

### Overrides

[TseRequestFormatBase.Separator](#)

## Methods

### ToString()

The string representation of this object; Is a part of processData according to TR-03151 ([https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index\\_htm.html](https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index_htm.html)).

### Declaration

```
public override string ToString()
```

### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string representing the string representation of this object.
------------------------	---

### Overrides

[object.ToString\(\)](#)

### Remarks

Format of quantity can have more than 2 digits. Price does not have more than 2 digits.

# Class TseOtherTransaction

It is possible to use the technical security system (tse/tss) to secure any other data.

## Inheritance

[object](#)  
[TseRequestFormatBase](#)  
[TseRequest](#)  
TseOtherTransaction

## Inherited Members

[TseRequest.PROCESSTYPE\\_ORDER](#)  
[TseRequest.PROCESSTYPE\\_RECEIPT](#)  
[TseRequest.PROCESSTYPE\\_OTHERPROCESS](#)  
[TseRequest.TransactionNumber](#)  
[TseRequest.TransactionRevision](#)  
[TseRequest.ProcessData](#)  
[TseRequestFormatBase.FormatNumber\(long\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseOtherTransaction : TseRequest
```

## Remarks

This type of process should be used if the system wants to store for instance opening the cash drawer or logon/logoff of an user. There is no regulation concerning the content ([Data](#)) for this element by the fiscal law.

For more information concerning using this type see "Anwendungserlass zu §146a AO" chapter 3.6.6.3 (german law) and actual description of "DSFin-VK, Anhang I Definition "Art" und "Daten" des Vorgangs; QR-Code.

## Constructors

### TseOtherTransaction(int, int, string)

Constructor.

## Declaration

```
public TseOtherTransaction(int transactionNumber, int transactionRevision, string data)
```

## Parameters

Type	Name	Description
<a href="#">int</a>	transactionNumber	The transaction number of the request.
<a href="#">int</a>	transactionRevision	The transaction revision of the request.
<a href="#">string</a>	data	The data of the transaction, can be every type and defined by the sender.

## Exceptions

### Type

### Condition

[ArgumentNullException](#) Thrown if data is set to null or empty string.

## Properties

### Data

The data of the transaction, can be every type and defined by the sender.

### Declaration

```
public string Data { get; }
```

### Property Value

### Type Description

[string](#)

### ProcessType

Returns the process Type of the request.

### Declaration

```
public override string ProcessType { get; }
```

### Property Value

### Type Description

[string](#)

### Overrides

[TseRequest.ProcessType](#)

### Separator

Represents the field separator for the string representation of this object. Not used in this class.

### Declaration

```
protected override string Separator { get; }
```

### Property Value

### Type Description

[string](#)

### Overrides

[TseRequestFormatBase.Separator](#)

## Methods

### ToString()

The string representation of this object; Can be used as processData according to TR-03151 ([https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index\\_htm.html](https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index_htm.html)).

**Declaration**

```
public override string ToString()
```

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	A string representing the string representation of this object.
------------------------	---

**Overrides**

[object.ToString\(\)](#)



# Class TsePayment

Represents the payment data in a tse receipt.

## Inheritance

[object](#)  
[TseRequestFormatBase](#)  
TsePayment

## Inherited Members

[TseRequestFormatBase.FormatNumber\(long\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TsePayment : TseRequestFormatBase
```

## Constructors

### TsePayment(bool, long, string)

Constructor.

## Declaration

```
public TsePayment(bool cashPayment, long amount, string currencyIsoCode = null)
```

## Parameters

Type	Name	Description
<a href="#">bool</a>	cashPayment	True if the payment was done in cash; otherwise false.
<a href="#">long</a>	amount	The amount of the payment (in the respective currency). The amount is multiplied by 100 (cent representation in eur).
<a href="#">string</a>	currencyIsoCode	The currency iso code for the payment. This must be an iso 4217 currency code. Can be omitted.

## Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>currencyIsoCode</code> is not a standard iso 4217 code.

## Properties

### Amount

The amount of the payment.

## Declaration

```
public long Amount { get; }
```

**Property Value**

**Type Description**

[long](#)

**CashPayment**

True if the payment was done in cash (also foreign currency); otherwise false (creditcards, debitcards, vouchers, etc.)

**Declaration**

```
public bool CashPayment { get; }
```

**Property Value**

**Type Description**

[bool](#)

**CurrencyIsoCode**

The currency iso code for this payment. This must be an iso 4217 currency code.

**Declaration**

```
public string CurrencyIsoCode { get; }
```

**Property Value**

**Type Description**

[string](#)

**Separator**

Represents the field separator for the string representation of this object.

**Declaration**

```
protected override string Separator { get; }
```

**Property Value**

**Type Description**

[string](#)

**Overrides**

[TseRequestFormatBase.Separator](#)

**Methods**

**ToString()**

The string representation of this object; Can be used as processData according to TR-03151 ([https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index\\_htm.html](https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index_htm.html)).

**Declaration**

```
public override string ToString()
```

**Returns**

Type	Description
<a href="#">string</a>	A string representing the string representation of this object.

#### Overrides

[object.ToString\(\)](#)

## Class TseReceipt

Represents a receipt which is signed and calculated by the tse. Used for all closed processes which lead to issue a receipt (see §146a Abs. 2 AO)

Type of the process: "Kassenbeleg". ProcessType: "Kassenbeleg-V1".

### Inheritance

[object](#)  
[TseRequestFormatBase](#)  
[TseRequest](#)  
[TseReceipt](#)

### Inherited Members

[TseRequest.PROCESSTYPE\\_ORDER](#)  
[TseRequest.PROCESSTYPE\\_RECEIPT](#)  
[TseRequest.PROCESSTYPE\\_OTHERPROCESS](#)  
[TseRequest.TransactionNumber](#)  
[TseRequest.TransactionRevision](#)  
[TseRequest.ProcessData](#)  
[TseRequestFormatBase.FormatNumber\(long\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class TseReceipt : TseRequest
```

### Remarks

For more information concerning using this type see "Anwendungserlass zu §146a AO" chapter 3.6.6.1 (german law) and actual description of "DSFin-VK, Anhang I Definition "Art" und "Daten" des Vorgangs; QR-Code.

## Constructors

**TseReceipt(int, int, TransactionType, long, long, long, long, long, TsePayment[])**

Constructor.

### Declaration

```
public TseReceipt(int transactionNumber, int transactionRevision, TransactionType transactionType, long tax1, long tax2, long tax3, long tax4, long tax5, TsePayment[] payments = null)
```

### Parameters

Type	Name	Description
<a href="#">int</a>	transactionNumber	The transaction number of the request.
<a href="#">int</a>	transactionRevision	The transaction revision of the request.
<a href="#">TransactionType</a>	transactionType	The type of the transaction according to regulation of type "Vorgang" of DSFin-VK.
<a href="#">long</a>	tax1	Gross value according to tax rate 19% (common tax rate). EuroCent representation (multiple with 100).
<a href="#">long</a>	tax2	Gross value according to tax rate 7% (reduced tax rate). EuroCent representation (multiple with 100).
<a href="#">long</a>	tax3	Gross value according to "Durchschnittsatz (§24(1)Nr.3 UStG) (10.7%)". EuroCent representation (multiple with 100).
<a href="#">long</a>	tax4	Gross value according to "Durchschnittsatz (§24(1)Nr.1 UStG) (5.5%)". EuroCent representation (multiple with 100).
<a href="#">long</a>	tax5	Gross value according to 0% tax. EuroCent representation (multiple with 100).
<a href="#">TsePayment[]</a>	payments	A list of <a href="#">TsePayment</a> objects representing the payments for this transaction.

### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>transactionNumber</code> or <code>transactionRevision</code> is less 0. Also thrown when <code>transactionType</code> is out of range.

## Properties

### ProcessType

Returns the process Type of the request.

### Declaration

```
public override string ProcessType { get; }
```

### Property Value

### Type Description

[string](#)

### Overrides

[TseRequest.ProcessType](#)

## Separator

Represents the main separator for formatting the request data (ToString method).

### Declaration

```
protected override string Separator { get; }
```

### Property Value

#### Type Description

[string](#)

### Overrides

[TseRequestFormatBase.Separator](#)

## TransactionType

The type of the transaction according to DFKA Taxonomy / DSFin-VK.

### Declaration

```
public TransactionType TransactionType { get; }
```

### Property Value

#### Type Description

[TransactionType](#)

### Remarks

Allowed transaction types are:

## Methods

### AddPayment(bool, long, string)

Adds a payment to the payment collection.

### Declaration

```
public void AddPayment(bool cashPayment, long amount, string currencyIsoCode = null)
```

### Parameters

Type	Name	Description
<a href="#">bool</a>	cashPayment	True if this payment was done by cash; otherwise false.
<a href="#">long</a>	amount	The amount of the payment (multiplied with 100, eg. in EUR this is the cent representation: 3,54 EUR = 354).
<a href="#">string</a>	currencyIsoCode	The currency iso code for the payment.

### Remarks

Foreign currency values have to be sent with the foreign currency value.

### ToString()

The string representation of this object; Can be used as processData according to TR-03151 (<https://www.bsi.bund.de/DE/Publikationen/TechnischeRichtlinien/tr03151/index.htm.html>).

### Declaration

```
public override string ToString()
```

### Returns

#### Type Description

[string](#) A string representing the string representation of this object.

### Overrides

[object.ToString\(\)](#)

# Class TseRequest

Base class for a tse request (processData).

## Inheritance

[object](#)  
[TseRequestFormatBase](#)  
[TseRequest](#)  
[TseOrder](#)  
[TseOtherTransaction](#)  
[TseReceipt](#)

## Inherited Members

[TseRequestFormatBase.FormatNumber\(long\)](#)  
[TseRequestFormatBase.Separator](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class TseRequest : TseRequestFormatBase
```

## Constructors

### TseRequest(int, int)

Constructor.

### Declaration

```
public TseRequest(int transactionNumber, int transactionRevision)
```

### Parameters

Type	Name	Description
<a href="#">int</a>	transactionNumber	The transaction number of the request.
<a href="#">int</a>	transactionRevision	The transaction revision of the request.

## Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if transactionNumber or transactionRevision is less 0.

## Fields

### PROCESSTYPE\_ORDER

### Declaration

```
public const string PROCESSTYPE_ORDER = "Bestellung-V1"
```

**Field Value**

**Type Description**

[string](#)

## PROCESSTYPE\_OTHERPROCESS

**Declaration**

```
public const string PROCESSTYPE_OTHERPROCESS = "SonstigerVorgang"
```

**Field Value**

**Type Description**

[string](#)

## PROCESSTYPE\_RECEIPT

**Declaration**

```
public const string PROCESSTYPE_RECEIPT = "Kassenbeleg-V1"
```

**Field Value**

**Type Description**

[string](#)

## Properties

### ProcessData

The process data for this request. Please refer to DS-FinVK about the content.

**Declaration**

```
public string ProcessData { get; }
```

**Property Value**

**Type Description**

[string](#)

### ProcessType

The process type for this request. Possible types are "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang"

**Declaration**

```
public abstract string ProcessType { get; }
```

**Property Value**

**Type Description**

[string](#)

### TransactionNumber

The transaction number of the request.

**Declaration**

```
public int TransactionNumber { get; }
```

**Property Value**

**Type Description**

[int](#)

**TransactionRevision**

The transaction revision of the request.

**Declaration**

```
public int TransactionRevision { get; }
```

**Property Value**

**Type Description**

[int](#)



# Class TseRequestFormatBase

Base class for tse requests with special functions to format the data.

## Inheritance

[object](#)

TseRequestFormatBase

[TseOrder.TseOrderLine](#)

[TsePayment](#)

[TseRequest](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class TseRequestFormatBase
```

## Properties

### Separator

Represents the main separator for formatting the request data (ToString method).

#### Declaration

```
protected abstract string Separator { get; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### FormatNumber(long)

Formats a number in following format.

#### Declaration

```
protected string FormatNumber(long number)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">long</a> number	A long representing the number to format. The number will be divided by 100 to represent also 2 digits. Therefore the value must be multiplied with 100 before calling this function.
-----------------------------	---

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The formatted number as string.
------------------------	---------------------------------

## Class TseResponse

Represents the return value of the tse after signing the transaction.

### Inheritance

[object](#)  
[TseResponse](#)  
[TseFinishResponse](#)

### Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class TseResponse
```

### Constructors

**TseResponse(int, int, string, string, string, long, long, long, string, string, string, string, string)**

Constructor.

### Declaration

```
public TseResponse(int transactionNumber, int lastTransactionRevision, string processData, string processType, string signature, long signatureCounter, long timeStart, long timeEnd, string errorDescription, string tseSerial, string tseTimeFormat, string tseHashAlgorithm, string tsePublicKey, string printMessage)
```

### Parameters

Type	Name	Description
<a href="#">int</a>	transactionNumber	The transaction number of the currently signed transaction.
<a href="#">int</a>	lastTransactionRevision	The transaction revision of the currently signed transaction.
<a href="#">string</a>	processData	The process data of the signed transaction. Binary value (base64 encoded utf8 string). This is the processData according to "Anwendungserlass zu §146a AO".
<a href="#">string</a>	processType	The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".
<a href="#">string</a>	signature	The signature of the tss for the signed transaction.
<a href="#">long</a>	signatureCounter	The actual signature counter of the tss after signing the transaction.
<a href="#">long</a>	timeStart	The start time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
<a href="#">long</a>	timeEnd	The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	tseSerial	The serialnumber of the tss module.
<a href="#">string</a>	tseTimeFormat	The time format which is used by the tss.
<a href="#">string</a>	tseHashAlgorithm	The hash algorithm which is used by the tss.
<a href="#">string</a>	tsePublicKey	The public key of the tss.
<a href="#">string</a>	printMessage	A possible print message for the fiscal response

### Properties

#### ErrorDescription

The error description if the fiscalisation process failed. Empty if everything went well.

#### Declaration

```
public string ErrorDescription { get; }
```

#### Property Value

#### Type Description

[string](#)

#### LastTransactionRevision

The transaction revision of the currently signed transaction.

#### Declaration

```
public int LastTransactionRevision { get; }
```

#### Property Value

#### Type Description

[int](#)

#### PrintMessage

A possible print message for the fiscal response

#### Declaration

```
public string PrintMessage { get; }
```

#### Property Value

#### Type Description

[string](#)

#### ProcessData

The process data of the signed transaction. Binary value (base64 encoded utf8 string). This is the processData according to "Anwendungserlass zu §146a AO".

#### Declaration

```
public string ProcessData { get; }
```

#### Property Value

#### Type Description

[string](#)

#### ProcessType

The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO". May not be null

#### Declaration

```
public string ProcessType { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Signature

The signature of the tss for the signed transaction.

#### Declaration

```
public string Signature { get; }
```

#### Property Value

#### Type Description

[string](#)

#### TransactionEndTime

The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.

#### Declaration

```
public long TransactionEndTime { get; }
```

#### Property Value

#### Type Description

[long](#)

#### TransactionNumber

The transaction number of the currently signed transaction.

#### Declaration

```
public int TransactionNumber { get; }
```

#### Property Value

#### Type Description

[int](#)

#### TransactionStartTime

The start time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.

#### Declaration

```
public long TransactionStartTime { get; }
```

#### Property Value

#### Type Description

[long](#)

#### TseHashAlgorithm

The hash algorithm which is used by the tss.

**Declaration**

```
public string TseHashAlgorithm { get; }
```

**Property Value****Type Description**

[string](#)

**TsePublicKey**

The public key of the tss.

**Declaration**

```
public string TsePublicKey { get; }
```

**Property Value****Type Description**

[string](#)

**TseSerial**

The serialnumber of the tss module.

**Declaration**

```
public string TseSerial { get; }
```

**Property Value****Type Description**

[string](#)

**TseSignatureCounter**

The actual signature counter of the tss after signing the transaction.

**Declaration**

```
public long TseSignatureCounter { get; }
```

**Property Value****Type Description**

[long](#)

**TseTimeFormat**

The time format which is used by the tss.

**Declaration**

```
public string TseTimeFormat { get; }
```

**Property Value****Type Description**

[string](#)

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit

## Classes

### [ByteArrayConverterBase](#)

Basic class to convert data from or to a 512 byte bytearray.

### [SwissbitCommandException](#)

Represents a swissbit command exception (Raised if command fails).

### [SwissbitFileCommunication](#)

### [SwissbitHardwareDevice](#)

Represents a local swissbit information class.

### [TseFileAccess](#)

### [TseTarDataHead](#)

Represents the tar data head when exporting tar data.

## Interfaces

### [ISwissbitCommunication](#)

Interface for native tse communication.

### [ISwissbitCreator](#)

Creates

## Enums

### [TransactionType](#)

The transaction type for sending transactions to the tse (Start, Update, Finish).

# Class ByteArrayConverterBase

Basic class to convert data from or to a 512 byte bytearray.

## Inheritance

[object](#)

ByteArrayConverterBase

[TseCommandResponse](#)

[SwissbitStatus](#)

[TseTarDataHead](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class ByteArrayConverterBase
```

## Constructors

### ByteArrayConverterBase(byte[])

Constructor.

#### Declaration

```
public ByteArrayConverterBase(byte[] byteArray)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	byteArray	The byte array for the conversion functions.
------------------------	-----------	--

## Fields

### ByteArray

#### Declaration

```
protected byte[] ByteArray
```

#### Field Value

#### Type Description

[byte\[\]](#)

## Methods

### DecodeAscii(byte[])

Decodes the given byte array to ascii null terminated string.

#### Declaration

```
public static string DecodeAscii(byte[] buffer)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">byte[]</a> buffer	The byte array to decode.
-------------------------------	---------------------------

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The given byte array decoded to ascii null terminated string.
------------------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>buffer</code> is set to null.
---------------------------------------	---

#### DecodeAscii(int, int)

Decodes the internal byte array at offset with size to ascii string. String is null terminated.

#### Declaration

```
protected string DecodeAscii(int offset, int size)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">int</a> offset	The offset in the byte array to start.
----------------------------	--

<a href="#">int</a> size	The size of the string.
--------------------------	-------------------------

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The internal byte array at offset with size to ascii string. String is null terminated.
------------------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if offset is smaller 0 or greater the internal array length.
---	---

#### GetByteArrayFromNumber(ushort, bool)

Converts the given value to big endian formatted byte array.

#### Declaration



```
public static byte[] GetByteArrayFromNumber(ushort value, bool isLittleEndian)
```

#### Parameters

Type	Name	Description
<a href="#">ushort</a>	value	The value to convert.
<a href="#">bool</a>	isLittleEndian	True if the exported bytes should be interpreted as little endian (default); otherwise false (big endian).

#### Returns

Type	Description
<a href="#">byte[]</a>	The requested byte array.

#### GetByteArrayFromNumber(uint, bool)

Converts the given value to big endian formatted byte array.

#### Declaration

```
public static byte[] GetByteArrayFromNumber(uint value, bool isLittleEndian)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	value	The value to convert.
<a href="#">bool</a>	isLittleEndian	True if the exported bytes should be interpreted as little endian (default); otherwise false (big endian).

#### Returns

Type	Description
<a href="#">byte[]</a>	The requested byte array.

#### GetByteArrayFromNumber(ulong, bool)

Converts the given value to formatted byte array.

#### Declaration

```
public static byte[] GetByteArrayFromNumber(ulong value, bool isLittleEndian = true)
```

#### Parameters

Type	Name	Description
<a href="#">ulong</a>	value	The value to convert.
<a href="#">bool</a>	isLittleEndian	True if the exported bytes should be interpreted as little endian (default); otherwise false (big endian).

#### Returns

Type	Description
------	-------------

**Type**      **Description**  
[byte\[\]](#) The requested byte array.

### GetBytesUntilZero(byte[])

Returns the bytes in the given array until 0 value is found. If no 0 value is found, whole array is returned.

#### Declaration

```
protected byte[] GetBytesUntilZero(byte[] byteArray)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	byteArray	The byte array to shorten up if 0 values are included.
------------------------	-----------	--

#### Returns

Type	Description
------	-------------

<a href="#">byte[]</a>	The bytes in the given array until 0 value is found. If no 0 value is found, whole array is returned.
------------------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>byteArray</code> is set to null.
---------------------------------------	--

### GetIntFromArray(int, bool)

Returns the uint interpretation in little endian (or big endian) of the given byte array with offset and size.

#### Declaration

```
protected uint GetIntFromArray(int offset, bool isLittleEndian = true)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	offset	The offset in the internal <a href="#">ByteArray</a> .
---------------------	--------	--

<a href="#">bool</a>	isLittleEndian	True if the bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	---

#### Returns

Type	Description
------	-------------

<a href="#">uint</a>	The uint interpretation in little endian of the given byte array with offset and size.
----------------------	--

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if the internal byte array would be exceeded by the access (byte array is 512 bytes big).
---	--

## GetLongFromByteArray(int, bool)

Returns the ulong interpretation in little endian (or big endian) of the given byte array with offset and size.

### Declaration

```
protected ulong GetLongFromByteArray(int offset, bool isLittleEndian = true)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	offset	The offset in the internal <a href="#">ByteArray</a> .
---------------------	--------	--

<a href="#">bool</a>	isLittleEndian	True if the bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	---

### Returns

Type	Description
------	-------------

<a href="#">ulong</a>	The ulong interpretation in little endian of the given byte array with offset and size.
-----------------------	---

### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if the internal byte array would be exceeded by the access (byte array is 512 bytes big).
---	--

## GetShortFromByteArray(int, bool)

Returns the ushort interpretation in little endian (or big endian) of the given byte array with offset and size.

### Declaration

```
protected ushort GetShortFromByteArray(int offset, bool isLittleEndian = true)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	offset	The offset in the internal <a href="#">ByteArray</a> .
---------------------	--------	--

<a href="#">bool</a>	isLittleEndian	True if the bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	---

### Returns

Type	Description
------	-------------

<a href="#">ushort</a>	The ushort interpretation in little endian of the given byte array with offset and size.
------------------------	--

### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if the internal byte array would be exceeded by the access (byte array is 512 bytes big).
---	--

# Interface ISwissbitCommunication

Interface for native tse communication.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISwissbitCommunication
```

## Remarks

At the moment there are two implementations: [SwissbitFileCommunication](#) and android implementation.

## Properties

### IsInitialized

#### Declaration

```
bool IsInitialized { get; }
```

#### Property Value

#### Type Description

[bool](#)

### Lockobject

#### Declaration

```
object Lockobject { get; }
```

#### Property Value

#### Type Description

[object](#)

### TseSerial

#### Declaration

```
string TseSerial { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### CancelTransaction(string, int, int, string)

Cancels a transaction on the technical security system (tse).

#### Declaration

```
TseResponse CancelTransaction(string clientId, int transactionNumber, int lastRevision, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

### CommandAcknowledgeExport(ulong)

Acknowledge of the data export to delete the data on the tse.

#### Declaration

```
TseCommandStatusResponse CommandAcknowledgeExport(ulong exportSize)
```

#### Parameters

Type	Name	Description
<a href="#">ulong</a>	exportSize	Size of successfully received export data in bytes. Big Endian.

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

### CommandChangePin(int, string, string)

Changes the PIN of the given user.

#### Declaration

```
TseCommandStatusResponse CommandChangePin(int userId, string currentPin, string newPin)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	userId	The userid of the user to change the pin. 0 = unidentified user, 1 = admin, 2 = timeAdmin
<a href="#">string</a>	currentPin	The current pin.
<a href="#">string</a>	newPin	The new pin.

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
<a href="#">ArgumentException</a>	Thrown if parameter <code>currentPin</code> or parameter <code>newPin</code> are not 5 characters long.
<a href="#">ArgumentNullException</a>	Thrown if <code>currentPin</code> or parameter <code>newPin</code> are set to null or empty string.

### CommandChangePuk(string, string)

This command can be used to change the Admin PUK.

#### Declaration

```
TseCommandStatusResponse CommandChangePuk(string currentPuk, string newPuk)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	currentPuk	The current puk.
<a href="#">string</a>	newPuk	The new puk.

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `currentPuk` or parameter `newPuk` are set to null or empty string.

[ArgumentException](#) Thrown if parameter `currentPuk` or parameter `newPuk` having a length of less or more than 6 characters.

#### CommandDeleteExportedData()

Deletes all data that has been successfully exported before.

#### Declaration

```
TseCommandStatusResponse CommandDeleteExportedData ()
```

#### Returns

Type	Description
------	-------------

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

#### CommandEnableCtssInterface()

This command can be used to enable the CTSS Interface.

#### Declaration

```
TseCommandStatusResponse CommandEnableCtssInterface ()
```

#### Returns

Type	Description
------	-------------

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

#### CommandGetLogMessageCertificate(uint)

Returns the certificate that is associated with the signatures created by the TOE.

#### Declaration

```
TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse CommandGetLogMessageCertificate(uint dataOffset)
```

#### Parameters

Type	Name	Description
------	------	-------------

[uint](#) `dataOffset` Selects from which offset the certificate data should be returned.

#### Returns

Type	Description
------	-------------

[TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse](#) The command response ([TseCmdGetLogMessageCertificate.Response](#)).

#### CommandInitializeTse()

Command to initialize the tse.

#### Declaration

```
TseCommandStatusResponse CommandInitializeTse ()
```

#### Returns

Type	Description
------	-------------

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

#### CommandListRegisteredClients(int)

Lists all registered clients in chunks of 16 clients.

#### Declaration

```
TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse CommandListRegisteredClients(int clientOffset)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	clientOffset	The offset from where the clients should be read.

#### Returns

Type	Description
<a href="#">TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse</a>	The command response ( <a href="#">TseCmdListRegisteredClients.Response</a> ).

#### CommandListStartedTransactions(uint, string)

Lists all started transaction numbers in chunks of 62 transactions.

#### Declaration

```
TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse CommandListStartedTransactions(uint skipTransactionOffset, string clientId)
```

#### Parameters

Type	Name	Description
<a href="#">uint</a>	skipTransactionOffset	
<a href="#">string</a>	clientId	ASCII string representing the unique serial number of the client to register.

#### Returns

Type	Description
<a href="#">TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse</a>	A <a href="#">TseCmdListStartedTransactions.Response</a> object representing the response of the tse.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
<a href="#">ArgumentException</a>	Thrown if parameter <code>clientId</code> is longer than 30 characters.

#### CommandLogin(int, string, bool)

Authenticates users of the TOE based on their PIN.

#### Declaration

```
ITseCommandResponse CommandLogin(int userId, string pin, bool raiseException = false)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	userId	The userid of the user to login. Must be one of this values: 0, 1, 2. (0 = normal, 1 = admin, 2 = time admin).
<a href="#">string</a>	pin	The pin of the user for logon.
<a href="#">bool</a>	raiseException	Optional. True if the function should raise an exception when CommandResponse is not <a href="#">ExecutionSuccessful</a> ; otherwise false. Default = false.

#### Returns

Type	Description
<a href="#">ITseCommandResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

**Type****Condition**

[ArgumentOutOfRangeException](#) Thrown if parameter `userId` is not one of this values: 0, 1, 2.

[ArgumentException](#) Thrown if parameter `pin` is not 5 characters long.

**CommandLogout(int)**

Logs out the given user. The user must be logged in, otherwise the command will fail with [0x1202: Given user is not authenticated].

**Declaration**

```
TseCommandStatusResponse CommandLogout(int userId)
```

**Parameters****Type Name Description**

[int](#) `userId` The userid for logout.

**Returns****Type****Description**

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

**Exceptions****Type****Condition**

[ArgumentOutOfRangeException](#) Thrown if parameter `userId` is not one of this values: 0, 1, 2.

**CommandRegisterClient(string)**

Registers a client (i.e. an ERS) as a valid system for self tests and transactions.

**Declaration**

```
TseCommandStatusResponse CommandRegisterClient(string clientId)
```

**Parameters****Type Name Description**

[string](#) `clientId` ASCII string representing the unique serial number of the client to register.

**Returns****Type****Description**

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `clientId` is set to null or empty string.

[ArgumentException](#) Thrown if parameter `clientId` is longer than 30 characters.

**CommandSelfTestRun(string)**

Runs a self test for the tse.

**Declaration**

```
TseCommandStatusResponse CommandSelfTestRun(string clientId)
```

**Parameters****Type Name Description**

[string](#) `clientId` ASCII string representing the unique serial number of the client. Maximum of 30 characters.



## Returns

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).
--	--

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
---------------------------------------	---

<a href="#">ArgumentException</a>	Thrown if parameter <code>clientId</code> is longer than 30 characters.
-----------------------------------	---

## CommandUpdateTime(DateTimeOffset, bool)

Updates the time on the tse.

### Declaration

```
TseCommandStatusResponse CommandUpdateTime(DateTimeOffset timeStamp, bool raiseException = false)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">DateTimeOffset</a>	<code>timeStamp</code>	Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported.
--------------------------------	------------------------	--

<a href="#">bool</a>	<code>raiseException</code>	Optional. True if the function should raise an exception when <code>CommandResponse</code> is not <a href="#">ExecutionSuccessful</a> ; otherwise false. Default = false.
----------------------	-----------------------------	---

## Returns

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).
--	--

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if timestamp represents a year before 1970.
---	--

## ExportFullTar(Stream)

### Declaration

```
ulong ExportFullTar(Stream exportStream)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Stream</a>	<code>exportStream</code>	
------------------------	---------------------------	--

## Returns

Type	Description
------	-------------

<a href="#">ulong</a>	
-----------------------	--

## FactoryReset()

Does a factory reset on the tse.

### Declaration

```
void FactoryReset()
```

### Remarks

Only works on dev tse's and only supported on android systems.

## FinishTransaction(string, TseRequest)

Finish a transaction on the technical security system (tse).

### Declaration

TseResponse FinishTransaction(string clientId, TseRequest request)

#### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The client where the transaction should occur.
<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

#### FirmwareUpdate(string, string, Version)

Does a firmware update on the swissbit tse.

#### Declaration

```
bool FirmwareUpdate(string clientId, string updateFile, Version newVersion)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The clientid of the registered client on the tse.
<a href="#">string</a>	updateFile	The firmware update file.
<a href="#">Version</a>	newVersion	The new firmware version.

#### Returns

Type	Description
<a href="#">bool</a>	True if version update was done; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>updateFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">FileNotFoundException</a>	Thrown if <code>updateFile</code> is not found.
<a href="#">InvalidDataException</a>	Thrown if transfer of firmware fails.
<a href="#">InvalidOperationException</a>	Thrown if admin login is not possible.
<a href="#">ApplicationException</a>	Thrown if firmware update cannot be applied.

#### GetSwissbitStatus()

#### Declaration

```
ISwissbitStatus GetSwissbitStatus()
```

#### Returns

Type	Description
<a href="#">ISwissbitStatus</a>	

#### GetTseCertificate()

#### Declaration

```
byte[] GetTseCertificate()
```

#### Returns

## Type Description

[byte](#)[]

## GetTseStatus(Action, TseStatus)

### Declaration

```
TseStatus GetTseStatus(Action setStatusConnected, TseStatus tseStatus)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Action</a>	setStatusConnected	
------------------------	--------------------	--

<a href="#">TseStatus</a>	tseStatus	
---------------------------	-----------	--

### Returns

Type	Description
------	-------------

<a href="#">TseStatus</a>	
---------------------------	--

## StartTransaction(string, string)

Starts a transaction on the tse.

### Declaration

```
TseResponse StartTransaction(string clientId, string processType)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	clientId	The clientId of the registered client on the tse.
------------------------	----------	---

<a href="#">string</a>	processType	The processType. Has to be empty string.
------------------------	-------------	--

### Returns

Type	Description
------	-------------

<a href="#">TseResponse</a>	A TseResponse containing the tse information.
-----------------------------	---

# Interface ISwissbitCreator

Creates

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface ISwissbitCreator
```

## Methods

### GetSwissbitCommunication(string)

Declaration

```
ISwissbitCommunication GetSwissbitCommunication(string tseId)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	tseId	
------------------------	-------	--

Returns

Type	Description
<a href="#">ISwissbitCommunication</a>	

# Class SwissbitCommandException

Represents a swissbit command exception (Raised if command fails).

## Inheritance

[object](#)  
[Exception](#)  
SwissbitCommandException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Message](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SwissbitCommandException : Exception, ISerializable
```

## Constructors

**SwissbitCommandException(TseCommandStatusResponse)**

### Declaration

```
public SwissbitCommandException(TseCommandStatusResponse statusResponse)
```

### Parameters

Type	Name	Description
<a href="#">TseCommandStatusResponse</a>	statusResponse	

## Implements

[ISerializable](#)

# Class SwissbitFileCommunication

## Inheritance

[object](#)  
SwissbitFileCommunication

## Implements

[ISwissbitCommunication](#)

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SwissbitFileCommunication : ISwissbitCommunication
```

## Constructors

### SwissbitFileCommunication(string, string, ILogger)

Swissbit file communication class for windows.

## Declaration

```
public SwissbitFileCommunication(string statusFile, string communicationFile, ILogger logger)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	statusFile	The status file for the tse.
<a href="#">string</a>	communicationFile	The communication file for the tse.
<a href="#">ILogger</a>	logger	The logger for logging purposes.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>statusFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>communicationFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>logger</code> is set to null.

## Fields

### FileFlagNoBuffering

## Declaration

```
public const FileOptions FileFlagNoBuffering = (FileOptions)536870912
```

## Field Value

Type	Description
<a href="#">FileOptions</a>	

## Properties

### CommandLogFile

## Declaration

```
public string CommandLogFile { get; set; }
```

## Property Value

## Type Description

[string](#)

## CommandTimeout

Gets or sets the command timeout for tse commands in seconds.

### Declaration

```
public uint CommandTimeout { get; set; }
```

### Property Value

## Type Description

[uint](#)

### Remarks

Default is 240 seconds.

## IsInitialized

### Declaration

```
public bool IsInitialized { get; }
```

### Property Value

## Type Description

[bool](#)

## Lockobject

### Declaration

```
public object Lockobject { get; }
```

### Property Value

## Type Description

[object](#)

## TseSerial

### Declaration

```
public string TseSerial { get; set; }
```

### Property Value

## Type Description

[string](#)

## Methods

### CancelTransaction(string, int, int, string)

Cancels a transaction on the technical security system (tse).

### Declaration

```
public TseResponse CancelTransaction(string clientId, int transactionNumber, int lastRevision, string processType)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The client where the transaction should occur.
<a href="#">int</a>	transactionNumber	The number of the transaction to be canceled.
<a href="#">int</a>	lastRevision	The actual revision of the transaction to be canceled.
<a href="#">string</a>	processType	The type of the canceled transaction.

### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

### CommandAcknowledgeExport(ulong)

Acknowledge of the data export to delete the data on the tse.

#### Declaration

```
public TseCommandStatusResponse CommandAcknowledgeExport(ulong exportSize)
```

#### Parameters

Type	Name	Description
<a href="#">ulong</a>	exportSize	Size of successfully received export data in bytes. Big Endian.

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

### CommandChangePin(int, string, string)

Changes the PIN of the given user.

#### Declaration

```
public TseCommandStatusResponse CommandChangePin(int userId, string currentPin, string newPin)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	userId	The userid of the user to change the pin. 0 = unidentified user, 1 = admin, 2 = timeAdmin
<a href="#">string</a>	currentPin	The current pin.
<a href="#">string</a>	newPin	The new pin.

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
<a href="#">ArgumentException</a>	Thrown if parameter <code>currentPin</code> or parameter <code>newPin</code> are not 5 characters long.
<a href="#">ArgumentNullException</a>	Thrown if <code>currentPin</code> or parameter <code>newPin</code> are set to null or empty string.

### CommandChangePuk(string, string)

This command can be used to change the Admin PUK.

#### Declaration

```
public TseCommandStatusResponse CommandChangePuk(string currentPuk, string newPuk)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	currentPuk	The current puk.
<a href="#">string</a>	newPuk	The new puk.

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).



## Exceptions

### Type

### Condition

[ArgumentNullException](#) Thrown if parameter `currentPuk` or parameter `newPuk` are set to null or empty string.

[ArgumentException](#) Thrown if parameter `currentPuk` or parameter `newPuk` having a length of less or more than 6 characters.

## CommandDeleteExportedData()

Deletes all data that has been successfully exported before.

### Declaration

```
public TseCommandStatusResponse CommandDeleteExportedData()
```

### Returns

#### Type

#### Description

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

## CommandEnableCtssInterface()

This command can be used to enable the CTSS Interface.

### Declaration

```
public TseCommandStatusResponse CommandEnableCtssInterface()
```

### Returns

#### Type

#### Description

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

## CommandGetLogMessageCertificate(uint)

Returns the certificate that is associated with the signatures created by the TOE.

### Declaration

```
public TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse CommandGetLogMessageCertificate(uint dataOffset)
```

### Parameters

#### Type

#### Name

#### Description

[uint](#) `dataOffset` Selects from which offset the certificate data should be returned.

### Returns

#### Type

#### Description

[TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse](#) The command response ([TseCmdGetLogMessageCertificate.Response](#)).

## CommandInitializeTse()

Command to initialize the tse.

### Declaration

```
public TseCommandStatusResponse CommandInitializeTse()
```

### Returns

#### Type

#### Description

[TseCommandStatusResponse](#) The command response ([TseCommandResponse](#)).

## CommandListRegisteredClients(int)

Lists all registered clients in chunks of 16 clients.

### Declaration

```
public TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse CommandListRegisteredClients(int clientOffset)
```

### Parameters

#### Type

#### Name

#### Description

Type	Name	Description
<a href="#">int</a>	clientOffset	The offset from where the clients should be read.

Returns

Type	Description
<a href="#">TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse</a>	The command response ( <a href="#">TseCmdListRegisteredClients.Response</a> ).

### CommandListStartedTransactions(uint, string)

Lists all started transaction numbers in chunks of 62 transactions.

Declaration

```
public TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse CommandListStartedTransactions(uint skipTransactionOffset, string clientId)
```

Parameters

Type	Name	Description
<a href="#">uint</a>	skipTransactionOffset	
<a href="#">string</a>	clientId	ASCII string representing the unique serial number of the client to register.

Returns

Type	Description
<a href="#">TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse</a>	A <a href="#">TseCmdListStartedTransactions.Response</a> object representing the response of the tse.

Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
<a href="#">ArgumentException</a>	Thrown if parameter <code>clientId</code> is longer than 30 characters.

### CommandLogin(int, string, bool)

Authenticates users of the TOE based on their PIN.

Declaration

```
public ITseCommandResponse CommandLogin(int userId, string pin, bool raiseException = false)
```

Parameters

Type	Name	Description
<a href="#">int</a>	userId	The userid of the user to login. Must be one of this values: 0, 1, 2. (0 = normal, 1 = admin, 2 = time admin).
<a href="#">string</a>	pin	The pin of the user for logon.
<a href="#">bool</a>	raiseException	Optional. True if the function should raise an exception when <a href="#">CommandResponse</a> is not <a href="#">ExecutionSuccessful</a> ; otherwise false. Default = false.

Returns

Type	Description
<a href="#">ITseCommandResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
<a href="#">ArgumentException</a>	Thrown if parameter <code>pin</code> is not 5 characters long.

### CommandLogout(int)

Logs out the given user. The user must be logged in, otherwise the command will fail with [0x1202: Given user is not authenticated].

Declaration

```
public TseCommandStatusResponse CommandLogout(int userId)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">int</a>	userId The userid for logout.
---------------------	-------------------------------

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.

#### CommandRegisterClient(string)

Registers a client (i.e. an ERS) as a valid system for self tests and transactions.

#### Declaration

```
public TseCommandStatusResponse CommandRegisterClient(string clientId)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a>	clientId ASCII string representing the unique serial number of the client to register.
------------------------	--

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
<a href="#">ArgumentException</a>	Thrown if parameter <code>clientId</code> is longer than 30 characters.

#### CommandSelfTestRun(string)

Runs a self test for the tse.

#### Declaration

```
public TseCommandStatusResponse CommandSelfTestRun(string clientId)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a>	clientId ASCII string representing the unique serial number of the client. Maximum of 30 characters.
------------------------	--

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
<a href="#">ArgumentException</a>	Thrown if parameter <code>clientId</code> is longer than 30 characters.

### CommandUpdateTime(DateTimeOffset, bool)

Updates the time on the tse.

#### Declaration

```
public TseCommandStatusResponse CommandUpdateTime(DateTimeOffset timeStamp, bool raiseException = false)
```

#### Parameters

Type	Name	Description
<a href="#">DateTimeOffset</a>	timeStamp	Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported.
<a href="#">bool</a>	raiseException	Optional. True if the function should raise an exception when CommandResponse is not <a href="#">ExecutionSuccessful</a> ; otherwise false. Default = false.

#### Returns

Type	Description
<a href="#">TseCommandStatusResponse</a>	The command response ( <a href="#">TseCommandResponse</a> ).

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if timestamp represents a year before 1970.

### ExportFullTar(Stream)

#### Declaration

```
public ulong ExportFullTar(Stream exportStream)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	exportStream	

#### Returns

Type	Description
<a href="#">ulong</a>	

### FactoryReset()

Does a factory reset on the tse.

#### Declaration

```
public void FactoryReset()
```

#### Remarks

Only works on dev tse's and only supported on android systems.

### FinishTransaction(string, TseRequest)

Finish a transaction on the technical security system (tse).

#### Declaration

```
public TseResponse FinishTransaction(string clientId, TseRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The client where the transaction should occur.
<a href="#">TseRequest</a>	request	The appropriate request of the transaction. Possible requests are <a href="#">TseReceipt</a> , <a href="#">TseOrder</a> or <a href="#">TseOtherTransaction</a> .

#### Returns

Type	Description
<a href="#">TseResponse</a>	A <a href="#">TseResponse</a> object representing the response of the tse.

### FirmwareUpdate(string, string, Version)

Does a firmware update on the swissbit tse.

#### Declaration

```
public bool FirmwareUpdate(string clientId, string updateFile, Version newVersion)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The clientid of the registered client on the tse.
<a href="#">string</a>	updateFile	The firmware update file.
<a href="#">Version</a>	newVersion	The new firmware version.

#### Returns

Type	Description
<a href="#">bool</a>	True if version update was done; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>updateFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">FileNotFoundException</a>	Thrown if <code>updateFile</code> is not found.
<a href="#">InvalidDataException</a>	Thrown if transfer of firmware fails.
<a href="#">InvalidOperationException</a>	Thrown if admin login is not possible.
<a href="#">ApplicationException</a>	Thrown if firmware update cannot be applied.

#### GetSwissbitStatus()

##### Declaration

```
public ISwissbitStatus GetSwissbitStatus()
```

##### Returns

Type	Description
<a href="#">ISwissbitStatus</a>	

#### GetTseCertificate()

##### Declaration

```
public byte[] GetTseCertificate()
```

##### Returns

Type	Description
<a href="#">byte[]</a>	

#### GetTseStatus(Action, TseStatus)

##### Declaration

```
public TseStatus GetTseStatus(Action setStatusConnected, TseStatus tseStatus)
```

##### Parameters

Type	Name	Description
<a href="#">Action</a>	setStatusConnected	
<a href="#">TseStatus</a>	tseStatus	

##### Returns

Type	Description
<a href="#">TseStatus</a>	

#### StartTransaction(string, string)

Starts a transaction on the tse.

#### Declaration

```
public TseResponse StartTransaction(string clientId, string processType)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	clientId	The clientid of the registered client on the tse.
<a href="#">string</a>	processType	The processType. Has to be empty string.

#### Returns

Type	Description
<a href="#">TseResponse</a>	A TseResponse containing the tse information.

#### Implements

[ISwissbitCommunication](#)

# Class `SwissbitHardwareDevice`

Represents a local swissbit information class.

## Inheritance

[object](#)

[ByteArrayConverterBase](#)

[SwissbitStatus](#)

`SwissbitHardwareDevice`

## Implements

[ISwissbitStatus](#)

## Inherited Members

[SwissbitStatus.FirmwareType](#)

[SwissbitStatus.FirmwareId](#)

[SwissbitStatus.TseCapacity](#)

[SwissbitStatus.TseCurrentSize](#)

[SwissbitStatus.TseSecurity](#)

[SwissbitStatus.TseSecurityValidTimeSet](#)

[SwissbitStatus.TseSecuritySelfTestPassed](#)

[SwissbitStatus.TseSecurityCtssInterfaceActive](#)

[SwissbitStatus.TseTsecurityExportAllowedIfCspTestFails](#)

[SwissbitStatus.TseInitializationState](#)

[SwissbitStatus.DataImportInitialized](#)

[SwissbitStatus.InitialPukChanged](#)

[SwissbitStatus.InitialAdminPinChanged](#)

[SwissbitStatus.InitialTimeAdminPinChanged](#)

[SwissbitStatus.TimeUntilNextSelftest](#)

[SwissbitStatus.StartedTransactions](#)

[SwissbitStatus.MaxStartedTransactions](#)

[SwissbitStatus.CreatedSignatures](#)

[SwissbitStatus.MaxSignatures](#)

[SwissbitStatus.RegisteredClients](#)

[SwissbitStatus.MaxRegisteredClients](#)

[SwissbitStatus.CertificateExpirationDate](#)

[SwissbitStatus.CertificateExpirationDateTimeOffset](#)

[SwissbitStatus.TseExportSize](#)

[SwissbitStatus.TseHardwareVersion](#)

[SwissbitStatus.TseSoftwareVersion](#)

[SwissbitStatus.TseFormFactor](#)

[SwissbitStatus.MaxTimeSynchronizationDelay](#)

[SwissbitStatus.MaxUpdateDelay](#)

[SwissbitStatus.LastHeaderBlockIndex](#)

[SwissbitStatus.TsePublicKeyLength](#)

[SwissbitStatus.TsePublicKey](#)

[SwissbitStatus.TsePublicKeyString](#)

[SwissbitStatus.TseSerial](#)

[SwissbitStatus.TseDescription](#)

[SwissbitStatus.CspKeyReference](#)

[ByteArrayConverterBase.ByteArray](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)

[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)

[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)

[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: `RetailForce.Fiscalisation.dll`

Syntax

```
public class SwissbitHardwareDevice : SwissbitStatus, ISwissbitStatus
```

## Constructors

### SwissbitHardwareDevice(string, string, byte[])

Constructor.

#### Declaration

```
public SwissbitHardwareDevice(string statusFilePath, string communicationFilePath, byte[] statusBytes)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	statusFilePath	The path to the status file (include path and filename).
<a href="#">string</a>	communicationFilePath	
<a href="#">byte[]</a>	statusBytes	

## Properties

### CommunicationFilePath

The path to the swissbit communication file (include path and filename).

#### Declaration

```
public string CommunicationFilePath { get; }
```

#### Property Value

#### Type Description

[string](#)

### StatusFilePath

The path to the status file (include path and filename).

#### Declaration

```
public string StatusFilePath { get; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### CreateInterface(ILogger)

Creates a new swiss bit device interface using the given paths.

#### Declaration

```
public SwissbitHardware CreateInterface(ILogger logger)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger to log

#### Returns

Type	Description
<a href="#">SwissbitHardware</a>	

### GetLocalSecuritySystems()



Returns all attached swissbit tse's.

#### Declaration

```
public static IEnumerable<SwissbitHardwareDevice> GetLocalSecuritySystems()
```

#### Returns

Type	Description
------	-------------

<a href="#">IEnumerable&lt;SwissbitHardwareDevice&gt;</a>	A list of swissbit hardware devices.
---	--------------------------------------

#### GetNewLocalSecuritySystems(bool, params string[])

Returns attached swissbit tse's with state Uninitialized or state Initialized (reUse=true).

#### Declaration

```
public static IEnumerable<SwissbitHardwareDevice> GetNewLocalSecuritySystems(bool reUse, params string[] tseSerialExceptionList)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	reUse	True if also tse's with state Initialized should be returned.

[string\[\]](#) tseSerialExceptionList Exception list for tse's when reUse is true.

#### Returns

Type	Description
------	-------------

<a href="#">IEnumerable&lt;SwissbitHardwareDevice&gt;</a>	A list of swissbit hardware devices.
---	--------------------------------------

#### ReadStatusFile(string)

Reads the status file from tse using the file and depending on linux or windows os.

#### Declaration

```
public static byte[] ReadStatusFile(string statusFile)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	statusFile	The status file to read.

#### Returns

Type	Description
<a href="#">byte[]</a>	A byte array representing the status file bytes.

#### ToString()

#### Declaration

```
public override string ToString()
```

#### Returns

#### Type Description

[string](#)

#### Overrides

[SwissbitStatus.ToString\(\)](#)

## Implements

[ISwissbitStatus](#)

# Enum TransactionType

The transaction type for sending transactions to the tse (Start, Update, Finish).

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TransactionType : byte
```

## Fields

Name	Description
TransactionFinish	Finishes a transaction on the tse.
TransactionStart	Starts a transaction on the tse.
TransactionUpdate	Updates a transaction on the tse.

# Class TseFileAccess

## Inheritance

[object](#)

TseFileAccess

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class TseFileAccess
```

## Methods

### ReadBytesFromFile(string)

Read bytes from file

#### Declaration

```
public static byte[] ReadBytesFromFile(string tseFile)
```

#### Parameters

#### Type Name Description

[string](#) tseFile

#### Returns

#### Type Description

[byte](#)[]

### WriteAllBytes(string, byte[])

Write all bytes

#### Declaration

```
public static void WriteAllBytes(string tseFile, byte[] bytesToWrite)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	tseFile	
------------------------	---------	--

<a href="#">byte</a> []	bytesToWrite	in tse case need to be 512 bytes
-------------------------	--------------	----------------------------------

# Class TseTarDataHead

Represents the tar data head when exporting tar data.

## Inheritance

[object](#)

[ByteArrayConverterBase](#)

TseTarDataHead

## Inherited Members

[ByteArrayConverterBase.ByteArray](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)

[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)

[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)

[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseTarDataHead : ByteArrayConverterBase
```

## Constructors

### TseTarDataHead(byte[])

Constructor.

### Declaration

```
public TseTarDataHead(byte[] headData)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	headData	the bytes representing the head data for the next file chunk.
------------------------	----------	---

## Properties

### FileTime

### Declaration

```
public string FileTime { get; }
```

### Property Value

## Type Description

[string](#)

## Filename

### Declaration

```
public string Filename { get; }
```

### Property Value

## Type Description

[string](#)

## Filesize

### Declaration

```
public string Filesize { get; }
```

### Property Value

## Type Description

[string](#)

## Namespace

# RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands

## Classes

### [TseCmdAbortFilteredExport](#)

Aborts a currently running filtered export.

### [TseCmdAcknowledgeExport](#)

Acknowledge of the data export to delete the data on the tse.

### [TseCmdApu](#)

Command for cloud apdu commands to tse.

### [TseCmdBase](#)

Base class for all tse commands

### [TseCmdChangePin](#)

Changes the PIN of the given user.

### [TseCmdChangePuk](#)

This command can be used to change the Admin PUK.

### [TseCmdDataImportFinalize](#)

Command to finish up transfer data to the tse.

### [TseCmdDataImportFinalize.Response](#)

Response class for command [TseCmdDataImportFinalize](#).

### [TseCmdDataImportInitialize](#)

Initializes a Data Import.

### [TseCmdDataImportInitialize.Response](#)

Response class for the command [TseCmdDataImportInitialize](#).

### [TseCmdDataImportRollback](#)

Performs a rollback of the actual data import.

### [TseCmdDecommissionTse](#)

When the TOE should not be used anymore, it must be decommissioned with this command.

### [TseCmdDeleteExportedData](#)

Deletes all data that has been successfully exported before.

### [TseCmdDeregisterClient](#)

Removes a client from the list of authorized clients.

### [TseCmdDisableCtssInterface](#)

This command can be used to disable the CTSS Interface.

#### [TseCmdDisableExportIfCspTestFails](#)

Disables export if csp test fails.

#### [TseCmdEnableCtssInterface](#)

This command can be used to enable the CTSS Interface.

#### [TseCmdEnableExportIfCspTestFails](#)

The TOE allows to determine the behavior of the TOE with respect to the export of data if the CSP test fails during the self test.

#### [TseCmdFactoryReset](#)

Command for factory reset of tse.

#### [TseCmdFetchCommandResponse](#)

This command must be used if and only if the Result Code of a previously executed command is 0xFD. It will then deliver the response of the previously issued command.

#### [TseCmdFirmwareUpdateApply](#)

Applies a firmware update that was previously transferred to the TOE with command TSE Firmware Update Transfer.

#### [TseCmdFirmwareUpdateTransfer](#)

Transfers a firmware update package to the TOE.

#### [TseCmdGetLastTransactionResponse](#)

This command can be used to query the last transaction's response.

#### [TseCmdGetLogMessageCertificate](#)

Returns the certificate that is associated with the signatures created by the TOE.

#### [TseCmdGetLogMessageCertificate.Response](#)

Response class for command [TseCmdGetLogMessageCertificate](#).

#### [TseCmdInitializeTse](#)

Command to initialize the tse.

#### [TseCmdListRegisteredClients](#)

Lists all registered clients in chunks of 16 clients.

#### [TseCmdListRegisteredClients.Response](#)

Response class for command list registered clients.

#### [TseCmdListStartedTransactions](#)

Lists all started transaction numbers in chunks of 62 transactions.

#### [TseCmdListStartedTransactions.Response](#)

Response class for command [TseCmdListStartedTransactions](#).



### [TseCmdLogin](#)

Authenticates users of the TOE based on their PIN.

### [TseCmdLogout](#)

Logs out the given user. The user must be logged in, otherwise the command will fail with [0x1202: Given user is not authenticated].

### [TseCmdPollFilteredExport](#)

After a filtered export has been initiated with Start Filtered Export, the actual data must be queried in small chunks by repeatedly calling this command.

### [TseCmdPollFilteredExport.Response](#)

The response for the command [TseCmdPollFilteredExport](#).

### [TseCmdRegisterClient](#)

Registers a client (i.e. an ERS) as a valid system for self tests and transactions.

### [TseCmdSelfTestRun](#)

Runs a self test for the tse.

### [TseCmdStartFilteredExport](#)

This command starts a filtered export of stored Log Messages by supplying a filter.

### [TseCmdTseFlashInformation](#)

Provides low level information about the flash storage.

### [TseCmdTseFlashInformation.Response](#)

Response class for the command [TseCmdTseFlashInformation](#).

### [TseCmdUnblockUser](#)

Unblocks a user or change the user pin if forgotten.

### [TseCmdUpdateTime](#)

Updates the time on the tse.

### [TseCommandResponse](#)

Represents a tse command response.

## **Interfaces**

### [ITseCommandResponse](#)

Represents an interface for a tse command response.

### [TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse](#)

Response class interface for command [TseCmdGetLogMessageCertificate](#).

### [TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse](#)

Response class interface for command list registered clients.

## [TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse](#)

Response class interface for command [TseCmdListStartedTransactions](#).

### **Enums**

#### [TseCommandResultCode](#)

#### [TseCommandStatusResponse](#)

# Interface ITseCommandResponse

Represents an interface for a tse command response.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ITseCommandResponse
```

## Properties

### CommandResponse

Returns the command response as [TseCommandStatusResponse](#)

#### Declaration

```
TseCommandStatusResponse CommandResponse { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse</a>	

### ResultCode

Returns the result code of the command. Just for program flow. Please use [CommandResponse](#) for detailed command response information.

#### Declaration

```
TseCommandResultCode ResultCode { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandResultCode</a>	

# Class TseCmdAbortFilteredExport

Aborts a currently running filtered export.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdAbortFilteredExport

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdAbortFilteredExport : TseCmdBase
```

## Remarks

If no filtered export is in progress, the command also succeeds without errors.

## Constructors

### TseCmdAbortFilteredExport()

Constructor.

## Declaration

```
public TseCmdAbortFilteredExport()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

**Type**

**Description**

[TseCommandStatusResponse\[\]](#)

## Overrides

[TseCmdBase.PossibleErrorCodes](#)



# Class TseCmdAcknowledgeExport

Acknowledge of the data export to delete the data on the tse.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdAcknowledgeExport

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdAcknowledgeExport : TseCmdBase
```

## Remarks

After doing an unfiltered export, the host application can notify the TOE that it successfully received the exported data in order to allow execution of the Delete Exported Data command.

## Constructors

### TseCmdAcknowledgeExport(ulong)

Constructor.

## Declaration

```
public TseCmdAcknowledgeExport(ulong exportSize)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">ulong</a>	exportSize	Size of successfully received export data in bytes. Big Endian.
-----------------------	------------	---

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

**Overrides**

[TseCmdBase.PossibleErrorCodes](#)

**Methods**

**FormatCommandBytes()**

**Declaration**

```
protected override void FormatCommandBytes()
```

**Overrides**

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdApdu

Command for cloud apdu commands to tse.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdApdu

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdApdu : TseCmdBase
```

## Constructors

### TseCmdApdu(byte[])

Constructor.

### Declaration

```
public TseCmdApdu(byte[] payload)
```

### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The byte payload for the command.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	



## Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

## Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdBase

Base class for all tse commands

## Inheritance

[object](#)

TseCmdBase

[TseCmdAbortFilteredExport](#)

[TseCmdAcknowledgeExport](#)

[TseCmdApdu](#)

[TseCmdChangePin](#)

[TseCmdChangePuk](#)

[TseCmdDataImportFinalize](#)

[TseCmdDataImportInitialize](#)

[TseCmdDataImportRollback](#)

[TseCmdDecommissionTse](#)

[TseCmdDeleteExportedData](#)

[TseCmdDeregisterClient](#)

[TseCmdDisableCtssInterface](#)

[TseCmdDisableExportIfCspTestFails](#)

[TseCmdEnableCtssInterface](#)

[TseCmdEnableExportIfCspTestFails](#)

[TseCmdFactoryReset](#)

[TseCmdFetchCommandResponse](#)

[TseCmdFirmwareUpdateApply](#)

[TseCmdFirmwareUpdateTransfer](#)

[TseCmdGetLastTransactionResponse](#)

[TseCmdGetLogMessageCertificate](#)

[TseCmdInitializeTse](#)

[TseCmdListRegisteredClients](#)

[TseCmdListStartedTransactions](#)

[TseCmdLogin](#)

[TseCmdLogout](#)

[TseCmdPollFilteredExport](#)

[TseCmdRegisterClient](#)

[TseCmdSelfTestRun](#)

[TseCmdStartFilteredExport](#)

[TseCmdTseFlashInformation](#)

[TseCmdUnblockUser](#)

[TseCmdUpdateTime](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class TseCmdBase
```

## Constructors

**TseCmdBase(int)**

Constructor.

## Declaration

```
public TseCmdBase(int command)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	command	
---------------------	---------	--

## Fields

### ByteStore

#### Declaration

```
protected List<byte> ByteStore
```

#### Field Value

Type	Description
------	-------------

<a href="#">List&lt;byte&gt;</a>	
----------------------------------	--

### Command

#### Declaration

```
protected readonly int Command
```

#### Field Value

#### Type Description

[int](#)

## Properties

### CommandBytes

Returns the command as 512 byte formatted array.

#### Declaration

```
public byte[] CommandBytes { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public abstract TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

## Methods

## FormatCommandBytes()

### Declaration

```
protected virtual void FormatCommandBytes()
```

## GetResponseType(byte[])

Returns the command response for this command (with payload).

### Declaration

```
public virtual TseCommandResponse GetResponseType(byte[] payload)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	payload	The payload for the response.
------------------------	---------	-------------------------------

### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

### Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Class TseCmdChangePin

Changes the PIN of the given user.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdChangePin

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdChangePin : TseCmdBase
```

## Remarks

The user must have been logged in before with command Login User, otherwise the command will fail with [0x1202: Given user is not authenticated]. In order to change the PIN, the current PIN must be provided as well as the new PIN, which must be different from the current PIN (otherwise the command fails with [0x1007: Invalid parameter]).

The PIN has an associated retry counter. In case the provided PIN is wrong, the response SW is [0x11xx: Authentication failed, xx give the number of remaining retries] and the retry counter is decreased. If the retry counter is currently 1 and the wrong PIN is used (thus the retry counter reaches 0), the number of remaining retries will be set to 0 and the SW will be 0x1100. Afterwards, a PIN change with and without a valid PIN will return [0x1201: PIN is blocked].

If users were blocked by this command, they can be unblocked with command Unblock User.

## Constructors

### TseCmdChangePin(int, string, string)

Constructor.

## Declaration

```
public TseCmdChangePin(int userId, string currentPin, string newPin)
```

## Parameters

Type	Name	Description
<a href="#">int</a>	userId	The userid of the user to change the pin. 0 = unidentified user, 1 = admin, 2 = timeAdmin
<a href="#">string</a>	currentPin	The current pin.

Type	Name	Description
------	------	-------------

<a href="#">string</a>	newPin	The new pin.
------------------------	--------	--------------

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
<a href="#">ArgumentException</a>	Thrown if parameter <code>currentPin</code> or parameter <code>newPin</code> are not 5 characters long.
<a href="#">ArgumentNullException</a>	Thrown if <code>currentPin</code> or parameter <code>newPin</code> are set to null or empty string.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdChangePuk

This command can be used to change the Admin PUK.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdChangePuk

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdChangePuk : TseCmdBase
```

## Remarks

The new PUK must be different from the previous PUK, otherwise the command fails with [0x1007: Invalid parameter].

The PUK has an associated retry counter. In case the provided PUK is wrong, the response SW is [0x11xx: Authentication failed, xx give the number of remaining retries] and the retry counter is decreased. If the retry counter is currently 1 and the wrong PUK is used (thus the retry counter reaches 0), the number of remaining retries will be set to 0 and the SW will be 0x1100. Afterwards, both an authentication with and without a valid PUK will return [0x1201: PUK is blocked]. As a blocked PUK can not be recovered from, it is recommended to export all data and decommission the TOE. Afterwards, a new TSE should be used.

## Constructors

### TseCmdChangePuk(string, string)

#### Constructor

#### Declaration

```
public TseCmdChangePuk(string currentPuk, string newPuk)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	currentPuk	The current puk.
------------------------	------------	------------------

<a href="#">string</a>	newPuk	The new puk.
------------------------	--------	--------------

## Exceptions

Type	Condition
------	-----------

## Type

## Condition

[ArgumentNullException](#) Thrown if parameter `currentPuk` or parameter `newPuk` are set to null or empty string.

[ArgumentException](#) Thrown if parameter `currentPuk` or parameter `newPuk` having a length of less or more than 6 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)



# Class TseCmdDataImportFinalize

Command to finish up transfer data to the tse.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdDataImportFinalize

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDataImportFinalize : TseCmdBase
```

## Remarks

After the TSE has received Process Data Length bytes as announced during Data Import Initialize, the transaction can be finalized, which will generate a signed Log Message of the transaction. Please note that after calling this command, the data that has been sent in Section 4.5.2 will not be readable again from the same addresses, because it will be copied into a Log Message.

## Constructors

### TseCmdDataImportFinalize()

Constructor.

### Declaration

```
public TseCmdDataImportFinalize()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### Property Value

**Type**

**Description**

[TseCommandStatusResponse\[\]](#)

## Overrides

## Methods

### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload for the response.

#### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

#### Overrides

[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)

#### Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Class TseCmdDataImportFinalize.Response

Response class for command [TseCmdDataImportFinalize](#).

## Inheritance

[object](#)  
[ByteArrayConverterBase](#)  
[TseCommandResponse](#)  
TseCmdDataImportFinalize.Response

## Implements

[ITseCommandResponse](#)

## Inherited Members

[TseCommandResponse.ResultCode](#)  
[TseCommandResponse.CommandLength](#)  
[TseCommandResponse.CommandResponse](#)  
[TseCommandResponse.Payload](#)  
[TseCommandResponse.ResponseBytes](#)  
[TseCommandResponse.ToString\(\)](#)  
[ByteArrayConverterBase.ByteArray](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)  
[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)  
[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)  
[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDataImportFinalize.Response : TseCommandResponse, ITseCommandResponse
```

## Constructors

### Response(byte[])

Constructor.

## Declaration

```
public Response(byte[] payload)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	payload	The payload of the response in bytes.
------------------------	---------	---------------------------------------

## Properties

### LogTime

Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. Big Endian.

#### Declaration

```
public ulong LogTime { get; }
```

#### Property Value

#### Type Description

[ulong](#)

### LogTimeDateTimeOffset

Timestamp for signature creation as [DateTimeOffset](#).

#### Declaration

```
public DateTimeOffset LogTimeDateTimeOffset { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTimeOffset</a>	
--------------------------------	--

### SerialNumber

Serial Number of the recording device. This is a hash over the public key / certificate of the Smart Card.

#### Declaration

```
public byte[] SerialNumber { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### Signature

The signature for the import.

#### Declaration

```
public byte[] Signature { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### SignatureCounter

The signature counter for this signature.

#### Declaration

```
public ulong SignatureCounter { get; }
```

**Property Value**

**Type Description**

[ulong](#)

**SignatureLength**

The length of the signature.

**Declaration**

```
public ulong SignatureLength { get; }
```

**Property Value**

**Type Description**

[ulong](#)

**SignatureString**

The signature as ascii string.

**Declaration**

```
public string SignatureString { get; }
```

**Property Value**

**Type Description**

[string](#)

**TransactionNumber**

For Transaction Start: the newly assigned transaction number. For other types: the same transaction number that was used in the Initialize step.

**Declaration**

```
public ulong TransactionNumber { get; }
```

**Property Value**

**Type Description**

[ulong](#)

**Implements**

[ITseCommandResponse](#)

## Class TseCmdDataImportInitialize

Initializes a Data Import.

### Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdDataImportInitialize

### Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany\\_The\\_Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class TseCmdDataImportInitialize : TseCmdBase
```

### Remarks

By using command 90 00, the Data Import will be performed in High-Speed mode (preferred), with command 91 00 Simple Mode will be used. The parameter Transaction Type selects whether this Data Import shall start, update, or finish a transaction. For updating or finishing a transaction, the Transaction Number of a started transaction must be provided, otherwise this value must be set to 0. If the provided Transaction Number is not in the started state, the command will fail with [0x1008: Given transaction is not started]. The provided Client ID must have been previously registered (see Section 4.2.2), otherwise the operation will be rejected. All registered clients can update or finish transactions, even transactions that have been started by another client. In case a transaction gets updated by another client as the last update (or the start of the transaction if the transaction has never been updated before), ownership of the transaction gets transferred to the new client. The actual Process Data is omitted from the command and will be supplied afterwards (see Section 4.5.2). However, its length must be provided as Process Data Length. The allowed values for Process Type will be defined by Kassensicherungsverordnung. They are not evaluated by the TOE and will be transparently copied into the generated Log Message. The response field Transaction Payload Offset gives the sector offset in the TSE Store where the Process Data must be written during phase Data Import Transfer afterwards.

### Constructors

**TseCmdDataImportInitialize(TransactionType, string, ulong, ulong, ulong, string, bool)**

Constructor.

### Declaration

```
public TseCmdDataImportInitialize(TransactionType transactionType, string clientId, ulong transactionNumber, ulong processDataLength, ulong processTypeLength, string processType,
```

### Parameters

Type	Name	Description
<a href="#">TransactionType</a>	transactionType	The type of the transaction.
<a href="#">string</a>	clientId	The client id (register) for the transaction.
<a href="#">ulong</a>	transactionNumber	The transaction number
<a href="#">ulong</a>	processDataLength	The length of the process data to store.
<a href="#">ulong</a>	processTypeLength	The length of the process type to store.
<a href="#">string</a>	processType	The process type of the process.
<a href="#">bool</a>	highspeed	True if highspeed mode should be used (default); otherwise false.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> or parameter <code>processType</code> are set to null or empty string.
<a href="#">ArgumentException</a>	Thrown if length of parameter <code>clientId</code> exceeds 30 characters or if transaction type is <a href="#">TransactionStart</a> and parameter <code>transactionNumber</code> is not 0.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

### Properties

#### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload for the response.

#### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

#### Overrides

[TseCmdBase.GetResponseType\(byte\[\]\)](#)

#### Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Class TseCmdDataImportInitialize.Response

Response class for the command [TseCmdDataImportInitialize](#).

## Inheritance

[object](#)  
[ByteArrayConverterBase](#)  
[TseCommandResponse](#)  
TseCmdDataImportInitialize.Response

## Implements

[ITseCommandResponse](#)

## Inherited Members

[TseCommandResponse.ResultCode](#)  
[TseCommandResponse.CommandLength](#)  
[TseCommandResponse.CommandResponse](#)  
[TseCommandResponse.Payload](#)  
[TseCommandResponse.ResponseBytes](#)  
[TseCommandResponse.ToString\(\)](#)  
[ByteArrayConverterBase.ByteArray](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)  
[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)  
[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)  
[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDataImportInitialize.Response : TseCommandResponse, ITseCommandResponse
```

## Constructors

### Response(byte[])

Constructor.

## Declaration

```
public Response(byte[] payload)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	payload	The payload of the response in bytes.
------------------------	---------	---------------------------------------



## Properties

### TransactionPayloadSectorOffset

Transaction Payload-Sector Offset

#### Declaration

```
public ulong TransactionPayloadSectorOffset { get; }
```

#### Property Value

#### Type Description

[ulong](#)

#### Implements

[ITseCommandResponse](#)

# Class TseCmdDataImportRollback

Performs a rollback of the actual data import.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdDataImportRollback

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDataImportRollback : TseCmdBase
```

## Remarks

In case there are any errors on the host while performing a Data Import (e.g. the host application crashes), host and TOE might go out of sync and the import cannot be completed successfully.

In that case, the import can be rolled back, which clears all pending data from the TSE Store and allows a new import to be started. The TOE will behave as if Data Import Initialize was never called.

Rolling back a Data Import is only possible before the Log Messages has been generated and signed during Data Import Finalize. Afterwards, the Data Import was already persisted and is thus not allowed to be rolled back. If there is no Data Import in progress while calling this command, it will still return with [0x0000: Execution successful], but have no effect.

## Constructors

### TseCmdDataImportRollback()

Constructor.

## Declaration

```
public TseCmdDataImportRollback()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

**Overrides**

[TseCmdBase.PossibleErrorCodes](#)

# Class TseCmdDecommissionTse

When the TOE should not be used anymore, it must be decommissioned with this command.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdDecommissionTse

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDecommissionTse : TseCmdBase
```

## Remarks

Successful execution of this command will permanently remove the ability to store new transactions in the TOE as the CSP can no longer perform signatures afterwards. After issuing this command, the TSEInitialized state (see Section 4.1) will be deactivated permanently and command Initialize TSE will be blocked to prevent reinitialization of the TSE.

Decommissioning is only allowed if there are no unfinished transactions, otherwise the command will fail with [0x1014: TSE contains unfinished transactions].

## Constructors

### TseCmdDecommissionTse()

Constructor.

### Declaration

```
public TseCmdDecommissionTse()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

**Overrides**

[TseCmdBase.PossibleErrorCodes](#)

# Class TseCmdDeleteExportedData

Deletes all data that has been successfully exported before.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdDeleteExportedData

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDeleteExportedData : TseCmdBase
```

## Remarks

This command requires a complete, unfiltered export and acknowledgement of the ERS (see Section 4.6.5) before data can be deleted.

No new data must have been generated since the last export in order to successfully execute this command.

Please note that after the TSE Store has been filled with more than 3gb of data, the next deletion might take up to 15 minutes, because the TSE runs an internal garbage collection to restore flash health and performance. This limitation does not apply if the deletion is performed with a TSE Store that is not filled with so much data.

## Constructors

### TseCmdDeleteExportedData()

Constructor.

## Declaration

```
public TseCmdDeleteExportedData ()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

**Overrides**

[TseCmdBase.PossibleErrorCodes](#)

# Class TseCmdDeregisterClient

Removes a client from the list of authorized clients.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdDeregisterClient

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDeregisterClient : TseCmdBase
```

## Remarks

In case the client is not registered, this command will fail with [0x1011: Client not registered]. Before a client can be deregistered, all transactions belonging to that client must be finished first, otherwise the command will fail with [0x1013: Client has unfinished transactions].

An unfinished transaction always belongs to the client that updated it most recently (or started the transaction in case it was never updated at all). Please be aware that for passing the self test (see Section 4.2.1) at least one client must be registered.

## Constructors

### TseCmdDeregisterClient(string)

Constructor.

## Declaration

```
public TseCmdDeregisterClient(string clientId)
```

## Parameters

Type Name	Description
<a href="#">string</a>	clientId ASCII string representing the unique serial number of the client to register.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.



## Type

## Condition

[ArgumentException](#) Thrown if parameter `clientId` is longer than 30 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

### Type

### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdDisableCtssInterface

This command can be used to disable the CTSS Interface.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdDisableCtssInterface

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponse Type\(byte\[\]\)](#)  
[TseCmdBase.FormatCommandBytes\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDisableCtssInterface : TseCmdBase
```

## Remarks

An enabled CTSS interface is a pre-requisite for many other commands that are described in this specification. The current status of the CTSS interface can be obtained by reading bit 2 from the TSE Security value from TSE Status.

After disabling the interface, commands that require the CTSSInterfaceState to be active can not be executed anymore. Thus, when sending the TSE to maintenance, it is recommended to disable the CTSS interface in order to prevent reading the recorded transactions.

The setting that is changed by this command is persisted across power cycles.

## Constructors

### TseCmdDisableCtssInterface()

Constructor.

## Declaration

```
public TseCmdDisableCtssInterface()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

**Overrides**

[TseCmdBase.PossibleErrorCodes](#)

# Class TseCmdDisableExportIfCspTestFails

Disables export if csp test fails.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdDisableExportIfCspTestFails

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdDisableExportIfCspTestFails : TseCmdBase
```

## Remarks

The TOE allows to determine the behavior of the TOE with respect to the export of data if the CSP test fails during the self test.

To disable the functionality of export and prevent any data from being exported if the CSP test fails, use this command. Please note that in case of a broken CSP, the data on the TOE is then lost and can not be recovered. This is the factory default behavior.

This setting can only be changed while the CSP test is still passing. As soon as the test fails, it is too late to change this setting and this command will fail. This setting is persisted across power cycles.

## Constructors

### TseCmdDisableExportIfCspTestFails()

Constructor.

## Declaration

```
public TseCmdDisableExportIfCspTestFails()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

**Overrides**

<a href="#">TseCmdBase.PossibleErrorCodes</a>	
---	--

# Class TseCmdEnableCtssInterface

This command can be used to enable the CTSS Interface.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdEnableCtssInterface

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponse Type\(byte\[\]\)](#)  
[TseCmdBase.FormatCommandBytes\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdEnableCtssInterface : TseCmdBase
```

## Remarks

An enabled CTSS interface is a pre-requisite for many other commands that are described in this specification. The current status of the CTSS interface can be obtained by reading bit 2 from the TSE Security value from TSE Status.

## Constructors

### TseCmdEnableCtssInterface()

Constructor.

## Declaration

```
public TseCmdEnableCtssInterface()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

## Overrides



# Class TseCmdEnableExportIfCspTestFails

The TOE allows to determine the behavior of the TOE with respect to the export of data if the CSP test fails during the self test.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdEnableExportIfCspTestFails

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdEnableExportIfCspTestFails : TseCmdBase
```

## Remarks

By default, no data can be exported anymore if the CSP test fails due to a broken security module. To allow data to be exportable if the CSP test fails, this command can be used. Please note that this command will only allow to do a complete export (see Section 3.3) of the tar archive; the export commands given in Section 4.6 will still be disabled. Also, all commands of the TOE that require a successful self test for their execution will still be inaccessible. This command can only be used while the CSP self test is still passing. As soon as the test fails, it is too late to change this setting and this command will fail.

This setting is persisted across power cycles.

## Constructors

### TseCmdEnableExportIfCspTestFails()

Constructor.

## Declaration

```
public TseCmdEnableExportIfCspTestFails()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value



Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

**Overrides**

<a href="#">TseCmdBase.PossibleErrorCodes</a>	
---	--

# Class TseCmdFactoryReset

Command for factory reset of tse.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdFactoryReset

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdFactoryReset : TseCmdBase
```

## Constructors

### TseCmdFactoryReset()

Constructor.

### Declaration

```
public TseCmdFactoryReset()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### Property Value

Type

Description

[TseCommandStatusResponse\[\]](#)

## Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

[FormatCommandBytes\(\)](#)

**Declaration**

```
protected override void FormatCommandBytes()
```

**Overrides**

[TscCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdFetchCommandResponse

This command must be used if and only if the Result Code of a previously executed command is 0xFD. It will then deliver the response of the previously issued command.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdFetchCommandResponse

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[TseCmdBase.FormatCommandBytes\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdFetchCommandResponse : TseCmdBase
```

## Remarks

No further commands will be accepted by the TOE if the last command's Result Code was 0xFD until Fetch Command Response is issued. In that case, any other command will simply be ignored, which can be detected as the Write Index in the command response is not increased then.

## Constructors

### TseCmdFetchCommandResponse()

Constructor

### Declaration

```
public TseCmdFetchCommandResponse()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

## Overrides



# Class TseCmdFirmwareUpdateApply

Applies a firmware update that was previously transferred to the TOE with command TSE Firmware Update Transfer.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdFirmwareUpdateApply

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdFirmwareUpdateApply : TseCmdBase
```

## Remarks

The firmware will be checked by the CSP for authenticity and integrity before being applied. Please note that this is a long running operation, which – depending on the size of the firmware update – might take several minutes to complete. It must be ensured that there is no power loss while applying the firmware update, as this might brick the device and make it unusable. Therefore it is recommended to export all data before applying a firmware update. However, only the last seconds of the firmware update process are critical and must not be interrupted, losing power anywhere prior does not affect the TOE at all.

In case the firmware update succeeds, the TSE automatically performs a power cycle. In that case the Write Index in the response will be set to 0. Since this situation can not be distinguished from a power cycle that happened randomly during the update process, the ERS should read the currently installed TSE Software Version (see Section 3.2) before applying the update and read it again after the update has been completed. If the new value is numerical bigger than the old value, the update was successfully applied.

If the Firmware Update Package Size is 0 or not a multiple of 512, this command will fail with [0x1007: Invalid parameter]. If the decrypted firmware package can not be parsed, this command will fail with [0x1064: Firmware Update: Wrong format]. If the firmware package to be installed does not have a higher version number as the one currently installed, this command will fail with [0x1067: Firmware Update: downgrade prohibited] to prevent downgrading the TOE to an earlier version.

## Constructors

### TseCmdFirmwareUpdateApply(uint)

Constructor.

## Declaration

```
public TseCmdFirmwareUpdateApply(uint firmwareUpdatePackageSize)
```

## Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">uint</a>	firmwareUpdatePackageSize	Total size of the firmware package that has been transferred with TSE Firmware Update Transfer. Big Endian.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdFirmwareUpdateTransfer

Transfers a firmware update package to the TOE.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdFirmwareUpdateTransfer

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdFirmwareUpdateTransfer : TseCmdBase
```

## Remarks

Since the firmware package can be quite large, it must be transferred in multiple chunks. The first chunk will be transmitted with a Chunk Offset set to 0 and an arbitrary Chunk Length L1. The next chunk will be transmitted with a Chunk Offset equal to L1 and a Chunk Length of L2. Another chunk will be transferred with a Chunk Offset of L1 + L2 and a Chunk Length of L3 and so on until the final chunk has been transferred. To then apply the update, call command TSE Firmware Update Apply. If the Chunk Offset is bigger than the reserved space for a firmware update package, this command will fail with [0x1007: Invalid parameter]. Additionally, Chunk Offset and Chunk Length must be multiples of 16, otherwise this command will fail with [0x1007: Invalid parameter].

## Constructors

**TseCmdFirmwareUpdateTransfer(uint, ushort, byte[])**

Constructor.

## Declaration

```
public TseCmdFirmwareUpdateTransfer(uint chunkOffset, ushort chunkLength, byte[] chunkData)
```

## Parameters

Type	Name	Description
<a href="#">uint</a>	chunkOffset	Offset in the firmware package where Chunk Data is stored. Big Endian.
<a href="#">ushort</a>	chunkLength	Size of the current chunk in bytes. Big Endian.
<a href="#">byte[]</a>	chunkData	Raw data of the current chunk.

## Exceptions



## Type

## Condition

[ArgumentNullException](#) Thrown if parameter `chunkData` is set to null.

[ArgumentException](#) Thrown if parameter `chunkData` is an empty array.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdGetLastTransactionResponse

This command can be used to query the last transaction's response.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdGetLastTransactionResponse

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdGetLastTransactionResponse : TseCmdBase
```

## Remarks

Optionally, instead of returning the newest transaction response, the last transaction response that was created by a specific client can be queried by providing a non zero-length Client ID to filter for.

This command is useful in case the ERS loses track of the last transaction result (e.g. because it crashes or loses power). In that case, the ERS might not know if the last executed transaction was properly finalized or not and can query the last transaction's response with this command to sync its internal state with the TOE state.

## Constructors

### TseCmdGetLastTransactionResponse(string)

Constructor.

### Declaration

```
public TseCmdGetLastTransactionResponse(string clientId)
```

### Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a>	clientId ASCII string representing the unique serial number of the client to register.
------------------------	--

### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
---------------------------------------	---

## Type

## Condition

[ArgumentException](#) Thrown if parameter `clientId` is longer than 30 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdGetLogMessageCertificate

Returns the certificate that is associated with the signatures created by the TOE.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdGetLogMessageCertificate

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdGetLogMessageCertificate : TseCmdBase
```

## Remarks

This certificate can be used to verify the signatures of all Log Messages created by the TOE.

The returned data is a single PEM file, which contains the complete certificate chain.

To verify a signature, only the leaf certificate (the first one in the PEM file) is required. However, in order to ensure that the certificate whose key has been used stems from the correct PKI, the certificate chain shall be verified back to the root of the PKI. Please refer to [AGD] for more details on how the root key of the PKI can be obtained. Since the whole data might not fit into one response block, a Data Offset must be provided to select which parts of the certificate file should be returned. In case this number is equal to or bigger than the stored certificate file, the command will fail with [0x1007: Invalid parameter].

## Constructors

### TseCmdGetLogMessageCertificate(uint)

Constructor.

## Declaration

```
public TseCmdGetLogMessageCertificate(uint dataOffset)
```

## Parameters

Type	Name	Description
<a href="#">uint</a>	dataOffset	Selects from which offset the certificate data should be returned.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

## Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload for the response.

#### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

## Overrides

[TseCmdBase.GetResponseType\(byte\[\]\)](#)

## Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

## Interface

# TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse

Response class interface for command [TseCmdGetLogMessageCertificate](#).

### Inherited Members

[ITseCommandResponse.ResultCode](#)

[ITseCommandResponse.CommandResponse](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public interface TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse : ITseCommandResponse
```

## Properties

### CertificateData

Returns the certificate data.

#### Declaration

```
byte[] CertificateData { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### CertificateDataLength

Length of the certificate data in this response block.

#### Declaration

```
ushort CertificateDataLength { get; }
```

#### Property Value

#### Type Description

[ushort](#)

# Class TseCmdGetLogMessageCertificate.Response

Response class for command [TseCmdGetLogMessageCertificate](#).

## Inheritance

[object](#)  
[ByteArrayConverterBase](#)  
[TseCommandResponse](#)  
TseCmdGetLogMessageCertificate.Response

## Implements

[TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse](#)  
[ITseCommandResponse](#)

## Inherited Members

[TseCommandResponse.ResultCode](#)  
[TseCommandResponse.CommandLength](#)  
[TseCommandResponse.CommandResponse](#)  
[TseCommandResponse.Payload](#)  
[TseCommandResponse.ResponseBytes](#)  
[TseCommandResponse.ToString\(\)](#)  
[ByteArrayConverterBase.ByteArray](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)  
[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)  
[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)  
[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdGetLogMessageCertificate.Response : TseCommandResponse, TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse, ITseCommandResponse
```

## Constructors

### Response(byte[])

Constructor.

### Declaration

```
public Response(byte[] payload)
```

### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload of the response in bytes.

## Properties

### CertificateData

Returns the certificate data.

### Declaration

```
public byte[] CertificateData { get; }
```

### Property Value

#### Type Description

[byte\[\]](#)

### CertificateDataLength

Length of the certificate data in this response block.

### Declaration

```
public ushort CertificateDataLength { get; }
```

### Property Value

#### Type Description

[ushort](#)

## Implements

[TseCmdGetLogMessageCertificate.ITseCmdGetLogMessageCertificateResponse](#)  
[ITseCommandResponse](#)



# Class TseCmdInitializeTse

Command to initialize the tse.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdInitializeTse

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponse Type\(byte\[\]\)](#)  
[TseCmdBase.FormatCommandBytes\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdInitializeTse : TseCmdBase
```

## Remarks

By initializing the TOE, the user takes ownership of the TOE and activates the TSEInitialized state (see Section 4.1), which allows commands that need this state to be active to be executed.

## Constructors

### TseCmdInitializeTse()

Constructor.

## Declaration

```
public TseCmdInitializeTse()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

## Overrides



# Class TseCmdListRegisteredClients

Lists all registered clients in chunks of 16 clients.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdListRegisteredClients

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdListRegisteredClients : TseCmdBase
```

## Remarks

By providing a non-zero value for Client Offset, this amount of clients can be skipped from the beginning of the returned list. For example, a value of 0 will return the first 16 registered clients and a value of 3 will return the 4th to 19th registered clients.

The Amount field in the response gives the amount of client IDs that are stored in the response. If this is smaller than 16, then there are no further clients registered.

## Constructors

### TseCmdListRegisteredClients(int)

Constructor.

### Declaration

```
public TseCmdListRegisteredClients(int clientOffset)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	clientOffset	The offset from where the clients should be read.
---------------------	--------------	---

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

## Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

## Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

Type	Name	Description
------	------	-------------

[byte\[\]](#) payload The payload for the response.

#### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

## Overrides

[TseCmdBase.GetResponseType\(byte\[\]\)](#)

## Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Interface TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse

Response class interface for command list registered clients.

## Inherited Members

[ITseCommandResponse.ResultCode](#)

[ITseCommandResponse.CommandResponse](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse : ITseCommandResponse
```

## Properties

### ClientCount

Returns the count of returned clients with this command.

#### Declaration

```
int ClientCount { get; }
```

#### Property Value

### Type Description

[int](#)

### Clients

Returns the client as maximum 30 characters strings in a list.

#### Declaration

```
List<string> Clients { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	
------------------------------------	--

# Class TseCmdListRegisteredClients.Response

Response class for command list registered clients.

## Inheritance

[object](#)

[ByteArrayConverterBase](#)

[TseCommandResponse](#)

TseCmdListRegisteredClients.Response

## Implements

[TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse](#)

[ITseCommandResponse](#)

## Inherited Members

[TseCommandResponse.ResultCode](#)

[TseCommandResponse.CommandLength](#)

[TseCommandResponse.CommandResponse](#)

[TseCommandResponse.Payload](#)

[TseCommandResponse.ResponseBytes](#)

[TseCommandResponse.ToString\(\)](#)

[ByteArrayConverterBase.ByteArray](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)

[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)

[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)

[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class TseCmdListRegisteredClients.Response : TseCommandResponse, TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse, ITseCommandResponse
```

## Constructors

### Response(byte[])

Constructor.

### Declaration

```
public Response(byte[] payload)
```

### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload of the response in bytes.

## Properties

### ClientCount

Returns the count of returned clients with this command.

### Declaration

```
public int ClientCount { get; }
```

### Property Value

### Type Description

[int](#)

### Clients

Returns the client as maximum 30 characters strings in a list.

### Declaration

```
public List<string> Clients { get; }
```

### Property Value

**Type**   **Description**

[List<string>](#)

**Implements**

[TseCmdListRegisteredClients, ITseCmdListRegisteredClientsResponse](#)

[ITseCommandResponse](#)

# Class TseCmdListStartedTransactions

Lists all started transaction numbers in chunks of 62 transactions.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdListStartedTransactions

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdListStartedTransactions : TseCmdBase
```

## Remarks

By providing a non-zero value for Transaction Offset, this amount of transaction numbers can be skipped from the beginning of the returned list. For example, a value of 0 will return the first 62 started transaction numbers and a value of 3 will return the 4th to 65th transaction numbers.

The Amount field in the response gives the amount of transaction numbers that are stored in the response. If this is smaller than 62, then there are no further started transactions.

Optionally, only transactions belonging to a specific client can be queried by providing a non zero-length Client ID to filter for. An unfinished transaction always belongs to the client that updated it most recently (or started the transaction in case it was never updated at all). That means that if a transaction is started by client A and then updated by client B, this command will return this specific transaction number only when filtering for transactions belonging to client B (or when not filtering at all), not when filtering for transactions belonging to client A, because client B was the last client that updated the transaction.

## Constructors

### TseCmdListStartedTransactions(uint, string)

Constructor.

## Declaration

```
public TseCmdListStartedTransactions(uint skipTransactionOffset, string clientId)
```

## Parameters

Type	Name	Description
<a href="#">uint</a>	skipTransactionOffset	
<a href="#">string</a>	clientId	ASCII string representing the unique serial number of the client to register.

## Exceptions



## Type

## Condition

[ArgumentNullException](#) Thrown if parameter `clientId` is set to null or empty string.

[ArgumentException](#) Thrown if parameter `clientId` is longer than 30 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

#### Type Name

#### Description

[byte\[\]](#) payload The payload for the response.

#### Returns

#### Type

#### Description

[TseCommandResponse](#) The command response for this command.

#### Overrides

[TseCmdBase.GetResponseType\(byte\[\]\)](#)

**Remarks**

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Interface TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse

Response class interface for command [TseCmdListStartedTransactions](#).

## Inherited Members

[ITseCommandResponse.ResultCode](#)

[ITseCommandResponse.CommandResponse](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse : ITseCommandResponse
```

## Properties

### Count

Returns the number of started transactions in the response. Maximum is 61.

#### Declaration

```
int Count { get; }
```

#### Property Value

### Type Description

[int](#)

### TransactionList

Returns the list of open transactions.

#### Declaration

```
List<ulong> TransactionList { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">List&lt;ulong&gt;</a>	
-----------------------------------	--

## Class TseCmdListStartedTransactions.Response

Response class for command [TseCmdListStartedTransactions](#).

### Inheritance

[object](#)  
[ByteArrayConverterBase](#)  
[TseCommandResponse](#)  
TseCmdListStartedTransactions.Response

### Implements

[TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse](#)  
[ITseCommandResponse](#)

### Inherited Members

[TseCommandResponse.ResultCode](#)  
[TseCommandResponse.CommandLength](#)  
[TseCommandResponse.CommandResponse](#)  
[TseCommandResponse.Payload](#)  
[TseCommandResponse.ResponseBytes](#)  
[TseCommandResponse.ToString\(\)](#)  
[ByteArrayConverterBase.ByteArray](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)  
[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)  
[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)  
[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public class TseCmdListStartedTransactions.Response : TseCommandResponse, TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse, ITseCommandResponse
```

### Constructors

#### Response(byte[])

Constructor.

#### Declaration

```
public Response(byte[] payload)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload of the response in bytes.

### Properties

#### Count

Returns the number of started transactions in the response. Maximum is 61.

#### Declaration

```
public int Count { get; }
```

#### Property Value

#### Type Description

[int](#)

#### TransactionList

Returns the list of open transactions.

#### Declaration

```
public List<ulong> TransactionList { get; }
```

#### Property Value

#### Type Description

[List<ulong>](#)

## Implements

[TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse](#)  
[ITseCommandResponse](#)

# Class TseCmdLogin

Authenticates users of the TOE based on their PIN.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdLogin

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdLogin : TseCmdBase
```

## Remarks

After successful execution of this command by a user, the corresponding role will be added to the set of active roles, which might allow to execute privileged commands. For example: if the command is called with the Admin's User ID and is successfully executed, the user will be allowed to execute commands that require the Admin role afterwards. These changes to the role context are applied immediately after the command returns. If the command fails, the roles that are associated with the current user context do not change. In this case, the command returns [0x11xx: Authentication failed, xx give the number of remaining retries].

The current user context can be associated with multiple roles at the same time. If multiple users with different roles are logged in, the effective privileges are the union of all logged in roles (e.g. if Admin and TimeAdmin are logged in, the time can be set and administrative commands can be sent).

After a reboot of the TOE, all users are logged out again.

In case the provided PIN is wrong, the command will respond with [0x11xx: Authentication failed, xx give the number of remaining retries] and the retry counter is decreased. If the retry counter is currently 1 and the wrong PIN is used (thus the retry counter reaches 0), the number of remaining retries will be set to 0 and the SW will be 0x1100. Afterwards, both an authentication with and without a valid PIN will return [0x1201: PIN is blocked]. In order to login the user again, the user must be unblocked with command Unblock User. This command causes a Log Message to be signed and thus can only be executed if the CSP is still operational.

## Constructors

### TseCmdLogin(int, string)

Constructor.

### Declaration

```
public TseCmdLogin(int userId, string pin)
```

### Parameters

Type Name	Description
-----------	-------------

## Type Name

## Description

[int](#) `userId` The userid of the user to login. Must be one of this values: 0, 1, 2. (0 = normal, 1 = admin, 2 = time admin).

[string](#) `pin` The pin of the user for logon.

## Exceptions

### Type

### Condition

[ArgumentOutOfRangeException](#) Thrown if parameter `userId` is not one of this values: 0, 1, 2.

[ArgumentException](#) Thrown if parameter `pin` is not 5 characters long.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

### Declaration

```
protected override void FormatCommandBytes()
```

### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdLogout

Logs out the given user. The user must be logged in, otherwise the command will fail with [0x1202: Given user is not authenticated].

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdLogout

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdLogout : TseCmdBase
```

## Remarks

On successful execution, the user's role will be immediately removed from the active roles and privileged commands might not be executable anymore. Please refer to Login User for more details about the relationship between users and their roles.

This command causes a Log Message to be signed and thus can only be executed if the CSP is still operational.

## Constructors

### TseCmdLogout(int)

Constructor.

### Declaration

```
public TseCmdLogout(int userId)
```

### Parameters

Type Name	Description
-----------	-------------

<a href="#">int</a>	userId The userid for logout.
---------------------	-------------------------------

### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
---	---

## Fields



## **\_userId**

### **Declaration**

```
protected readonly int _userId
```

### **Field Value**

### **Type Description**

[int](#)

## **Properties**

### **PossibleErrorCodes**

Returns the possible error codes for this command.

### **Declaration**

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

### **Property Value**

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

### **Overrides**

[TseCmdBase.PossibleErrorCodes](#)

## **Methods**

### **FormatCommandBytes()**

### **Declaration**

```
protected override void FormatCommandBytes()
```

### **Overrides**

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdPollFilteredExport

After a filtered export has been initiated with Start Filtered Export, the actual data must be queried in small chunks by repeatedly calling this command.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdPollFilteredExport

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.FormatCommandBytes\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdPollFilteredExport : TseCmdBase
```

## Remarks

The returned data must be concatenated to form the final TAR archive.

The export is complete if this command returns a zero length chunk.

A filtered export is a very time consuming operation. The TSE will collect the data that matches the filter in the background and waits for the ERS to collect them. If the TOE did not find new matching data since the last call, the command will fail with [0x2002: Filtered Export: no new data, keep polling]. In that case, the ERS should repeat the command after a short delay to give the TOE some time to search for new data.

A filtered export either completely finishes by returning a zero length chunk, fails because of an error, or must be aborted with Abort Filtered Export. If the TSE loses power during a filtered export, the export will be aborted automatically and must be restarted from scratch.

If no data could be found that matches the supplied filter, this command will fail with [0x2003: Filtered Export: no matching entries, export would be empty].

## Constructors

### TseCmdPollFilteredExport()

Constructor.

## Declaration

```
public TseCmdPollFilteredExport()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

## Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

#### Methods

##### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload for the response.

#### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

#### Overrides

[TseCmdBase.GetResponseType\(byte\[\]\)](#)

#### Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Class TseCmdPollFilteredExport.Response

The response for the command [TseCmdPollFilteredExport](#).

## Inheritance

[object](#)  
[ByteArrayConverterBase](#)  
[TseCommandResponse](#)  
TseCmdPollFilteredExport.Response

## Implements

[ITseCommandResponse](#)

## Inherited Members

[TseCommandResponse.ResultCode](#)  
[TseCommandResponse.CommandLength](#)  
[TseCommandResponse.CommandResponse](#)  
[TseCommandResponse.Payload](#)  
[TseCommandResponse.ResponseBytes](#)  
[TseCommandResponse.ToString\(\)](#)  
[ByteArrayConverterBase.ByteArray](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)  
[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)  
[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)  
[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)  
[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)  
[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdPollFilteredExport.Response : TseCommandResponse, ITseCommandResponse
```

## Constructors

### Response(byte[])

Constructor.

## Declaration

```
public Response(byte[] payload)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	payload	The payload of the response in bytes.
------------------------	---------	---------------------------------------

## Properties

### ExportData

Export data.

#### Declaration

```
public byte[] ExportData { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### ExportDataLength

Length of the exported data in this response block. If this is 0, the end of the exported data has been reached and the export is complete. Big Endian.

#### Declaration

```
public ushort ExportDataLength { get; }
```

#### Property Value

#### Type Description

[ushort](#)

## Implements

[ITseCommandResponse](#)

# Class TseCmdRegisterClient

Registers a client (i.e. an ERS) as a valid system for self tests and transactions.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdRegisterClient

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdRegisterClient : TseCmdBase
```

## Remarks

A client is identified by its ID, which shall be a unique string (e.g.its serial number). If the same client is already registered, the command will be successful, but the client will not be registered twice.

The amount of currently and maximally registered clients can be obtained from TSE Status.If this number has been reached and the command is executed again, it will fail with [0x1010: Maximum registered clients reached].

## Constructors

### TseCmdRegisterClient(string)

Constructor.

### Declaration

```
public TseCmdRegisterClient(string clientId)
```

### Parameters

Type Name	Description
<a href="#">string</a>	clientId ASCII string representing the unique serial number of the client to register.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.

## Type

## Condition

[ArgumentException](#) Thrown if parameter `clientId` is longer than 30 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdSelfTestRun

Runs a self test for the tse.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdSelfTestRun

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdSelfTestRun : TseCmdBase
```

## Remarks

After each power cycle, the TOE runs a self test to ensure proper operation of its internal modules. The self test consists of three parts:

1. Test of the TOE itself (e.g. data consistency). This part of the self test includes a health test of the random number generator. If this test fails, the command fails with [0x1300: Self test of FW failed] or with [0x1320: Self test of RNG failed] in the case that the source of the error is the RNG.
2. Test of the CSP. If this test fails, the command fails with [0x1310: Self test of CSP failed].
3. Test of the ERS. If this test fails, the command fails with [0x1011: Client not registered].

Since the self test depends on the Client ID provided by the ERS, the self test can only be completed successfully by issuing this command and thus must be run as first command after the TOE boots, otherwise no other command can be executed. The client must have been registered before with command Register Client, otherwise this command will fail with [0x1011: Client not registered].

The self test can be repeated whenever it is desired by the ERS, but it must be run at least once every 25 hours. Otherwise, the TOE will set the state selfTestRun to inactive, which makes all future commands fail until the self test is run successfully again. The time until the selfTestRun state will be made inactive can be retrieved as Time Until Next Selftest from TSE Status.

The self test is a potentially long running operation that might take up to 60 seconds to complete.

Please note that the CSP gets power cycled during the self test and thus the internal time will be set back to zero and must be set again after a successful self test.

## Constructors

### TseCmdSelfTestRun(string)

Constructor.

## Declaration

```
public TseCmdSelfTestRun(string clientId)
```

## Parameters



## Type Name

## Description

[string](#) `clientId` ASCII string representing the unique serial number of the client. Maximum of 30 characters.

### Exceptions

#### Type

#### Condition

[ArgumentNullException](#) Thrown if parameter `clientId` is set to null or empty string.

[ArgumentException](#) Thrown if parameter `clientId` is longer than 30 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

#### Type

#### Description

[TseCommandStatusResponse\[\]](#)

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdStartFilteredExport

This command starts a filtered export of stored Log Messages by supplying a filter.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdStartFilteredExport

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.GetResponse\(byte\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdStartFilteredExport : TseCmdBase
```

## Remarks

The Log Messages are collected in the background and can be fetched by repeatedly calling Poll Filtered Export.

The exported Log Messages can be filtered based on their timestamp, transaction number, and the client that created the transaction. Filter criteria can be combined as defined in [BSI - TR - 03153]. It is possible to filter based on • Transaction Number and Client-ID • StartTransactionNumber to EndTransactionNumber and Client-ID • TimeStampStart to TimeStampEnd and Client-ID

All System and Audit Log Messages that were created between the first included Log Message belonging to a transaction start and the last included Log Message belonging to a transaction finish, will also be included in the exported data.

If the supplied filter is inconsistent, i.e. Timestamp End is lower than Timestamp Start or Transaction Number End is lower than Transaction Number Start, this command will fail with [0x1007: Invalid parameter].

## Constructors

**TseCmdStartFilteredExport(ulong, ulong, ulong, ulong, string)**

Constructor.

## Declaration

```
public TseCmdStartFilteredExport(ulong timestampStart, ulong timestampEnd, ulong transactionNumberStart, ulong transactionNumberNumberEnd, string clientId)
```

## Parameters

Type	Name	Description
<a href="#">ulong</a>	timestampStart	Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. If 0, it will be treated as the beginning of time. Big Endian.
<a href="#">ulong</a>	timestampEnd	Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. If 0xFFFFFFFFFFFFFFFF, it will be treated as infinity. Big Endian.
<a href="#">ulong</a>	transactionNumberStart	Start transaction number (inclusive). Big Endian.
<a href="#">ulong</a>	transactionNumberNumberEnd	End transaction number (inclusive). If 0xFFFFFFFFFFFFFFFF, all transactions will be returned. If this is the same as Transaction Number Start, only transaction data belonging to this single transaction will be exported. Big Endian.
<a href="#">string</a>	clientId	ASCII string representing the unique serial number of the client. Use a zero length string to not filter for a client ID.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>clientId</code> is set to null or empty string.
<a href="#">ArgumentException</a>	Thrown if parameter <code>clientId</code> is longer than 30 characters.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

**Declaration**

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

**Property Value**

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

**Overrides**

[TseCmdBase.PossibleErrorCodes](#)

**Methods****FormatCommandBytes()****Declaration**

```
protected override void FormatCommandBytes()
```

**Overrides**

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdTseFlashInformation

Provides low level information about the flash storage.

## Inheritance

[object](#)  
[TseCmdBase](#)  
TseCmdTseFlashInformation

## Inherited Members

[TseCmdBase.Command](#)  
[TseCmdBase.ByteStore](#)  
[TseCmdBase.CommandBytes](#)  
[TseCmdBase.FormatCommandBytes\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdTseFlashInformation : TseCmdBase
```

## Remarks

This command can be used to monitor the flash storage health and detect possible future defects before they occur and apply predictive maintenance.

As a recommendation, the following simple guidance is provided:

1. IfUncorrectable ECC errors is different from 0, the TSE should be replaced.
2. IfPercentage Remaining Spare Blocks All gets below 25%, the TSE should be replaced.
3. If the average erase count (calculated as Block Erases / (Flash Block Count \* 256)) is bigger than 2940, the TSE should be replaced.

Please note that based on the use case of the TSE, which does not involve many flash read or write operations compared to other use cases, it is not expected that any of these conditions will ever be fulfilled during the lifetime of the TSE.

The lowest wear level class (WL) and highest wear level class (WH) fields give the range of wear level classes that are currently in use.Blocks that are not subject to the wear leveling are not counted.The wear level threshold (T) gives the size of a wear level class, minus 1, in units of flash memory block erases.Thus, the number of block erases that the flash blocks have seen is between  $WL*(T+1)$  and  $WH*(T+1)-1$ .

A spare block is a flash block that will used as a replacement for defect blocks.

## Constructors

### TseCmdTseFlashInformation()

Constructor.

### Declaration

```
public TseCmdTseFlashInformation()
```

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### GetResponseType(byte[])

Returns the command response for this command (with payload).

#### Declaration

```
public override TseCommandResponse GetResponseType(byte[] payload)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	payload	The payload for the response.

#### Returns

Type	Description
<a href="#">TseCommandResponse</a>	The command response for this command.

#### Overrides

[TseCmdBase.GetResponseType\(byte\[\]\)](#)

#### Remarks

Most of the commands return [TseCommandResponse](#), certain commands have on command responses. Override this method to return the command specific command response.

# Class TseCmdTseFlashInformation.Response

Response class for the command [TseCmdTseFlashInformation](#).

## Inheritance

[object](#)

[ByteArrayConverterBase](#)

[TseCommandResponse](#)

TseCmdTseFlashInformation.Response

## Implements

[ITseCommandResponse](#)

## Inherited Members

[TseCommandResponse.ResultCode](#)

[TseCommandResponse.CommandLength](#)

[TseCommandResponse.CommandResponse](#)

[TseCommandResponse.Payload](#)

[TseCommandResponse.ResponseBytes](#)

[TseCommandResponse.ToString\(\)](#)

[ByteArrayConverterBase.ByteArray](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)

[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)

[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)

[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdTseFlashInformation.Response : TseCommandResponse, ITseCommandResponse
```

## Constructors

### Response(byte[])

Constructor.

### Declaration

```
public Response(byte[] payload)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	payload	The payload of the response in bytes.
------------------------	---------	---------------------------------------

## Properties

### BlockErases

Total number of block erases. Big Endian.

#### Declaration

```
public ulong BlockErases { get; }
```

#### Property Value

#### Type Description

[ulong](#)

### CorrectableEccErrors

Number of correctable ECC errors(not including startup ECC errors). Big Endian.

#### Declaration

```
public uint CorrectableEccErrors { get; }
```

#### Property Value

#### Type Description

[uint](#)

### DefectBlocks

Number of manufacturer marked defect blocks. Big Endian.

#### Declaration

```
public ushort DefectBlocks { get; }
```

#### Property Value

#### Type Description

[ushort](#)

### EraseCountTarget

Maximum flash block erase count target, in wear level class units. Big Endian.

#### Declaration

```
public ushort EraseCountTarget { get; }
```

#### Property Value

#### Type Description

[ushort](#)

### FlashBlockCount

Number of flash blocks, in units of 256 blocks. Big Endian.

#### Declaration

```
public ushort FlashBlockCount { get; }
```

#### Property Value

## Type Description

[ushort](#)

### HighestWearLevelClass

Big Endian.

#### Declaration

```
public ushort HighestWearLevelClass { get; }
```

#### Property Value

## Type Description

[ushort](#)

### InitialSpareBlocksSum

Number of initial spare blocks (sum over all interleave units). Big Endian.

#### Declaration

```
public ushort InitialSpareBlocksSum { get; }
```

#### Property Value

## Type Description

[ushort](#)

### InitialSpareBlocksWorst

Number of initial spare blocks (worst interleave unit). Big Endian.

#### Declaration

```
public ushort InitialSpareBlocksWorst { get; }
```

#### Property Value

## Type Description

[ushort](#)

### LowestWearLevelClass

Big Endian-

#### Declaration

```
public ushort LowestWearLevelClass { get; }
```

#### Property Value

## Type Description

[ushort](#)

### PercentageRemainingSpareBlocksAll

Percentage of remaining spare blocks(all interleave units).

#### Declaration

```
public byte PercentageRemainingSpareBlocksAll { get; }
```



**Property Value**

**Type Description**

[byte](#)

**PercentageRemainingSpareBlocksWorst**

Percentage of remaining spare blocks(worst interleave unit).

**Declaration**

```
public byte PercentageRemainingSpareBlocksWorst { get; }
```

**Property Value**

**Type Description**

[byte](#)

**PowerOnCount**

Big Endian.

**Declaration**

```
public uint PowerOnCount { get; }
```

**Property Value**

**Type Description**

[uint](#)

**UncorrectableEccErrors**

Number of uncorrectable ECC errors(not including startup ECC errors). Big Endian.

**Declaration**

```
public ushort UncorrectableEccErrors { get; }
```

**Property Value**

**Type Description**

[ushort](#)

**WearLevelThreshold**

Big Endian.

**Declaration**

```
public ushort WearLevelThreshold { get; }
```

**Property Value**

**Type Description**

[ushort](#)

**Implements**

[ITseCommandResponse](#)

# Class TseCmdUnblockUser

Unblocks a user or change the user pin if forgotten.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdUnblockUser

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponseTypes\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdUnblockUser : TseCmdBase
```

## Remarks

This command serves two distinct purposes: On the one hand, the command can be used to unblock a user that has been blocked due to too many unsuccessful authentication attempts. On the other hand, the command can be used to change the PIN of a user. Therefore, it can be used to recover the credentials of a user in case of a forgotten PIN.

As both commands are administrative commands, the PUK must be provided.

The new PIN must be different from the previous one (even when just unblocking the user), otherwise the command will fail with [0x1007: Invalid parameter].

The PUK has an associated retry counter. In case the provided PUK is wrong, the response SW is [0x11xx: Authentication failed, xx give the number of remaining retries] and the retry counter is decreased. If the retry counter is currently 1 and the wrong PUK is used (thus the retry counter reaches 0), the number of remaining retries will be set to 0 and the SW will be 0x1100. Afterwards, both an authentication with and without a valid PUK will return [0x1201: PUK is blocked]. As a blocked PUK can not be recovered from, it is recommended to export all data and decommission the TOE. Afterwards, a new TSE should be used.

This command causes a Log Message to be signed and thus can only be executed if the CSP is still operational.

## Constructors

**TseCmdUnblockUser(int, string, string)**

Constructor

Declaration

```
public TseCmdUnblockUser(int userId, string puk, string pin)
```

Parameters

**Type Name**

**Description**

Type Name	Description
-----------	-------------

<a href="#">int</a> <code>userId</code>	The user to unblock.
---	----------------------

<a href="#">string</a> <code>puk</code>	The administrative puk to authorise this transaction.
---	---

<a href="#">string</a> <code>pin</code>	The new pin for the user.
---	---------------------------

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
---	---

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>puk</code> or parameter <code>pin</code> are set to null or empty string.
---------------------------------------	---

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">TseCommandStatusResponse[]</a>	
--	--

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCmdUpdateTime

Updates the time on the tse.

## Inheritance

[object](#)

[TseCmdBase](#)

TseCmdUpdateTime

## Inherited Members

[TseCmdBase.Command](#)

[TseCmdBase.ByteStore](#)

[TseCmdBase.CommandBytes](#)

[TseCmdBase.GetResponse Type\(byte\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCmdUpdateTime : TseCmdBase
```

## Remarks

After each power cycle, the TSE Store is locked and no transactions are possible until the time of the ERS has been synchronized with the time of the TOE using this command.

The TOE will forward the timestamp to its CSP and will use this time to properly timestamp Log Messages. Depending on the accuracy of the CSP's internal clock, this command must also be called regularly to keep the host and TOE time synchronized. How often the time must be synchronized is announced in TSE Status. Applications should take care to not synchronize the time too frequently as this negatively effects the endurance of the CSP. It is thus recommended to synchronize the time as close as possible to the interval that is announced in TSE Status.

## Constructors

### TseCmdUpdateTime()

Constructor. Sets the timestamp to now.

### Declaration

```
public TseCmdUpdateTime()
```

### TseCmdUpdateTime(DateTimeOffset)

Constructor.

### Declaration

```
public TseCmdUpdateTime(DateTimeOffset timeStamp)
```

## Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">DateTimeOffset</a>	timeStamp	Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported.

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if timestamp represents a year before 1970.

## Properties

### PossibleErrorCodes

Returns the possible error codes for this command.

#### Declaration

```
public override TseCommandStatusResponse[] PossibleErrorCodes { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse[]</a>	

#### Overrides

[TseCmdBase.PossibleErrorCodes](#)

## Methods

### FormatCommandBytes()

#### Declaration

```
protected override void FormatCommandBytes()
```

#### Overrides

[TseCmdBase.FormatCommandBytes\(\)](#)

# Class TseCommandResponse

Represents a tse command response.

## Inheritance

[object](#)

[ByteArrayConverterBase](#)

[TseCommandResponse](#)

[TseCmdDataImportFinalize.Response](#)

[TseCmdDataImportInitialize.Response](#)

[TseCmdGetLogMessageCertificate.Response](#)

[TseCmdListRegisteredClients.Response](#)

[TseCmdListStartedTransactions.Response](#)

[TseCmdPollFilteredExport.Response](#)

[TseCmdTseFlashInformation.Response](#)

## Implements

[ITseCommandResponse](#)

## Inherited Members

[ByteArrayConverterBase.ByteArray](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)

[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)

[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)

[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TseCommandResponse : ByteArrayConverterBase, ITseCommandResponse
```

## Constructors

### TseCommandResponse(byte[])

Constructor.

### Declaration

```
public TseCommandResponse(byte[] responseBytes)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	responseBytes	Response bytes of the tse. Must be an array of length 512.
------------------------	---------------	--

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>responseBytes</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if byte array is not of 512 bytes long.

## Properties

### CommandLength

The length of the command response in bytes.

#### Declaration

```
public int CommandLength { get; }
```

#### Property Value

#### Type Description

[int](#)

### CommandResponse

Returns the command response as [TseCommandStatusResponse](#)

#### Declaration

```
public TseCommandStatusResponse CommandResponse { get; }
```

#### Property Value

Type	Description
<a href="#">TseCommandStatusResponse</a>	

### Payload

The payload of the response (not including first 7 bytes) and not including status word.

#### Declaration

```
public byte[] Payload { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### ResponseBytes

Full response bytes of the command response.

#### Declaration

```
public byte[] ResponseBytes { get; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

## ResultCode

Returns the result code of the command. Just for program flow. Please use [CommandResponse](#) for detailed command response information.

### Declaration

```
public TseCommandResultCode ResultCode { get; }
```

### Property Value

Type	Description
<a href="#">TseCommandResultCode</a>	

## Methods

### ToString()

Returns a string that represents the current object.

### Declaration

```
public override string ToString()
```

### Returns

Type	Description
<a href="#">string</a>	A string that represents the current object.

### Overrides

[object.ToString\(\)](#)

## Implements

[ITseCommandResponse](#)



# Enum TseCommandResultCode

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TseCommandResultCode
```

## Fields

Name	Description
CommandCompleted	
CommandNotCompleted	
CommandResponseAvailable	
CommandSendToCloud	

# Enum TseCommandStatusResponse

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Commands](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TseCommandStatusResponse
```

## Fields

Name	Description
AuthenticationFailedRemainingRetries0	Authentication failed, 0x11xx: xx give the number of remaining retries
AuthenticationFailedRemainingRetries1	Authentication failed, 0x11xx: xx give the number of remaining retries
AuthenticationFailedRemainingRetries2	Authentication failed, 0x11xx: xx give the number of remaining retries
AuthenticationFailedRemainingRetries3	Authentication failed, 0x11xx: xx give the number of remaining retries
AuthenticationFailedRemainingRetries4	Authentication failed, 0x11xx: xx give the number of remaining retries
AuthenticationFailedRemainingRetries5	Authentication failed, 0x11xx: xx give the number of remaining retries
AuthenticationFailedRemainingRetries6	Authentication failed, 0x11xx: xx give the number of remaining retries
CertificateExpired	Certificate expired
ClientHasUnfinishedTransactions	Client has unfinished transactions
ClientNotRegistered	Client not registered
CommandNotFound	Command not found
ExecutionSuccessful	Execution successful
FailedToDeleteDataNotCompletelyExported	Failed to delete, data not completely exported
FilteredExportNoExportInProgress	Filtered Export: no export in progress
FilteredExportNoMatchingEntries	Filtered Export: no matching entries, export would be empty
FilteredExportNoNewDataKeepPolling	Filtered Export: no new data, keep polling
FirmwareUpdateBaseFwUpdateError	Firmware Update: Base FW update error
FirmwareUpdateCspUpdateError	Firmware Update: CSP update error

<b>Name</b>	<b>Description</b>
FirmwareUpdateDecryptionFailed	Firmware Update: Decryption failed
FirmwareUpdateDowngradeProhibited	Firmware Update: downgrade prohibited
FirmwareUpdateFwExtensionUpdateError	Firmware Update: FW Extension update error
FirmwareUpdateIntegrityCheckFailed	Firmware Update: Integrity check failed
FirmwareUpdateInternalError	Firmware Update: Internal error
FirmwareUpdateWrongFormat	Firmware Update: Wrong format
GivenTransactionNotStarted	Given transaction is not started
GivenUserIsNotAuthenticated	Given user is not authenticated
InvalidCommandSyntax	Invalid command syntax
InvalidParameter	Invalid parameter
MaximumParallelTransactionsReached	Maximum parallel transactions reached
MaximumRegisteredClientsReached	Maximum registered clients reached
NoLastTransactionToFetch	No last transaction to fetch
NoTransactionInProgress	No transaction in progress
NotAuthorized	Not authorized
NotEnoughDataWrittenDuringTransaction	Not enough data written during transaction
NotSupported	Status word is not supported by the interface.
OperationFailedNotEnoughRemainingCapacity	Operation failed, not enough remaining capacity in TSE Store
PinIsBlocked	PIN/PUK is blocked
SelfTestCspFailed	Self test of CSP failed
SelfTestFwFailed	Self test of FW failed
SelfTestRngFailed	Self test of RNG failed

Name	Description
SignatureCreationError	Signature creation error
SignaturesExceeded	Signatures exceeded
TimeNotSet	Time not set
TseContainsUnfinishedTransactions	TSE contains unfinished transactions
UnspecifiedInternalProcessError	Unspecified, internal processing error
WrongStateActiveCtssInterfaceRequired	Wrong state, active CTSS interface required
WrongStateChangedPinRequired	Wrong state, changed PIN required
WrongStateChangedPukRequired	Wrong state, changed PUK required
WrongStateNoCommandResponseToFetch	Wrong state, no command response to fetch
WrongStateOnGoingDataImportMustBeFinished	Wrong state, ongoing Data Import must be finished before this command is allowed.
WrongStateOnGoingFilteredExportMustBeFinished	Wrong state, ongoing Filtered Export must be finished before this command is allowed
WrongStatePassedSelfTestRequired	Wrong state, passed self test required
WrongStateSelfTestMustBeRunFirst	Wrong state, self test must be run first
WrongStateTseAlreadyInitialized	Wrong state, TSE already initialized
WrongStateTseDecomissioned	Wrong state, TSE decomissioned
WrongStateTseNotInitialized	Wrong state, TSE not initialized

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Status

## Classes

### [SwissbitStatus](#)

Represents the status of the swissbit tse.

## Interfaces

### [ISwissbitStatus](#)

base class for swissbit status (implementation for file and android communication are done).

## Enums

### [TseInitializationState](#)

# Interface ISwissbitStatus

base class for swissbit status (implementation for file and android communication are done).

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Status](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISwissbitStatus
```

## Properties

### CertificateExpirationDate

Timestamp (as seconds since Unix Epoch) after which the certificate of this TSE will be invalid. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. Big Endian.

#### Declaration

```
ulong CertificateExpirationDate { get; }
```

#### Property Value

#### Type Description

[ulong](#)

### CertificateExpirationDateTimeOffset

Timestamp (as DateTimeOffset) after which the certificate of this TSE will be invalid. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. Big Endian.

#### Declaration

```
DateTimeOffset CertificateExpirationDateTimeOffset { get; }
```

#### Property Value

Type	Description
------	-------------

[DateTimeOffset](#)

### CreatedSignatures

Amount of signatures that have been created with this TSE. Please note that this value might exceed Max Signatures, since Max Signatures is only a soft-cap and it might be possible to actually create more signatures. Big Endian.

#### Declaration

```
uint CreatedSignatures { get; }
```

#### Property Value

#### Type Description

[uint](#)

### CspKeyReference

The csp key reference for swissbit cloud tse.

#### Declaration

```
string CspKeyReference { get; }
```

**Property Value**

**Type Description**

[string](#)

**DataImportInitialized**

False is not data import is initialized; true if a data import is initialized.

**Declaration**

```
bool DataImportInitialized { get; }
```

**Property Value**

**Type Description**

[bool](#)

**FirmwareId**

If Firmware Type is "TST", then this contains an internal id that identifies the test build. Otherwise, this field is set to 0.

**Declaration**

```
uint FirmwareId { get; }
```

**Property Value**

**Type Description**

[uint](#)

**FirmwareType**

Either "RLS" for production ready FW, "DEV" for development FW that can be used by ECR vendors, or "TST" for internal test revisions. The string is null-terminated, i.e. the last byte is set to 0.

**Declaration**

```
string FirmwareType { get; }
```

**Property Value**

**Type Description**

[string](#)

**InitialAdminPinChanged**

True if the initial admin pin (from factory) was changed; otherwise false.

**Declaration**

```
bool InitialAdminPinChanged { get; }
```

**Property Value**

**Type Description**

[bool](#)

**InitialPukChanged**

True if the initial puk (from factory) was changed; otherwise false.

**Declaration**

```
bool InitialPukChanged { get; }
```

**Property Value****Type Description**

[bool](#)

**InitialTimeAdminPinChanged**

True if the initial time admin pin (from factory) was changed; otherwise false.

**Declaration**

```
bool InitialTimeAdminPinChanged { get; }
```

**Property Value****Type Description**

[bool](#)

**LastHeaderBlockIndex**

Sector offset of last TSE entry. This allows to read the TSE Store starting from the end. Only valid if the TSE Store is readable(see Section 3.3), otherwise 0. Big Endian.

**Declaration**

```
uint LastHeaderBlockIndex { get; }
```

**Property Value****Type Description**

[uint](#)

**MaxRegisteredClients**

Maximum number of clients that can be registered. In the current revision, this is 100. Big Endian.

**Declaration**

```
uint MaxRegisteredClients { get; }
```

**Property Value****Type Description**

[uint](#)

**MaxSignatures**

Maximum amount of signatures that can be created with this TSE. Big Endian.

**Declaration**

```
uint MaxSignatures { get; }
```

**Property Value****Type Description**

[uint](#)

**MaxStartedTransactions**



Maximum number of started transactions, i.e. amount of transactions that can be started in parallel. In the current revision, this is 512. Big Endian.

**Declaration**

```
uint MaxStartedTransactions { get; }
```

**Property Value**

**Type Description**

[uint](#)

**MaxTimeSynchronizationDelay**

Interval (in seconds) after which command Update Time must be sent. Big endian.

**Declaration**

```
uint MaxTimeSynchronizationDelay { get; }
```

**Property Value**

**Type Description**

[uint](#)

**MaxUpdateDelay**

Interval (in seconds) after which a started transaction must have received an update in case new data is available on the cash register. This is currently set to 45 seconds according to MAX\_UPDATE\_DELAY from [BSI - TR - 03116 - 5]. Big endian.

**Declaration**

```
uint MaxUpdateDelay { get; }
```

**Property Value**

**Type Description**

[uint](#)

**RegisteredClients**

Number of currently registered clients (see Section 4.2.2). Big Endian.

**Declaration**

```
uint RegisteredClients { get; }
```

**Property Value**

**Type Description**

[uint](#)

**StartedTransactions**

Number of transactions that have not been finished, yet. If this equals Max Started Transactions, no new transactions can be started until at least one transaction has been finished. Only valid if the TSE Store is readable (see Section 3.3), otherwise 0. Big Endian.

**Declaration**

```
uint StartedTransactions { get; }
```

**Property Value**

**Type Description**

## Type Description

[uint](#)

## TimeUntilNextSelftest

Timeout in seconds after which the state selfTestRun will automatically be made inactive. Please see Section 4.2.1 for details.

### Declaration

```
uint TimeUntilNextSelftest { get; }
```

### Property Value

## Type Description

[uint](#)

## TseCapacity

Size of TSE Store in sectors. Big endian.

### Declaration

```
uint TseCapacity { get; }
```

### Property Value

## Type Description

[uint](#)

## TseCurrentSize

Used size of TSE Store. Only valid if the TSE Store is readable (see Section 3.3), otherwise 0. Big endian.

### Declaration

```
uint TseCurrentSize { get; }
```

### Property Value

## Type Description

[uint](#)

## TseDescription

NULL terminated ASCII string containing a short description of the TSE.

### Declaration

```
string TseDescription { get; }
```

### Property Value

## Type Description

[string](#)

## TseExportSize

Size of the whole TSE Store in bytes, if exported (see Section 3.4). Only valid if the TSE Store is readable (see Section 3.3), otherwise 0. Big Endian.

### Declaration

```
ulong TseExportSize { get; }
```

**Property Value**

### **Type Description**

[ulong](#)

### **TseFormFactor**

Either “uSD”, “SD”, or “USB” as null-terminated string. The remaining bytes are filled with zeros.

**Declaration**

```
string TseFormFactor { get; }
```

**Property Value**

### **Type Description**

[string](#)

### **TseHardwareVersion**

Returns the hardware version of the tse.

**Declaration**

```
Version TseHardwareVersion { get; }
```

**Property Value**

### **Type Description**

[Version](#)

### **TseInitializationState**

0: Uninitialized, 1: Initialized, 2: Decommissioned

**Declaration**

```
TseInitializationState TseInitializationState { get; }
```

**Property Value**

<b>Type</b>	<b>Description</b>
-------------	--------------------

<a href="#">TseInitializationState</a>	
--	--

### **TsePublicKey**

Public key that belongs to the private key generating signatures, formatted according to [BSI - TR - 03111] 3.2.1 Uncompressed Encoding. Bytes after TSE Public Key Length are filled with 0x0 and can be discarded. This key can be used to verify all signatures created by the TSE.

**Declaration**

```
byte[] TsePublicKey { get; }
```

**Property Value**

### **Type Description**

[byte\[\]](#)

### **TsePublicKeyLength**

Usable length of TSE Public Key. Maximum length is 100 Bytes.

#### Declaration

```
ushort TsePublicKeyLength { get; }
```

#### Property Value

#### Type Description

[ushort](#)

#### TsePublicKeyString

Public key that belongs to the private key generating signatures, formatted according to [BSI - TR - 03111] 3.2.1 Uncompressed Encoding Bytes after TSE Public Key Length are filled with 0x0 and can be discarded. This key can be used to verify all signatures created by the TSE.

#### Declaration

```
string TsePublicKeyString { get; }
```

#### Property Value

#### Type Description

[string](#)

#### TseSecurity

Security byte of tse status

#### Declaration

```
byte TseSecurity { get; }
```

#### Property Value

#### Type Description

[byte](#)

#### TseSecurityCtssInterfaceActive

Returns whether the ctss interface is active.

#### Declaration

```
bool TseSecurityCtssInterfaceActive { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### TseSecuritySelfTestPassed

Returns whether the last self test was passed.

#### Declaration

```
bool TseSecuritySelfTestPassed { get; }
```

#### Property Value

#### Type Description

[bool](#)

## Type Description

### TseSecurityValidTimeSet

Returns whether the time is set.

#### Declaration

```
bool TseSecurityValidTimeSet { get; }
```

#### Property Value

## Type Description

[bool](#)

### TseSerial

Raw SHA-256 hash over the public key that belongs to the private key generating signatures. This can be used as TSE unique ID.

#### Declaration

```
string TseSerial { get; }
```

#### Property Value

## Type Description

[string](#)

### TseSoftwareVersion

Returns the software version of the tse.

#### Declaration

```
Version TseSoftwareVersion { get; }
```

#### Property Value

## Type Description

[Version](#)

### TseTsecurityExportAllowedIfCspTestFails

Returns whether the export is allowed (if csp test failed).

#### Declaration

```
bool TseTsecurityExportAllowedIfCspTestFails { get; }
```

#### Property Value

## Type Description

[bool](#)

# Class SwissbitStatus

Represents the status of the swissbit tse.

## Inheritance

[object](#)

[ByteArrayConverterBase](#)

SwissbitStatus

[SwissbitHardwareDevice](#)

## Implements

[ISwissbitStatus](#)

## Inherited Members

[ByteArrayConverterBase.ByteArray](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ulong, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(uint, bool\)](#)

[ByteArrayConverterBase.GetByteArrayFromNumber\(ushort, bool\)](#)

[ByteArrayConverterBase.DecodeAscii\(byte\[\]\)](#)

[ByteArrayConverterBase.GetLongFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetIntFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetShortFromByteArray\(int, bool\)](#)

[ByteArrayConverterBase.GetBytesUntilZero\(byte\[\]\)](#)

[ByteArrayConverterBase.DecodeAscii\(int, int\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Status](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SwissbitStatus : ByteArrayConverterBase, ISwissbitStatus
```

## Constructors

**SwissbitStatus(byte[])**

### Declaration

```
public SwissbitStatus(byte[] statusBytes)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte[]</a>	statusBytes	
------------------------	-------------	--

## Properties

### CertificateExpirationDate

Timestamp (as seconds since Unix Epoch) after which the certificate of this TSE will be invalid. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. Big Endian.

### Declaration

```
public ulong CertificateExpirationDate { get; }
```

**Property Value**

**Type Description**

[ulong](#)

**CertificateExpirationDateTimeOffset**

Timestamp (as DateTimeOffset) after which the certificate of this TSE will be invalid. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported. Big Endian.

**Declaration**

```
public DateTimeOffset CertificateExpirationDateTimeOffset { get; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">DateTimeOffset</a>	
--------------------------------	--

**CreatedSignatures**

Amount of signatures that have been created with this TSE. Please note that this value might exceed Max Signatures, since Max Signatures is only a soft-cap and it might be possible to actually create more signatures. Big Endian.

**Declaration**

```
public uint CreatedSignatures { get; }
```

**Property Value**

**Type Description**

[uint](#)

**CspKeyReference**

The csp key reference for swissbit cloud tse.

**Declaration**

```
public string CspKeyReference { get; }
```

**Property Value**

**Type Description**

[string](#)

**DataImportInitialized**

False is not data import is initialized; true if a data import is initialized.

**Declaration**

```
public bool DataImportInitialized { get; }
```

**Property Value**

**Type Description**

[bool](#)

**FirmwareId**

If Firmware Type is "TST", then this contains an internal id that identifies the test build. Otherwise, this field is set to 0.

### Declaration

```
public uint FirmwareId { get; }
```

### Property Value

### Type Description

[uint](#)

### FirmwareType

Either “RLS” for production ready FW, “DEV” for development FW that can be used by ECR vendors, or “TST” for internal test revisions. The string is null-terminated, i.e.the last byte is set to 0.

### Declaration

```
public string FirmwareType { get; }
```

### Property Value

### Type Description

[string](#)

### InitialAdminPinChanged

True if the initial admin pin (from factory) was changed; otherwise false.

### Declaration

```
public bool InitialAdminPinChanged { get; }
```

### Property Value

### Type Description

[bool](#)

### InitialPukChanged

True if the initial puk (from factory) was changed; otherwise false.

### Declaration

```
public bool InitialPukChanged { get; }
```

### Property Value

### Type Description

[bool](#)

### InitialTimeAdminPinChanged

True if the initial time admin pin (from factory) was changed; otherwise false.

### Declaration

```
public bool InitialTimeAdminPinChanged { get; }
```

### Property Value

### Type Description

[bool](#)

### LastHeaderBlockIndex



Sector offset of last TSE entry. This allows to read the TSE Store starting from the end. Only valid if the TSE Store is readable(see Section 3.3), otherwise 0. Big Endian.

#### Declaration

```
public uint LastHeaderBlockIndex { get; }
```

#### Property Value

#### Type Description

[uint](#)

### MaxRegisteredClients

Maximum number of clients that can be registered. In the current revision, this is 100. Big Endian.

#### Declaration

```
public uint MaxRegisteredClients { get; }
```

#### Property Value

#### Type Description

[uint](#)

### MaxSignatures

Maximum amount of signatures that can be created with this TSE. Big Endian.

#### Declaration

```
public uint MaxSignatures { get; }
```

#### Property Value

#### Type Description

[uint](#)

### MaxStartedTransactions

Maximum number of started transactions, i.e. amount of transactions that can be started in parallel. In the current revision, this is 512. Big Endian.

#### Declaration

```
public uint MaxStartedTransactions { get; }
```

#### Property Value

#### Type Description

[uint](#)

### MaxTimeSynchronizationDelay

Interval (in seconds) after which command Update Time must be sent. Big endian.

#### Declaration

```
public uint MaxTimeSynchronizationDelay { get; }
```

#### Property Value

#### Type Description

[uint](#)

## Type Description

### MaxUpdateDelay

Interval (in seconds) after which a started transaction must have received an update in case new data is available on the cash register. This is currently set to 45 seconds according to MAX\_UPDATE\_DELAY from [BSI - TR - 03116 - 5]. Big endian.

#### Declaration

```
public uint MaxUpdateDelay { get; }
```

#### Property Value

## Type Description

[uint](#)

### RegisteredClients

Number of currently registered clients (see Section 4.2.2). Big Endian.

#### Declaration

```
public uint RegisteredClients { get; }
```

#### Property Value

## Type Description

[uint](#)

### StartedTransactions

Number of transactions that have not been finished, yet. If this equals Max Started Transactions, no new transactions can be started until at least one transaction has been finished. Only valid if the TSE Store is readable (see Section 3.3), otherwise 0. Big Endian.

#### Declaration

```
public uint StartedTransactions { get; }
```

#### Property Value

## Type Description

[uint](#)

### TimeUntilNextSelftest

Timeout in seconds after which the state selfTestRun will automatically be made inactive. Please see Section 4.2.1 for details.

#### Declaration

```
public uint TimeUntilNextSelftest { get; }
```

#### Property Value

## Type Description

[uint](#)

### TseCapacity

Size of TSE Store in sectors. Big endian.

#### Declaration

```
public uint TseCapacity { get; }
```

**Property Value**

#### **Type Description**

[uint](#)

#### **TseCurrentSize**

Used size of TSE Store. Only valid if the TSE Store is readable(see Section 3.3), otherwise 0. Big endian.

**Declaration**

```
public uint TseCurrentSize { get; }
```

**Property Value**

#### **Type Description**

[uint](#)

#### **TseDescription**

NULL terminated ASCII string containing a short description of the TSE.

**Declaration**

```
public string TseDescription { get; }
```

**Property Value**

#### **Type Description**

[string](#)

#### **TseExportSize**

Size of the whole TSE Store in bytes, if exported (see Section 3.4). Only valid if the TSE Store is readable(see Section 3.3), otherwise 0. Big Endian.

**Declaration**

```
public ulong TseExportSize { get; }
```

**Property Value**

#### **Type Description**

[ulong](#)

#### **TseFormFactor**

Either “uSD”, “SD”, or “USB” as null-terminated string. The remaining bytes are filled with zeros.

**Declaration**

```
public string TseFormFactor { get; }
```

**Property Value**

#### **Type Description**

[string](#)

#### **TseHardwareVersion**

Returns the hardware version of the tse.

#### Declaration

```
public Version TseHardwareVersion { get; }
```

#### Property Value

##### Type Description

[Version](#)

#### TseInitializationState

0: Uninitialized, 1: Initialized, 2: Decommissioned

#### Declaration

```
public TseInitializationState TseInitializationState { get; }
```

#### Property Value

##### Type Description

[TseInitializationState](#)

#### TsePublicKey

Public key that belongs to the private key generating signatures, formatted according to[BSI - TR - 03111] 3.2.1 Uncompressed Encoding.Bytes after TSE Public Key Length are filled with 0x0 and can be discarded. This key can be used to verify all signatures created by the TSE.

#### Declaration

```
public byte[] TsePublicKey { get; }
```

#### Property Value

##### Type Description

[byte\[\]](#)

#### TsePublicKeyLength

Usable length of TSE Public Key. Maximum length is 100 Bytes.

#### Declaration

```
public ushort TsePublicKeyLength { get; }
```

#### Property Value

##### Type Description

[ushort](#)

#### TsePublicKeyString

Public key that belongs to the private key generating signatures, formatted according to[BSI - TR - 03111] 3.2.1 Uncompressed Encoding.Bytes after TSE Public Key Length are filled with 0x0 and can be discarded. This key can be used to verify all signatures created by the TSE.

#### Declaration

```
public string TsePublicKeyString { get; }
```

#### Property Value

##### Type Description

## Type Description

[string](#)

## TseSecurity

Security byte of tse status

### Declaration

```
public byte TseSecurity { get; }
```

### Property Value

## Type Description

[byte](#)

## TseSecurityCtssInterfaceActive

Returns whether the ctss interface is active.

### Declaration

```
public bool TseSecurityCtssInterfaceActive { get; }
```

### Property Value

## Type Description

[bool](#)

## TseSecuritySelfTestPassed

Returns whether the last self test was passed.

### Declaration

```
public bool TseSecuritySelfTestPassed { get; }
```

### Property Value

## Type Description

[bool](#)

## TseSecurityValidTimeSet

Returns whether the time is set.

### Declaration

```
public bool TseSecurityValidTimeSet { get; }
```

### Property Value

## Type Description

[bool](#)

## TseSerial

Raw SHA-256 hash over the public key that belongs to the private key generating signatures. This can be used as TSE unique ID.

### Declaration

```
public string TseSerial { get; }
```

**Property Value**

### **Type Description**

[string](#)

### **TseSoftwareVersion**

Returns the software version of the tse.

### **Declaration**

```
public Version TseSoftwareVersion { get; }
```

**Property Value**

### **Type Description**

[Version](#)

### **TseTsecurityExportAllowedIfCspTestFails**

Returns whether the export is allowed (if csp test failed).

### **Declaration**

```
public bool TseTsecurityExportAllowedIfCspTestFails { get; }
```

**Property Value**

### **Type Description**

[bool](#)

## **Methods**

### **ToString()**

Returns a string that represents the current object.

### **Declaration**

```
public override string ToString()
```

### **Returns**

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the current object.
------------------------	--

### **Overrides**

[object.ToString\(\)](#)

## **Implements**

[ISwissbitStatus](#)

# Enum TseInitializationState

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Swissbit.Status](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TseInitializationState
```

## Fields

Name	Description
Decommissioned	
Initialized	
Uninitialized	

# Namespace RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud

## Classes

[AccessTokenModel](#)

[ListClientResponse](#)

[ListTransactionsResponse](#)

[TransactionResponse](#)

[TssDetails](#)

## Enums

[AuthenticationMethod](#)



# Class AccessTokenModel

## Inheritance

[object](#)

AccessTokenModel

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AccessTokenModel
```

## Properties

### AccessToken

#### Declaration

```
[JsonProperty("access_token")]  
public string AccessToken { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CreateTime

#### Declaration

```
public DateTime CreateTime { get; }
```

#### Property Value

### Type Description

[DateTime](#)

### Expired

#### Declaration

```
public bool Expired { get; }
```

#### Property Value

### Type Description

[bool](#)

### ExpiresIn

#### Declaration

```
[JsonProperty("expires_in")]  
public int ExpiresIn { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

**Jti**

**Declaration**

```
public string Jti { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

**Scope**

**Declaration**

```
public string Scope { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

**TokenType**

**Declaration**

```
[JsonProperty("token_type")]  
public string TokenType { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

# Enum AuthenticationMethod

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum AuthenticationMethod
```

## Fields

Name	Description
------	-------------

Basic	
-------	--

Oauth	
-------	--

# Class ListClientResponse

## Inheritance

[object](#)

ListClientResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ListClientResponse
```

## Properties

### ClientId

#### Declaration

```
public string ClientId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ClientState

#### Declaration

```
public string ClientState { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### lastStateChange

#### Declaration

```
public DateTime lastStateChange { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

# Class ListTransactionsResponse

## Inheritance

[object](#)

ListTransactionsResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ListTransactionsResponse
```

## Properties

### ClientId

#### Declaration

```
public string ClientId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ExternalTransactionId

#### Declaration

```
public string ExternalTransactionId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### LogTime

#### Declaration

```
public DateTime LogTime { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### State

#### Declaration

```
public string State { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**TransactionNumber**

**Declaration**

```
public long TransactionNumber { get; set; }
```

**Property Value**

**Type Description**

[long](#)

# Class TransactionResponse

## Inheritance

[object](#)

TransactionResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TransactionResponse
```

## Properties

### LogTime

#### Declaration

```
public DateTime LogTime { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### SerialNumber

#### Declaration

```
public string SerialNumber { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### SignatureCounter

#### Declaration

```
public long SignatureCounter { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">long</a>	
----------------------	--

### SignatureValue

#### Declaration

```
public string SignatureValue { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**TransactionNumber**

**Declaration**

```
public long TransactionNumber { get; set; }
```

**Property Value**

**Type Description**

[long](#)



# Class TssDetails

## Inheritance

[object](#)  
TssDetails

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.SwissbitCloud](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TssDetails
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Encoding

#### Declaration

```
public string Encoding { get; set; }
```

#### Property Value

### Type Description

[string](#)

### LeafCertificate

#### Declaration

```
public string LeafCertificate { get; set; }
```

#### Property Value

### Type Description

[string](#)

### PublicKey

#### Declaration

```
public string PublicKey { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Serial**

**Declaration**

```
public string Serial { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**SerialNumberHex**

**Declaration**

```
public string SerialNumberHex { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**TimeFormat**

**Declaration**

```
public string TimeFormat { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Namespace RetailForce.Fiscalisation.Implementation.Hungary

## Classes

### [ClientConfiguration](#)

The Hungarian country specific configuration for the client.

### [FiscalResponseHungary](#)

Fiscal response for Hungary.

### [HungarianFiscalProperties](#)

Properties for Hungary.

### [HungarianFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for austrian fiscalisation.

### [HungarianValidation](#)

Static validation class for hungary.

### [TrustedFiscalModuleHungary](#)

Country module implementation for Hungary.

# Class ClientConfiguration

The Hungarian country specific configuration for the client.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## WebServiceUrl

The url of the bbox web service.

### Declaration

```
public string WebServiceUrl { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

### RemoveSensitiveData()

Removes sensitive data from the configuration.

**Declaration**

```
public void RemoveSensitiveData()
```

**Remarks**

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

**Implements**

[IFiscalImplementationConfiguration](#)

# Class FiscalResponseHungary

Fiscal response for Hungary.

## Inheritance

[object](#)

FiscalResponseHungary

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiscalResponseHungary
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

### GetFiscalResponseHungary(int, string, List<DocumentTaxPosition>, long, string, string, string, string)

Returns the fiscal response for croatia out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseHungary(int fiscalisationDocumentNumber, string fiscalDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentSta:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">string</a>	fiscalDocumentNumber	The fiscalisation document number as string.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific)
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for croatia.

# Class HungarianFiscalProperties

Properties for Hungary.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>](#)

[HungarianFiscalProperties](#)

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class HungarianFiscalProperties : FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AmountDecimalPlaces

Returns the number of allowed decimal places for each amount (price, values, tax values, etc.).

#### Declaration

```
public override int AmountDecimalPlaces { get; }
```

#### Property Value

#### Type Description

[int](#)

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.AuditLogMandatory](#)



## CountryModuleVersion

Returns the version of the country module.

### Declaration

```
public override Version CountryModuleVersion { get; }
```

### Property Value

#### Type Description

[Version](#)

### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

#### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## DocumentTypeBusinessTransactionTypeSupport

Returns a dictionary for information which document type supports which business transaction type.

### Declaration

```
public override Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>> DocumentTypeBusinessTransactionTypeSupport { get; }
```

### Property Value

#### Type

#### Description

[Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>>](#)

### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

### Remarks

If document type is set, but business transaction type dictionary is null -> all business transaction types are allowed. If document type is not found, all business transaction types are allowed. If document type and business transaction type is found, value must be true to be supported.

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

#### Type Description

[FiscalCountry](#)

### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

#### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

#### FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

#### Declaration

```
public override bool FiscalLineInterface { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.FiscalLineInterface](#)

#### GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

#### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### Remarks

Return empty string if there is not cloud

#### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

#### Property Value

#### Type Description

[int](#)

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

#### MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

Declaration

```
public override bool MustSendClosingPerDay { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPayOutTypes

Returns a list of all not supported pay out types.

Declaration

```
public override List<PayOutType> NotSupportedPayOutTypes { get; }
```

Property Value

Type	Description
------	-------------

Type	Description
<a href="#">List&lt;PayOutType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

#### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of FiscalResponse) has to be printed out on the receipt or not.

#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

#### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

#### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPayOutTypes

Returns a list of all supported pay out types.

#### Declaration

```
public override List<PayOutType> SupportedPayOutTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;PayOutType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

### SupportedPaymentTypes

Returns a list of all supported payment types.

Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

### SupportedVatDefinitions

Returns the supported vat definitions for this country.

Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

Declaration

```
public override bool SurchargesPossible { get; }
```

Property Value

Type	Description
<a href="#">bool</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

Type	Description
<a href="#">Vat</a>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
public override bool TrainingModeAllowed { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class HungarianFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for austrian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
HungarianFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)



[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Hungary](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class HungarianFiscalisationRequiredAttribute : RequiredAttribute
```

# Class HungarianValidation

Static validation class for hungary.

## Inheritance

[object](#)

HungarianValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class HungarianValidation
```

## Fields

### BarcodeTypeDictionary

Supported barcode types mapping

#### Declaration

```
public static readonly ReadOnlyDictionary<BarcodeType, barcodeTypes> BarcodeTypeDictionary
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;BarcodeType, barcodeTypes&gt;</a>	

### DocumentTypeDictionary

#### Declaration

```
public static Dictionary<DocumentType, documentType> DocumentTypeDictionary
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;DocumentType, documentType&gt;</a>	

### PaymentOtherNameDictionary

#### Declaration

```
public static Dictionary<PaymentType, string> PaymentOtherNameDictionary
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;PaymentType, string&gt;</a>	

## PaymentTypeDictionary

### Declaration

```
public static Dictionary<PaymentType, paymentType> PaymentTypeDictionary
```

### Field Value

Type	Description
<a href="#">Dictionary&lt;PaymentType, paymentType&gt;</a>	

## SupportedVatDefinitions

### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### GetMiddlewareAmount(decimal)

#### Declaration

```
public static double GetMiddlewareAmount(this decimal amount)
```

#### Parameters

Type	Name	Description
<a href="#">decimal</a>	amount	

#### Returns

Type	Description
<a href="#">double</a>	

### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

# Class TrustedFiscalModuleHungary

Country module implementation for Hungary.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>](#)  
[TrustedFiscalModuleHungary](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleHungary : TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>, I
```

## Constructors

**TrustedFiscalModuleHungary(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleHungary(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, C
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Properties

## FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CancelDocument\(Document\)](#)

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

#### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.CreateDocument\(DocumentType\)](#)

### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DecommissionClient\(Document\)](#)

#### DisableUsbMode()

Disables USB mode for printer.

#### Declaration

```
public void DisableUsbMode()
```

#### Remarks

Following button must be added to ui: AEE USB MÓD KI

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if no response or response with an error code was returned.

#### DisplayText(string, string)

Displays a text on a customer display (only if attached and fiscal customer display)

#### Declaration

```
public override void DisplayText(string line1, string line2)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	line1	The first line to display.
<a href="#">string</a>	line2	The second line to display.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.DisplayText\(string, string\)](#)

#### EnableUsbMode()

Enables USB mode for printer.

#### Declaration

```
public void EnableUsbMode()
```

#### Remarks

Following button must be added to ui: AEE USB MÓD BE

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if no response or response with an error code was returned.

#### GetClosingNecessary(out DateTimeOffset?, DateTimeOffset?)

Returns null if not implemented; if implemented it returns if closing is necessary (true); otherwise false.

#### Declaration

```
public override bool? GetClosingNecessary(out DateTimeOffset? lastClosingDateInterval, DateTimeOffset? checkTime = null)
```

#### Parameters

Type	Name	Description
<a href="#">DateTimeOffset?</a>	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.
<a href="#">DateTimeOffset?</a>	checkTime	The time when the check should be performed.

#### Returns

Type	Description
------	-------------

[bool?](#) Null if not implemented; if implemented it returns if closing is necessary (true); otherwise false.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)

**GetDayOpened()**

Returns whether a day is already opened at the printer or not.

Declaration

```
public bool? GetDayOpened()
```

Returns

Type	Description
------	-------------

[bool?](#) True if day is opened; False if not; null if empty response.

**GetLastClosingNumber()**

Returns the last closing number for the current connected printer.

Declaration

```
public int GetLastClosingNumber()
```

Returns

Type	Description
------	-------------

[int](#) An integer value representing the last closing number for the connected printer.

**GetUniqueCashRegisterId()**

Returns the unique cash register id (storenumber/terminalnumber).

Declaration

```
public override string GetUniqueCashRegisterId()
```

Returns

Type	Description
------	-------------

[string](#) The unique cash register id (storenumber/terminalnumber).

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

**InitializeClient(Document)**

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

Parameters

Type	Name	Description
------	------	-------------

[Document](#) startDocument A document of type [NullReceipt](#) representing the starting document of the fiscalisation.

Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.InitializeClient\(Document\)](#)

**MigrateClient(string, string, string, string, string, string)**

Migrates a client from different fiscal system

Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

Parameters

Type	Name	Description
------	------	-------------

[string](#) serviceUrl The service url of the other fiscal system.

[string](#) param1 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

[string](#) param2 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
public override void OpenDrawer(User user)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.OpenDrawer\(User\)](#)

#### PingTaxAuthorityServer()

Ping used to ping the Tax authority server.

#### Declaration



```
public void PingTaxAuthorityServer()
```

#### Remarks

Following button must be added to ui: PING NAV SZERVER

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if no response or response with an error code was returned.

#### PrintDocumentList(int)

Prints document list of given fiscal day.

#### Declaration

```
public void PrintDocumentList(int fiscalDay)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDay	The fiscal day to print the document list.

#### Remarks

Following button must be added to ui: Bizonylat-összesítő nyomtatása

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if no response or response with an error code was returned.

#### ReprintDocument(Document, string)

Stores a document reprint to the fiscal interface.

#### Declaration

```
public override FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.
<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.ReprintDocument\(Document, string\)](#)

#### Remarks

Not necessary in all countries. See [MustRecordDocumentReprint](#) if it must be sent. If not necessary or if fiscal system is not responding with [FiscalResponse](#) null is returned.

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary

## Classes

[AdeleServiceClient](#)

[BlockSystemRequest](#)

[BlockSystemResponse](#)

[CashReport2Request](#)

[CashReport2Response](#)

[CashReportRequest](#)

[CashReportResponse](#)

[CloseFiscalDayRequest](#)

[CloseFiscalDayResponse](#)

[CloseServiceModeRequest](#)

[CloseServiceModeResponse](#)

[ContinueOfAeeOperationRequest](#)

[ContinueOfAeeOperationResponse](#)

[CustomerDisplayShowitemRequest](#)

[CustomerDisplayShowitemResponse](#)

[DeletePendingDocumentsRequest](#)

[DeletePendingDocumentsResponse](#)

[DirectCommandRequest](#)

[DirectCommandResponse](#)

[DirectIORequest](#)

[DirectIOResponse](#)

[DisableUSBRequest](#)

[DisableUSBResponse](#)

[DocumentContainer](#)

[DocumentRequest](#)

[DocumentResponse](#)

[DownloadElectronicJornalRequest](#)

[DownloadElectronicJornalResponse](#)

[EnableUSBRequest](#)

[EnableUSBResponse](#)

EndOfAeeOperationRequest

EndOfAeeOperationResponse

FreeLine

GetAdeleInfoRequest

GetAdeleInfoResponse

GetClosureDataRequest

GetClosureDataResponse

GetCustomerByTaxIdRequest

GetCustomerByTaxIdResponse

GetDailyDocumentsRequest

GetDailyDocumentsResponse

GetDocumentInfoRequest

GetDocumentInfoResponse

GetIdenDataRequest

GetIdenDataResponse

GetLedStateRequest

GetLedStateResponse

GetMiddlewareParameterRequest

GetMiddlewareParameterResponse

GetServiceTokenRequest

GetServiceTokenResponse

Item

LightCOMmandRequest

LightCOMmandResponse

LoginCashierRequest

LoginCashierResponse

OpenDrawerRequest

OpenDrawerResponse

PersonalizationRequest

PersonalizationResponse

PingRequest

PingResponse

PrintAEEInfoRequest

PrintAEEInfoResponse

PrintDocumentListRequest

PrintDocumentListResponse

PrintFiscalMemoryListRequest

PrintFiscalMemoryListResponse

PrintFiscalMemoryListbyZRequest

PrintFiscalMemoryListbyZResponse

PrintMonthlyServiceChargeReportRequest

PrintMonthlyServiceChargeReportResponse

PrintReceiptCopyRequest

PrintReceiptCopyResponse

RequestFirmwareRequest

RequestFirmwareResponse

RestartAEERequest

RestartAEEResponse

SetUUCRequest

SetUUCResponse

StartComlogRequest

StartComlogResponse

StartServiceModeRequest

StartServiceModeResponse

UnblockSystemRequest

UnblockSystemResponse

WriteCustomerDisplayRequest

WriteCustomerDisplayResponse

adeleError

adeleInfo

aeLedAnswer

customer

documentAnswer

drawerItem

[getDrawerContentRequest](#)

[getDrawerContentResponse](#)

[getModemDetailsRequest](#)

[getModemDetailsResponse](#)

[healthFundData](#)

[identityData](#)

[itemRow](#)

[modemDetails](#)

[payment](#)

[zData](#)

## **Interfaces**

[AdeleService](#)

[AdeleServiceChannel](#)

## **Enums**

[AdeleServiceClient.EndpointConfiguration](#)

[aceLedState](#)

[assignType](#)

[barcodeAlignments](#)

[barcodeHRIPositions](#)

[barcodeTypes](#)

[documentType](#)

[errorType](#)

[euroMode](#)

[freeLineAlignment](#)

[freeLineFormat](#)

[freeLineTypes](#)

[itemTypes](#)

[paymentType](#)

# Interface AdeleService

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[ServiceContract (Namespace = "http://service.adelehu.bbox.hu/", ConfigurationName = "AdeleServiceHungary.AdeleService")]  
public interface AdeleService
```

## Methods

### BlockSystemAsync(BlockSystemRequest)

#### Declaration

```
[OperationContract (Action = "http://service.adelehu.bbox.hu/AdeleService/BlockSystemRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/BlockSystemResponse")]  
[XmlSerializerFormat (SupportFaults = true)]  
Task<BlockSystemResponse> BlockSystemAsync (BlockSystemRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">BlockSystemRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;BlockSystemResponse&gt;</a>	

### CashReport2Async(CashReport2Request)

#### Declaration

```
[OperationContract (Action = "http://service.adelehu.bbox.hu/AdeleService/CashReport2Request", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/CashReport2Response")]  
[XmlSerializerFormat (SupportFaults = true)]  
Task<CashReport2Response> CashReport2Async (CashReport2Request request)
```

#### Parameters

Type	Name	Description
<a href="#">CashReport2Request</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;CashReport2Response&gt;</a>	

### CashReportAsync(CashReportRequest)

#### Declaration

```
[OperationContract (Action = "http://service.adelehu.bbox.hu/AdeleService/CashReportRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/CashReportResponse")]  
[XmlSerializerFormat (SupportFaults = true)]  
Task<CashReportResponse> CashReportAsync (CashReportRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">CashReportRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;CashReportResponse&gt;</a>	

### CloseFiscalDayAsync(CloseFiscalDayRequest)

#### Declaration

```
[OperationContract (Action = "http://service.adelehu.bbox.hu/AdeleService/CloseFiscalDayRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/CloseFiscalDayResponse")]  
[XmlSerializerFormat (SupportFaults = true)]  
Task<CloseFiscalDayResponse> CloseFiscalDayAsync (CloseFiscalDayRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">CloseFiscalDayRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;CloseFiscalDayResponse&gt;</a>	

### CloseServiceModeAsync(CloseServiceModeRequest)

#### Declaration

```
[OperationContract (Action = "http://service.adelehu.bbox.hu/AdeleService/CloseServiceModeRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/CloseServiceModeResponse")]  
[XmlSerializerFormat (SupportFaults = true)]  
Task<CloseServiceModeResponse> CloseServiceModeAsync (CloseServiceModeRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">CloseServiceModeRequest</a>	request	

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

[Task<CloseServiceModeResponse>](#)

### ContinueOfAeeOperationAsync(ContinueOfAeeOperationRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/ContinueOfAeeOperationRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/ContinueOfAeeOq")
[XmlSerializerFormat(SupportFaults = true)]
Task<ContinueOfAeeOperationResponse> ContinueOfAeeOperationAsync(ContinueOfAeeOperationRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">ContinueOfAeeOperationRequest</a>	request	

#### Returns

Type	Description
------	-------------

[Task<ContinueOfAeeOperationResponse>](#)

### CustomerDisplayShowitemAsync(CustomerDisplayShowitemRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/CustomerDisplayShowitemRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/CustomerDispli")
[XmlSerializerFormat(SupportFaults = true)]
Task<CustomerDisplayShowitemResponse> CustomerDisplayShowitemAsync(CustomerDisplayShowitemRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">CustomerDisplayShowitemRequest</a>	request	

#### Returns

Type	Description
------	-------------

[Task<CustomerDisplayShowitemResponse>](#)

### DeletePendingDocumentsAsync>DeletePendingDocumentsRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/DeletePendingDocumentsRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/DeletePendingD")
[XmlSerializerFormat(SupportFaults = true)]
Task<DeletePendingDocumentsResponse> DeletePendingDocumentsAsync>DeletePendingDocumentsRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">DeletePendingDocumentsRequest</a>	request	

#### Returns

Type	Description
------	-------------

[Task<DeletePendingDocumentsResponse>](#)

### DirectCommandAsync(DirectCommandRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/DirectCommandRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/DirectCommandResponse")
[XmlSerializerFormat(SupportFaults = true)]
Task<DirectCommandResponse> DirectCommandAsync(DirectCommandRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">DirectCommandRequest</a>	request	

#### Returns

Type	Description
------	-------------

[Task<DirectCommandResponse>](#)

### DirectIOAsync(DirectIORequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/DirectIORequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/DirectIOResponse")
[XmlSerializerFormat(SupportFaults = true)]
Task<DirectIOResponse> DirectIOAsync(DirectIORequest request)
```

#### Parameters

Type	Name	Description
<a href="#">DirectIORequest</a>	request	

#### Returns

Type	Description
------	-------------

[Task<DirectIOResponse>](#)

### DisableUSBAsync(DisableUSBRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/DisableUSBRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/DisableUSBResponse")
[XmlSerializerFormat(SupportFaults = true)]
Task<DisableUSBResponse> DisableUSBAsync(DisableUSBRequest request)
```



#### Parameters

Type	Name	Description
<a href="#">DisableUSBRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;DisableUSBResponse&gt;</a>	

#### DocumentAsync(DocumentRequest)

##### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/DocumentRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/DocumentResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<DocumentResponse> DocumentAsync(DocumentRequest request)
```

##### Parameters

Type	Name	Description
<a href="#">DocumentRequest</a>	request	

##### Returns

Type	Description
<a href="#">Task&lt;DocumentResponse&gt;</a>	

#### DownloadElectronicJornalAsync(DownloadElectronicJornalRequest)

##### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/DownloadElectronicJornalRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/DownloadEle")
[XmlSerializerFormat(SupportFaults = true)]
Task<DownloadElectronicJornalResponse> DownloadElectronicJornalAsync(DownloadElectronicJornalRequest request)
```

##### Parameters

Type	Name	Description
<a href="#">DownloadElectronicJornalRequest</a>	request	

##### Returns

Type	Description
<a href="#">Task&lt;DownloadElectronicJornalResponse&gt;</a>	

#### EnableUSBAsync(EnableUSBRequest)

##### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/EnableUSBRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/EnableUSBResponse")]
Task<EnableUSBResponse> EnableUSBAsync(EnableUSBRequest request)
```

##### Parameters

Type	Name	Description
<a href="#">EnableUSBRequest</a>	request	

##### Returns

Type	Description
<a href="#">Task&lt;EnableUSBResponse&gt;</a>	

#### EndOfAeeOperationAsync(EndOfAeeOperationRequest)

##### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/EndOfAeeOperationRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/EndOfAeeOperationRe")
[XmlSerializerFormat(SupportFaults = true)]
Task<EndOfAeeOperationResponse> EndOfAeeOperationAsync(EndOfAeeOperationRequest request)
```

##### Parameters

Type	Name	Description
<a href="#">EndOfAeeOperationRequest</a>	request	

##### Returns

Type	Description
<a href="#">Task&lt;EndOfAeeOperationResponse&gt;</a>	

#### GetAdeleInfoAsync(GetAdeleInfoRequest)

##### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetAdeleInfoRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetAdeleInfoResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<GetAdeleInfoResponse> GetAdeleInfoAsync(GetAdeleInfoRequest request)
```

##### Parameters

Type	Name	Description
<a href="#">GetAdeleInfoRequest</a>	request	

##### Returns

Type	Description
<a href="#">Task&lt;GetAdeleInfoResponse&gt;</a>	

## GetClosureDataAsync(GetClosureDataRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetClosureDataRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetClosureDataResponse")  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetClosureDataResponse> GetClosureDataAsync(GetClosureDataRequest request)
```

### Parameters

Type	Name	Description
<a href="#">GetClosureDataRequest</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetClosureDataResponse&gt;</a>	

## GetCustomerByTaxIdAsync(GetCustomerByTaxIdRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetCustomerByTaxIdRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetCustomerByTaxId")  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetCustomerByTaxIdResponse> GetCustomerByTaxIdAsync(GetCustomerByTaxIdRequest request)
```

### Parameters

Type	Name	Description
<a href="#">GetCustomerByTaxIdRequest</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetCustomerByTaxIdResponse&gt;</a>	

## GetDailyDocuments.Async(GetDailyDocumentsRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetDailyDocumentsRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetDailyDocumentsRe")  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetDailyDocumentsResponse> GetDailyDocumentsAsync(GetDailyDocumentsRequest request)
```

### Parameters

Type	Name	Description
<a href="#">GetDailyDocumentsRequest</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetDailyDocumentsResponse&gt;</a>	

## GetDocumentInfoAsync(GetDocumentInfoRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetDocumentInfoRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetDocumentInfoRespon")  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetDocumentInfoResponse> GetDocumentInfoAsync(GetDocumentInfoRequest request)
```

### Parameters

Type	Name	Description
<a href="#">GetDocumentInfoRequest</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetDocumentInfoResponse&gt;</a>	

## GetIdenDataAsync(GetIdenDataRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetIdenDataRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetIdenDataResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetIdenDataResponse> GetIdenDataAsync(GetIdenDataRequest request)
```

### Parameters

Type	Name	Description
<a href="#">GetIdenDataRequest</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetIdenDataResponse&gt;</a>	

## GetLedState.Async(GetLedStateRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetLedStateRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetLedStateResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetLedStateResponse> GetLedStateAsync(GetLedStateRequest request)
```

### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">GetLedStateRequest</a>	request	

Returns

Type	Description
<a href="#">Task&lt;GetLedStateResponse&gt;</a>	

#### GetMiddlewareParameterAsync(GetMiddlewareParameterRequest)

Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetMiddlewareParameterRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetMiddlewareP
[XmlSerializerFormat(SupportFaults = true)]
Task<GetMiddlewareParameterResponse> GetMiddlewareParameterAsync(GetMiddlewareParameterRequest request)
```

Parameters

Type	Name	Description
<a href="#">GetMiddlewareParameterRequest</a>	request	

Returns

Type	Description
<a href="#">Task&lt;GetMiddlewareParameterResponse&gt;</a>	

#### GetServiceTokenAsync(GetServiceTokenRequest)

Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/GetServiceTokenRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/GetServiceTokenRespon
[XmlSerializerFormat(SupportFaults = true)]
Task<GetServiceTokenResponse> GetServiceTokenAsync(GetServiceTokenRequest request)
```

Parameters

Type	Name	Description
<a href="#">GetServiceTokenRequest</a>	request	

Returns

Type	Description
<a href="#">Task&lt;GetServiceTokenResponse&gt;</a>	

#### LightCOMmandAsync(LightCOMmandRequest)

Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/LightCOMmandRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/LightCOMmandResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<LightCOMmandResponse> LightCOMmandAsync(LightCOMmandRequest request)
```

Parameters

Type	Name	Description
<a href="#">LightCOMmandRequest</a>	request	

Returns

Type	Description
<a href="#">Task&lt;LightCOMmandResponse&gt;</a>	

#### LoginCashierAsync(LoginCashierRequest)

Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/LoginCashierRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/LoginCashierResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<LoginCashierResponse> LoginCashierAsync(LoginCashierRequest request)
```

Parameters

Type	Name	Description
<a href="#">LoginCashierRequest</a>	request	

Returns

Type	Description
<a href="#">Task&lt;LoginCashierResponse&gt;</a>	

#### OpenDrawerAsync(OpenDrawerRequest)

Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/OpenDrawerRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/OpenDrawerResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<OpenDrawerResponse> OpenDrawerAsync(OpenDrawerRequest request)
```

Parameters

Type	Name	Description
<a href="#">OpenDrawerRequest</a>	request	

Returns

Type	Description
<a href="#">Task&lt;OpenDrawerResponse&gt;</a>	

#### PersonalizationAsync(PersonalizationRequest)

## Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PersonalizationRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PersonalizationResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PersonalizationResponse> PersonalizationAsync(PersonalizationRequest request)
```

## Parameters

Type	Name	Description
<a href="#">PersonalizationRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PersonalizationResponse&gt;</a>	

## PingAsync(PingRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PingRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PingResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PingResponse> PingAsync(PingRequest request)
```

## Parameters

Type	Name	Description
<a href="#">PingRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PingResponse&gt;</a>	

## PrintAEEInfoAsync(PrintAEEInfoRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PrintAEEInfoRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PrintAEEInfoResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PrintAEEInfoResponse> PrintAEEInfoAsync(PrintAEEInfoRequest request)
```

## Parameters

Type	Name	Description
<a href="#">PrintAEEInfoRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PrintAEEInfoResponse&gt;</a>	

## PrintDocumentListAsync(PrintDocumentListRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PrintDocumentListRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PrintDocumentListResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PrintDocumentListResponse> PrintDocumentListAsync(PrintDocumentListRequest request)
```

## Parameters

Type	Name	Description
<a href="#">PrintDocumentListRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PrintDocumentListResponse&gt;</a>	

## PrintFiscalMemoryListAsync(PrintFiscalMemoryListRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PrintFiscalMemoryListRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PrintFiscalMemoryListResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PrintFiscalMemoryListResponse> PrintFiscalMemoryListAsync(PrintFiscalMemoryListRequest request)
```

## Parameters

Type	Name	Description
<a href="#">PrintFiscalMemoryListRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PrintFiscalMemoryListResponse&gt;</a>	

## PrintFiscalMemoryListbyZAsync(PrintFiscalMemoryListbyZRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PrintFiscalMemoryListbyZRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PrintFiscalMemoryListbyZResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PrintFiscalMemoryListbyZResponse> PrintFiscalMemoryListbyZAsync(PrintFiscalMemoryListbyZRequest request)
```

## Parameters

Type	Name	Description
<a href="#">PrintFiscalMemoryListbyZRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PrintFiscalMemoryListbyZResponse&gt;</a>	

## PrintMonthlyServiceChargeReportAsync(PrintMonthlyServiceChargeReportRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PrintMonthlyServiceChargeReportRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PrintMonthlyServiceChargeReportResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PrintMonthlyServiceChargeReportResponse> PrintMonthlyServiceChargeReportAsync(PrintMonthlyServiceChargeReportRequest request)
```

### Parameters

Type	Name	Description
<a href="#">PrintMonthlyServiceChargeReportRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PrintMonthlyServiceChargeReportResponse&gt;</a>	

## PrintReceiptCopyAsync(PrintReceiptCopyRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/PrintReceiptCopyRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/PrintReceiptCopyResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<PrintReceiptCopyResponse> PrintReceiptCopyAsync(PrintReceiptCopyRequest request)
```

### Parameters

Type	Name	Description
<a href="#">PrintReceiptCopyRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;PrintReceiptCopyResponse&gt;</a>	

## RequestFirmwareAsync(RequestFirmwareRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/RequestFirmwareRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/RequestFirmwareResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<RequestFirmwareResponse> RequestFirmwareAsync(RequestFirmwareRequest request)
```

### Parameters

Type	Name	Description
<a href="#">RequestFirmwareRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;RequestFirmwareResponse&gt;</a>	

## RestartAEEAsync(RestartAEERequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/RestartAEERequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/RestartAEEResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<RestartAEEResponse> RestartAEEAsync(RestartAEERequest request)
```

### Parameters

Type	Name	Description
<a href="#">RestartAEERequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;RestartAEEResponse&gt;</a>	

## SetUUCAsync(SetUUCRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/SetUUCRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/SetUUCResponse")]
[XmlSerializerFormat(SupportFaults = true)]
Task<SetUUCResponse> SetUUCAsync(SetUUCRequest request)
```

### Parameters

Type	Name	Description
<a href="#">SetUUCRequest</a>	request	

## Returns

Type	Description
<a href="#">Task&lt;SetUUCResponse&gt;</a>	

## StartComlogAsync(StartComlogRequest)

### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/StartComlogRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/StartComlogResponse")]
[XmlSerializerFormat(SupportFaults = true)]
```

Task<StartComLogResponse> StartComLogAsync(StartComLogRequest request)

#### Parameters

Type	Name	Description
<a href="#">StartComLogRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;StartComLogResponse&gt;</a>	

### StartServiceModeAsync(StartServiceModeRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/StartServiceModeRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/StartServiceModeResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<StartServiceModeResponse> StartServiceModeAsync(StartServiceModeRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">StartServiceModeRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;StartServiceModeResponse&gt;</a>	

### UnblockSystemAsync(UnblockSystemRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/UnblockSystemRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/UnblockSystemResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<UnblockSystemResponse> UnblockSystemAsync(UnblockSystemRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">UnblockSystemRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;UnblockSystemResponse&gt;</a>	

### WriteCustomerDisplayAsync(WriteCustomerDisplayRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/WriteCustomerDisplayRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/WriteCustomerDisplayResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<WriteCustomerDisplayResponse> WriteCustomerDisplayAsync(WriteCustomerDisplayRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">WriteCustomerDisplayRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;WriteCustomerDisplayResponse&gt;</a>	

### getDrawerContentAsync(getDrawerContentRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/getDrawerContentRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/getDrawerContentResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<getDrawerContentResponse> getDrawerContentAsync(getDrawerContentRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">getDrawerContentRequest</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;getDrawerContentResponse&gt;</a>	

### getModemDetailsAsync(getModemDetailsRequest)

#### Declaration

```
[OperationContract(Action = "http://service.adelehu.bbox.hu/AdeleService/getModemDetailsRequest", ReplyAction = "http://service.adelehu.bbox.hu/AdeleService/getModemDetailsResponse")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<getModemDetailsResponse> getModemDetailsAsync(getModemDetailsRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">getModemDetailsRequest</a>	request	

#### Returns

Type	Description
------	-------------

Type	Description
<a href="#">Task&lt;getModemDetailsResponse&gt;</a>	

# Interface AdeleServiceChannel

## Inherited Members

[AdeleService.WriteCustomerDisplayAsync\(WriteCustomerDisplayRequest\)](#)  
[AdeleService.GetMiddlewareParameterAsync\(GetMiddlewareParameterRequest\)](#)  
[AdeleService.PrintFiscalMemoryListbyZAsync\(PrintFiscalMemoryListbyZRequest\)](#)  
[AdeleService.PrintFiscalMemoryListAsync\(PrintFiscalMemoryListRequest\)](#)  
[AdeleService.DeletePendingDocumentsAsync\(DeletePendingDocumentsRequest\)](#)  
[AdeleService.GetDailyDocumentsAsync\(GetDailyDocumentsRequest\)](#)  
[AdeleService.SetUUCAsync\(SetUUCRequest\)](#)  
[AdeleService.DocumentAsync\(DocumentRequest\)](#)  
[AdeleService.GetAdeleInfoAsync\(GetAdeleInfoRequest\)](#)  
[AdeleService.CloseFiscalDayAsync\(CloseFiscalDayRequest\)](#)  
[AdeleService.GetClosureDataAsync\(GetClosureDataRequest\)](#)  
[AdeleService.LoginCashierAsync\(LoginCashierRequest\)](#)  
[AdeleService.PrintAEEInfoAsync\(PrintAEEInfoRequest\)](#)  
[AdeleService.StartComlogAsync\(StartComlogRequest\)](#)  
[AdeleService.RequestFirmwareAsync\(RequestFirmwareRequest\)](#)  
[AdeleService.EnableUSBAsync\(EnableUSBRequest\)](#)  
[AdeleService.DisableUSBAsync\(DisableUSBRequest\)](#)  
[AdeleService.getDrawerContentAsync\(getDrawerContentRequest\)](#)  
[AdeleService.PersonalizationAsync\(PersonalizationRequest\)](#)  
[AdeleService.PrintReceiptCopyAsync\(PrintReceiptCopyRequest\)](#)  
[AdeleService.RestartAEEAsync\(RestartAEERequest\)](#)  
[AdeleService.GetDocumentInfoAsync\(GetDocumentInfoRequest\)](#)  
[AdeleService.GetLedStateAsync\(GetLedStateRequest\)](#)  
[AdeleService.DownloadElectronicJournalAsync\(DownloadElectronicJournalRequest\)](#)  
[AdeleService.PrintMonthlyServiceChargeReportAsync\(PrintMonthlyServiceChargeReportRequest\)](#)  
[AdeleService.GetServiceTokenAsync\(GetServiceTokenRequest\)](#)  
[AdeleService.BlockSystemAsync\(BlockSystemRequest\)](#)  
[AdeleService.getModemDetailsAsync\(getModemDetailsRequest\)](#)  
[AdeleService.CloseServiceModeAsync\(CloseServiceModeRequest\)](#)  
[AdeleService.GetIdenDataAsync\(GetIdenDataRequest\)](#)  
[AdeleService.StartServiceModeAsync\(StartServiceModeRequest\)](#)  
[AdeleService.CashReportAsync\(CashReportRequest\)](#)  
[AdeleService.UnblockSystemAsync\(UnblockSystemRequest\)](#)  
[AdeleService.LightCOMmandAsync\(LightCOMmandRequest\)](#)  
[AdeleService.OpenDrawerAsync\(OpenDrawerRequest\)](#)  
[AdeleService.DirectCommandAsync\(DirectCommandRequest\)](#)  
[AdeleService.CashReport2Async\(CashReport2Request\)](#)  
[AdeleService.DirectIOAsync\(DirectIORequest\)](#)  
[AdeleService.PingAsync\(PingRequest\)](#)  
[AdeleService.PrintDocumentListAsync\(PrintDocumentListRequest\)](#)  
[AdeleService.CustomerDisplayShowitemAsync\(CustomerDisplayShowitemRequest\)](#)  
[AdeleService.EndOfAeeOperationAsync\(EndOfAeeOperationRequest\)](#)  
[AdeleService.ContinueOfAeeOperationAsync\(ContinueOfAeeOperationRequest\)](#)  
[AdeleService.GetCustomerByTaxIdAsync\(GetCustomerByTaxIdRequest\)](#)  
[IClientChannel.BeginDisplayInitializationUI\(AsyncCallback, object\)](#)  
[IClientChannel.DisplayInitializationUI\(\)](#)  
[IClientChannel.EndDisplayInitializationUI\(IAsyncResult\)](#)  
[IClientChannel.AllowInitializationUI](#)  
[IClientChannel.DidInteractiveInitialization](#)  
[IClientChannel.Via](#)  
[IClientChannel.UnknownMessageReceived](#)  
[IDisposable.Dispose\(\)](#)  
[IContextChannel.AllowOutputBatching](#)  
[IContextChannel.InputSession](#)  
[IContextChannel.LocalAddress](#)  
[IContextChannel.OperationTimeout](#)  
[IContextChannel.OutputSession](#)  
[IContextChannel.RemoteAddress](#)  
[IContextChannel.SessionId](#)  
[IChannel.GetProperty<T>\(\)](#)  
[ICommunicationObject.Abort\(\)](#)  
[ICommunicationObject.BeginClose\(AsyncCallback, object\)](#)  
[ICommunicationObject.BeginClose\(TimeSpan, AsyncCallback, object\)](#)  
[ICommunicationObject.BeginOpen\(AsyncCallback, object\)](#)  
[ICommunicationObject.BeginOpen\(TimeSpan, AsyncCallback, object\)](#)  
[ICommunicationObject.Close\(\)](#)  
[ICommunicationObject.Close\(TimeSpan\)](#)  
[ICommunicationObject.EndClose\(IAsyncResult\)](#)  
[ICommunicationObject.EndOpen\(IAsyncResult\)](#)  
[ICommunicationObject.Open\(\)](#)  
[ICommunicationObject.Open\(TimeSpan\)](#)  
[ICommunicationObject.State](#)  
[ICommunicationObject.Closed](#)  
[ICommunicationObject.Closing](#)  
[ICommunicationObject.Faulted](#)  
[ICommunicationObject.Opened](#)  
[ICommunicationObject.Opening](#)  
[IExtensibleObject<IContextChannel>.Extensions](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleService](#) Hungary

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public interface AdeleServiceChannel : AdeleService, IClientChannel, IDisposable, IContextChannel, IChannel, ICommunicationObject, IExtensibleObject<IContextChannel>
```



# Class AdeleServiceClient

## Inheritance

[object](#)  
[ClientBase<AdeleService>](#)  
AdeleServiceClient

## Implements

[IDisposable](#)  
[ICommunicationObject](#)  
[IAsyncDisposable](#)  
[AdeleService](#)

## Inherited Members

[ClientBase<AdeleService>.Abort\(\)](#)  
[ClientBase<AdeleService>.Close\(\)](#)  
[ClientBase<AdeleService>.Open\(\)](#)  
[ClientBase<AdeleService>.CreateChannel\(\)](#)  
[ClientBase<AdeleService>.GetDefaultValueForInitialization<T>\(\)](#)  
[ClientBase<AdeleService>.InvokeAsync\(ClientBase<AdeleService>.BeginOperationDelegate, object\[\], ClientBase<AdeleService>.EndOperationDelegate, SendOrPostCallback, object\)](#)  
[ClientBase<AdeleService>.Channel](#)  
[ClientBase<AdeleService>.CacheSetting](#)  
[ClientBase<AdeleService>.ChannelFactory](#)  
[ClientBase<AdeleService>.ClientCredentials](#)  
[ClientBase<AdeleService>.Endpoint](#)  
[ClientBase<AdeleService>.InnerChannel](#)  
[ClientBase<AdeleService>.State](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AdeleServiceClient : ClientBase<AdeleService>, IDisposable, ICommunicationObject, IAsyncDisposable, AdeleService
```

## Constructors

### AdeleServiceClient()

#### Declaration

```
public AdeleServiceClient()
```

### AdeleServiceClient(EndpointConfiguration)

#### Declaration

```
public AdeleServiceClient(AdeleServiceClient.EndpointConfiguration endpointConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">AdeleServiceClient.EndpointConfiguration</a>	endpointConfiguration	

### AdeleServiceClient(EndpointConfiguration, EndpointAddress)

#### Declaration

```
public AdeleServiceClient(AdeleServiceClient.EndpointConfiguration endpointConfiguration, EndpointAddress remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">AdeleServiceClient.EndpointConfiguration</a>	endpointConfiguration	
<a href="#">EndpointAddress</a>	remoteAddress	

### AdeleServiceClient(EndpointConfiguration, string)

#### Declaration

```
public AdeleServiceClient(AdeleServiceClient.EndpointConfiguration endpointConfiguration, string remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">AdeleServiceClient.EndpointConfiguration</a>	endpointConfiguration	
<a href="#">string</a>	remoteAddress	

### AdeleServiceClient(Binding, EndpointAddress)

#### Declaration

```
public AdeleServiceClient(Binding binding, EndpointAddress remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">Binding</a>	binding	
<a href="#">EndpointAddress</a>	remoteAddress	

## Methods

### BlockSystemAsync()

#### Declaration

```
public Task<BlockSystemResponse> BlockSystemAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;BlockSystemResponse&gt;</a>	

### CashReport2Async(FreeLine[], bool)

#### Declaration

```
public Task<CashReport2Response> CashReport2Async(FreeLine[] arg0, bool arg1)
```

#### Parameters

Type	Name	Description
<a href="#">FreeLine[]</a>	arg0	
<a href="#">bool</a>	arg1	

#### Returns

Type	Description
<a href="#">Task&lt;CashReport2Response&gt;</a>	

### CashReportAsync()

#### Declaration

```
public Task<CashReportResponse> CashReportAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;CashReportResponse&gt;</a>	

## CloseAsync()

### Declaration

```
public virtual Task CloseAsync()
```

### Returns

### Type Description

[Task](#)

## CloseFiscalDayAsync()

### Declaration

```
public Task<CloseFiscalDayResponse> CloseFiscalDayAsync()
```

### Returns

Type	Description
------	-------------

[Task<CloseFiscalDayResponse>](#)

## CloseServiceModeAsync()

### Declaration

```
public Task<CloseServiceModeResponse> CloseServiceModeAsync()
```

### Returns

Type	Description
------	-------------

[Task<CloseServiceModeResponse>](#)

## ContinueOfAeeOperationAsync(string)

### Declaration

```
public Task<ContinueOfAeeOperationResponse> ContinueOfAeeOperationAsync(string arg0)
```

### Parameters

Type	Name	Description
------	------	-------------

[string](#) arg0

### Returns

Type	Description
------	-------------

[Task<ContinueOfAeeOperationResponse>](#)

## CustomerDisplayShowitemAsync(itemRow)

### Declaration

```
public Task<CustomerDisplayShowitemResponse> CustomerDisplayShowitemAsync(itemRow arg0)
```

### Parameters

Type	Name	Description
------	------	-------------

[itemRow](#) arg0

### Returns

Type	Description
------	-------------

[Task<CustomerDisplayShowitemResponse>](#)

## DeletePendingDocumentsAsync()

### Declaration

```
public Task<DeletePendingDocumentsResponse> DeletePendingDocumentsAsync()
```

## Returns

Type	Description
<a href="#">Task&lt;DeletePendingDocumentsResponse&gt;</a>	

## DirectCommandAsync(string)

### Declaration

```
public Task<DirectCommandResponse> DirectCommandAsync (string arg0)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	arg0	
------------------------	------	--

## Returns

Type	Description
<a href="#">Task&lt;DirectCommandResponse&gt;</a>	

## DirectIOAsync(string)

### Declaration

```
public Task<DirectIOResponse> DirectIOAsync (string arg0)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	arg0	
------------------------	------	--

## Returns

Type	Description
<a href="#">Task&lt;DirectIOResponse&gt;</a>	

## DisableUSBAsync()

### Declaration

```
public Task<DisableUSBResponse> DisableUSBAsync ()
```

## Returns

Type	Description
<a href="#">Task&lt;DisableUSBResponse&gt;</a>	

## DocumentAsync(DocumentContainer)

### Declaration

```
public Task<DocumentResponse> DocumentAsync (DocumentContainer arg0)
```

### Parameters

Type	Name	Description
<a href="#">DocumentContainer</a>	arg0	

## Returns

Type	Description
<a href="#">Task&lt;DocumentResponse&gt;</a>	

## DownloadElectronicJornalAsync(int, string)

### Declaration

```
public Task<DownloadElectronicJornalResponse> DownloadElectronicJornalAsync (int arg0, string arg1)
```

## Parameters

### Type Name Description

[int](#) arg0

[string](#) arg1

## Returns

Type	Description
------	-------------

[Task<DownloadElectronicJorunalResponse>](#)

## EnableUSBAsync()

### Declaration

```
public Task<EnableUSBResponse> EnableUSBAsync()
```

## Returns

Type	Description
------	-------------

[Task<EnableUSBResponse>](#)

## EndOfAeeOperationAsync(string, string)

### Declaration

```
public Task<EndOfAeeOperationResponse> EndOfAeeOperationAsync(string arg0, string arg1)
```

## Parameters

### Type Name Description

[string](#) arg0

[string](#) arg1

## Returns

Type	Description
------	-------------

[Task<EndOfAeeOperationResponse>](#)

## GetAdeleInfoAsync()

### Declaration

```
public Task<GetAdeleInfoResponse> GetAdeleInfoAsync()
```

## Returns

Type	Description
------	-------------

[Task<GetAdeleInfoResponse>](#)

## GetClosureDataAsync(int)

### Declaration

```
public Task<GetClosureDataResponse> GetClosureDataAsync(int arg0)
```

## Parameters

### Type Name Description

[int](#) arg0

## Returns

Type	Description
------	-------------

[Task<GetClosureDataResponse>](#)

## GetCustomerByTaxIdAsync(string)

### Declaration

```
public Task<GetCustomerByTaxIdResponse> GetCustomerByTaxIdAsync(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

#### Returns

Type	Description
<a href="#">Task&lt;GetCustomerByTaxIdResponse&gt;</a>	

#### GetDailyDocumentsAsync(int)

#### Declaration

```
public Task<GetDailyDocumentsResponse> GetDailyDocumentsAsync(int arg0)
```

#### Parameters

#### Type Name Description

[int](#) arg0

#### Returns

Type	Description
<a href="#">Task&lt;GetDailyDocumentsResponse&gt;</a>	

#### GetDocumentInfoAsync(string)

#### Declaration

```
public Task<GetDocumentInfoResponse> GetDocumentInfoAsync(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

#### Returns

Type	Description
<a href="#">Task&lt;GetDocumentInfoResponse&gt;</a>	

#### GetIdenDataAsync()

#### Declaration

```
public Task<GetIdenDataResponse> GetIdenDataAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;GetIdenDataResponse&gt;</a>	

#### GetLedStateAsync()

#### Declaration

```
public Task<GetLedStateResponse> GetLedStateAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;GetLedStateResponse&gt;</a>	

#### GetMiddlewareParameterAsync(string, string)

#### Declaration

```
public Task<GetMiddlewareParameterResponse> GetMiddlewareParameterAsync(string arg0, string arg1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	arg0	
------------------------	------	--

<a href="#">string</a>	arg1	
------------------------	------	--

#### Returns

Type	Description
------	-------------

<a href="#">Task&lt;GetMiddlewareParameterResponse&gt;</a>	
--	--

### GetServiceTokenAsync(string)

#### Declaration

```
public Task<GetServiceTokenResponse> GetServiceTokenAsync(string arg0)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	arg0	
------------------------	------	--

#### Returns

Type	Description
------	-------------

<a href="#">Task&lt;GetServiceTokenResponse&gt;</a>	
---	--

### LightCOMmandAsync(string)

#### Declaration

```
public Task<LightCOMmandResponse> LightCOMmandAsync(string arg0)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	arg0	
------------------------	------	--

#### Returns

Type	Description
------	-------------

<a href="#">Task&lt;LightCOMmandResponse&gt;</a>	
--	--

### LoginCashierAsync(string, string)

#### Declaration

```
public Task<LoginCashierResponse> LoginCashierAsync(string arg0, string arg1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	arg0	
------------------------	------	--

<a href="#">string</a>	arg1	
------------------------	------	--

#### Returns

Type	Description
------	-------------

<a href="#">Task&lt;LoginCashierResponse&gt;</a>	
--	--

### OpenAsync()

#### Declaration

```
public virtual Task OpenAsync()
```

#### Returns

## Type Description

[Task](#)

### OpenDrawerAsync()

#### Declaration

```
public Task<OpenDrawerResponse> OpenDrawerAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;OpenDrawerResponse&gt;</a>	

### PersonalizationAsync(string, string, string)

#### Declaration

```
public Task<PersonalizationResponse> PersonalizationAsync(string arg0, string arg1, string arg2)
```

#### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

[string](#) arg2

#### Returns

Type	Description
<a href="#">Task&lt;PersonalizationResponse&gt;</a>	

### PingAsync()

#### Declaration

```
public Task<PingResponse> PingAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;PingResponse&gt;</a>	

### PrintAEEInfoAsync()

#### Declaration

```
public Task<PrintAEEInfoResponse> PrintAEEInfoAsync()
```

#### Returns

Type	Description
<a href="#">Task&lt;PrintAEEInfoResponse&gt;</a>	

### PrintDocumentListAsync(int)

#### Declaration

```
public Task<PrintDocumentListResponse> PrintDocumentListAsync(int arg0)
```

#### Parameters

#### Type Name Description

[int](#) arg0

#### Returns

Type	Description
------	-------------



Type	Description
<a href="#">Task&lt;PrintDocumentListResponse&gt;</a>	

### PrintFiscalMemoryListAsync(DateTime, DateTime)

#### Declaration

```
public Task<PrintFiscalMemoryListResponse> PrintFiscalMemoryListAsync(DateTime arg0, DateTime arg1)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	arg0	
<a href="#">DateTime</a>	arg1	

#### Returns

Type	Description
<a href="#">Task&lt;PrintFiscalMemoryListResponse&gt;</a>	

### PrintFiscalMemoryListbyZAsync(int, int)

#### Declaration

```
public Task<PrintFiscalMemoryListbyZResponse> PrintFiscalMemoryListbyZAsync(int arg0, int arg1)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	arg0	
<a href="#">int</a>	arg1	

#### Returns

Type	Description
<a href="#">Task&lt;PrintFiscalMemoryListbyZResponse&gt;</a>	

### PrintMonthlyServiceChargeReportAsync(int, int)

#### Declaration

```
public Task<PrintMonthlyServiceChargeReportResponse> PrintMonthlyServiceChargeReportAsync(int arg0, int arg1)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	arg0	
<a href="#">int</a>	arg1	

#### Returns

Type	Description
<a href="#">Task&lt;PrintMonthlyServiceChargeReportResponse&gt;</a>	

### PrintReceiptCopyAsync(string)

#### Declaration

```
public Task<PrintReceiptCopyResponse> PrintReceiptCopyAsync(string arg0)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	arg0	

#### Returns

Type	Description
------	-------------

**Type**                      **Description**

[Task<PrintReceiptCopyResponse>](#)

### **RequestFirmwareAsync(string)**

#### **Declaration**

```
public Task<RequestFirmwareResponse> RequestFirmwareAsync(string arg0)
```

#### **Parameters**

#### **Type Name Description**

[string](#) arg0

#### **Returns**

**Type**                      **Description**

[Task<RequestFirmwareResponse>](#)

### **RestartAEEAsync(string)**

#### **Declaration**

```
public Task<RestartAEEResponse> RestartAEEAsync(string arg0)
```

#### **Parameters**

#### **Type Name Description**

[string](#) arg0

#### **Returns**

**Type**                      **Description**

[Task<RestartAEEResponse>](#)

### **SetUUCAsync(string, string)**

#### **Declaration**

```
public Task<SetUUCResponse> SetUUCAsync(string arg0, string arg1)
```

#### **Parameters**

#### **Type Name Description**

[string](#) arg0

[string](#) arg1

#### **Returns**

**Type**                      **Description**

[Task<SetUUCResponse>](#)

### **StartComlogAsync(string, string)**

#### **Declaration**

```
public Task<StartComlogResponse> StartComlogAsync(string arg0, string arg1)
```

#### **Parameters**

#### **Type Name Description**

[string](#) arg0

[string](#) arg1

#### **Returns**

**Type**                      **Description**

[Task<StartComlogResponse>](#)

## StartServiceModeAsync(string)

### Declaration

```
public Task<StartServiceModeResponse> StartServiceModeAsync(string arg0)
```

### Parameters

#### Type Name Description

[string](#) arg0

### Returns

Type	Description
<a href="#">Task&lt;StartServiceModeResponse&gt;</a>	

## UnblockSystemAsync(string)

### Declaration

```
public Task<UnblockSystemResponse> UnblockSystemAsync(string arg0)
```

### Parameters

#### Type Name Description

[string](#) arg0

### Returns

Type	Description
<a href="#">Task&lt;UnblockSystemResponse&gt;</a>	

## WriteCustomerDisplayAsync(string, string)

### Declaration

```
public Task<WriteCustomerDisplayResponse> WriteCustomerDisplayAsync(string arg0, string arg1)
```

### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

### Returns

Type	Description
<a href="#">Task&lt;WriteCustomerDisplayResponse&gt;</a>	

## getDrawerContentAsync()

### Declaration

```
public Task<getDrawerContentResponse> getDrawerContentAsync()
```

### Returns

Type	Description
<a href="#">Task&lt;getDrawerContentResponse&gt;</a>	

## getModemDetailsAsync()

### Declaration

```
public Task<getModemDetailsResponse> getModemDetailsAsync()
```

### Returns

Type	Description
------	-------------

Type	Description
<a href="#">Task&lt;getModemDetailsResponse&gt;</a>	

### Implements

[IDisposable](#)  
[ICommunicationObject](#)  
[IAsyncDisposable](#)  
[AdeleService](#)

# Enum AdeleServiceClient.EndpointConfiguration

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum AdeleServiceClient.EndpointConfiguration
```

## Fields

Name	Description
AdeleServicePort	

# Class BlockSystemRequest

## Inheritance

[object](#)

BlockSystemRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "BlockSystem", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class BlockSystemRequest
```

## Constructors

### BlockSystemRequest()

#### Declaration

```
public BlockSystemRequest()
```

# Class BlockSystemResponse

## Inheritance

[object](#)

BlockSystemResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "BlockSystemResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class BlockSystemResponse
```

## Constructors

### BlockSystemResponse()

#### Declaration

```
public BlockSystemResponse()
```

### BlockSystemResponse(adeleError)

#### Declaration

```
public BlockSystemResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
<a href="#">adeleError</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
<a href="#">adeleError</a>	

# Class CashReport2Request

## Inheritance

[object](#)

CashReport2Request

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CashReport2", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CashReport2Request
```

## Constructors

### CashReport2Request()

#### Declaration

```
public CashReport2Request()
```

### CashReport2Request(FreeLine[], bool)

#### Declaration

```
public CashReport2Request(FreeLine[] arg0, bool arg1)
```

#### Parameters

Type	Name	Description
<a href="#">FreeLine[]</a>	arg0	
<a href="#">bool</a>	arg1	

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public FreeLine[] arg0
```

#### Field Value

Type	Description
<a href="#">FreeLine[]</a>	

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public bool arg1
```

#### Field Value



## Type Description

[bool](#)

# Class CashReport2Response

## Inheritance

[object](#)

CashReport2Response

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CashReport2Response", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CashReport2Response
```

## Constructors

### CashReport2Response()

#### Declaration

```
public CashReport2Response()
```

### CashReport2Response(documentAnswer)

#### Declaration

```
public CashReport2Response(documentAnswer @return)
```

#### Parameters

Type	Name	Description
<a href="#">documentAnswer</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

#### Field Value

Type	Description
<a href="#">documentAnswer</a>	

# Class CashReportRequest

## Inheritance

[object](#)

CashReportRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CashReport", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CashReportRequest
```

## Constructors

### CashReportRequest()

## Declaration

```
public CashReportRequest()
```

# Class CashReportResponse

## Inheritance

[object](#)

CashReportResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CashReportResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CashReportResponse
```

## Constructors

### CashReportResponse()

#### Declaration

```
public CashReportResponse()
```

### CashReportResponse(adeleError)

#### Declaration

```
public CashReportResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class CloseFiscalDayRequest

## Inheritance

[object](#)

CloseFiscalDayRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CloseFiscalDay", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CloseFiscalDayRequest
```

## Constructors

### CloseFiscalDayRequest()

## Declaration

```
public CloseFiscalDayRequest()
```

# Class CloseFiscalDayResponse

## Inheritance

[object](#)

CloseFiscalDayResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CloseFiscalDayResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CloseFiscalDayResponse
```

## Constructors

### CloseFiscalDayResponse()

#### Declaration

```
public CloseFiscalDayResponse()
```

### CloseFiscalDayResponse(adeleError)

#### Declaration

```
public CloseFiscalDayResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
<a href="#">adeleError</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
<a href="#">adeleError</a>	

# Class CloseServiceModeRequest

## Inheritance

[object](#)

CloseServiceModeRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "CloseServiceMode", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CloseServiceModeRequest
```

## Constructors

### CloseServiceModeRequest()

#### Declaration

```
public CloseServiceModeRequest()
```

# Class CloseServiceModeResponse

## Inheritance

[object](#)

CloseServiceModeResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CloseServiceModeResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CloseServiceModeResponse
```

## Constructors

### CloseServiceModeResponse()

#### Declaration

```
public CloseServiceModeResponse()
```

### CloseServiceModeResponse(adeleError)

#### Declaration

```
public CloseServiceModeResponse(adeleError @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--



# Class ContinueOfAeeOperationRequest

## Inheritance

[object](#)

ContinueOfAeeOperationRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "ContinueOfAeeOperation", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class ContinueOfAeeOperationRequest
```

## Constructors

### ContinueOfAeeOperationRequest()

#### Declaration

```
public ContinueOfAeeOperationRequest ()
```

### ContinueOfAeeOperationRequest(string)

#### Declaration

```
public ContinueOfAeeOperationRequest (string arg0)
```

#### Parameters

### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

### Type Description

[string](#)

# Class ContinueOfAeeOperationResponse

## Inheritance

[object](#)

ContinueOfAeeOperationResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "ContinueOfAeeOperationResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class ContinueOfAeeOperationResponse
```

## Constructors

### ContinueOfAeeOperationResponse()

#### Declaration

```
public ContinueOfAeeOperationResponse()
```

### ContinueOfAeeOperationResponse(adeleError)

#### Declaration

```
public ContinueOfAeeOperationResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class CustomerDisplayShowitemRequest

## Inheritance

[object](#)

CustomerDisplayShowitemRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CustomerDisplayShowitem", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CustomerDisplayShowitemRequest
```

## Constructors

### CustomerDisplayShowitemRequest()

#### Declaration

```
public CustomerDisplayShowitemRequest()
```

### CustomerDisplayShowitemRequest(itemRow)

#### Declaration

```
public CustomerDisplayShowitemRequest(itemRow arg0)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">itemRow</a>	arg0	
-------------------------	------	--

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public itemRow arg0
```

#### Field Value

Type	Description
------	-------------

<a href="#">itemRow</a>	
-------------------------	--

# Class CustomerDisplayShowitemResponse

## Inheritance

[object](#)

CustomerDisplayShowitemResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "CustomerDisplayShowitemResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class CustomerDisplayShowitemResponse
```

## Constructors

### CustomerDisplayShowitemResponse()

#### Declaration

```
public CustomerDisplayShowitemResponse()
```

### CustomerDisplayShowitemResponse(errorType)

#### Declaration

```
public CustomerDisplayShowitemResponse(errorType @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">errorType</a>	return	
---------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public errorType @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">errorType</a>	
---------------------------	--

# Class DeletePendingDocumentsRequest

## Inheritance

[object](#)

DeletePendingDocumentsRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DeletePendingDocuments", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DeletePendingDocumentsRequest
```

## Constructors

### DeletePendingDocumentsRequest()

#### Declaration

```
public DeletePendingDocumentsRequest ()
```

# Class DeletePendingDocumentsResponse

## Inheritance

[object](#)

DeletePendingDocumentsResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DeletePendingDocumentsResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DeletePendingDocumentsResponse
```

## Constructors

### DeletePendingDocumentsResponse()

#### Declaration

```
public DeletePendingDocumentsResponse()
```

### DeletePendingDocumentsResponse(adeleError)

#### Declaration

```
public DeletePendingDocumentsResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class DirectCommandRequest

## Inheritance

[object](#)

DirectCommandRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DirectCommand", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DirectCommandRequest
```

## Constructors

### DirectCommandRequest()

#### Declaration

```
public DirectCommandRequest()
```

### DirectCommandRequest(string)

#### Declaration

```
public DirectCommandRequest(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class DirectCommandResponse

## Inheritance

[object](#)

DirectCommandResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DirectCommandResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DirectCommandResponse
```

## Constructors

### DirectCommandResponse()

#### Declaration

```
public DirectCommandResponse()
```

### DirectCommandResponse(string)

#### Declaration

```
public DirectCommandResponse(string @return)
```

#### Parameters

### Type Name Description

[string](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string @return
```

#### Field Value

### Type Description

[string](#)



# Class DirectIORequest

## Inheritance

[object](#)

DirectIORequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DirectIO", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DirectIORequest
```

## Constructors

### DirectIORequest()

#### Declaration

```
public DirectIORequest()
```

### DirectIORequest(string)

#### Declaration

```
public DirectIORequest(string arg0)
```

#### Parameters

### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

### Type Description

[string](#)

# Class DirectIOResponse

## Inheritance

[object](#)

DirectIOResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract (WrapperName = "DirectIOResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DirectIOResponse
```

## Constructors

### DirectIOResponse()

#### Declaration

```
public DirectIOResponse ()
```

### DirectIOResponse(string)

#### Declaration

```
public DirectIOResponse (string @return)
```

#### Parameters

### Type Name Description

[string](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string @return
```

#### Field Value

### Type Description

[string](#)

# Class DisableUSBRequest

## Inheritance

[object](#)

DisableUSBRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "DisableUSB", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DisableUSBRequest
```

## Constructors

### DisableUSBRequest()

## Declaration

```
public DisableUSBRequest()
```

# Class DisableUSBResponse

## Inheritance

[object](#)

DisableUSBResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DisableUSBResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DisableUSBResponse
```

## Constructors

### DisableUSBResponse()

#### Declaration

```
public DisableUSBResponse()
```

### DisableUSBResponse(adeleError)

#### Declaration

```
public DisableUSBResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class DocumentContainer

## Inheritance

[object](#)

DocumentContainer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentContainer
```

## Properties

### Amount

#### Declaration

```
public double Amount { get; set; }
```

#### Property Value

#### Type Description

[double](#)

### Cancelled

#### Declaration

```
public bool Cancelled { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### CheckNumber

#### Declaration

```
public string CheckNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Contractor

#### Declaration

```
public int Contractor { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**Copy**

**Declaration**

```
public int Copy { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**CustomerData**

**Declaration**

```
public customer CustomerData { get; set; }
```

**Property Value**

**Type Description**

[customer](#)

**DisableAutoCut**

**Declaration**

```
public bool DisableAutoCut { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**DisableAutoCutSpecified**

**Declaration**

```
public bool DisableAutoCutSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**DocumentClose**

**Declaration**

```
public DateTime DocumentClose { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

## DocumentCloseSpecified

### Declaration

```
public bool DocumentCloseSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## DocumentOpen

### Declaration

```
public DateTime DocumentOpen { get; set; }
```

### Property Value

### Type Description

[DateTime](#)

## DocumentOpenSpecified

### Declaration

```
public bool DocumentOpenSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## FreeLines

### Declaration

```
public FreeLine[] FreeLines { get; set; }
```

### Property Value

### Type Description

[FreeLine\[\]](#)

## HealthFundData

### Declaration

```
public healthFundData HealthFundData { get; set; }
```

### Property Value

### Type Description

[healthFundData](#)

## IssueDate

### Declaration

```
public string IssueDate { get; set; }
```

### Property Value

## Type Description

[string](#)

## Items

### Declaration

```
public Item[] Items { get; set; }
```

### Property Value

## Type Description

[Item\[\]](#)

## NonFiscalDocumentName

### Declaration

```
public string NonFiscalDocumentName { get; set; }
```

### Property Value

## Type Description

[string](#)

## OriginalDocument

### Declaration

```
public string OriginalDocument { get; set; }
```

### Property Value

## Type Description

[string](#)

## Payments

### Declaration

```
public payment[] Payments { get; set; }
```

### Property Value

## Type Description

[payment\[\]](#)

## PrintingId

### Declaration

```
public string PrintingId { get; set; }
```

### Property Value

## Type Description

[string](#)

## QueuePrinting

### Declaration



```
public bool QueuePrinting { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**QueuePrintingSpecified**

**Declaration**

```
public bool QueuePrintingSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**Reason**

**Declaration**

```
public string Reason { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ReceiptType**

**Declaration**

```
public documentType ReceiptType { get; set; }
```

**Property Value**

**Type Description**

[documentType](#)

**SilentPrint**

**Declaration**

```
public bool SilentPrint { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**SilentPrintSpecified**

**Declaration**

```
public bool SilentPrintSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## Takeaway

### Declaration

```
public bool Takeaway { get; set; }
```

### Property Value

### Type Description

[bool](#)

## TakeawaySpecified

### Declaration

```
public bool TakeawaySpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## Template

### Declaration

```
public string Template { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class DocumentRequest

## Inheritance

[object](#)

DocumentRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "Document", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DocumentRequest
```

## Constructors

### DocumentRequest()

#### Declaration

```
public DocumentRequest()
```

### DocumentRequest(DocumentContainer)

#### Declaration

```
public DocumentRequest(DocumentContainer arg0)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentContainer</a>	arg0	

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public DocumentContainer arg0
```

#### Field Value

Type	Description
<a href="#">DocumentContainer</a>	

# Class DocumentResponse

## Inheritance

[object](#)

DocumentResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract (WrapperName = "DocumentResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DocumentResponse
```

## Constructors

### DocumentResponse()

#### Declaration

```
public DocumentResponse ()
```

### DocumentResponse(documentAnswer)

#### Declaration

```
public DocumentResponse (documentAnswer @return)
```

#### Parameters

Type	Name	Description
<a href="#">documentAnswer</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

#### Field Value

Type	Description
<a href="#">documentAnswer</a>	

# Class DownloadElectronicJorunalRequest

## Inheritance

[object](#)

DownloadElectronicJorunalRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DownloadElectronicJorunal", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DownloadElectronicJorunalRequest
```

## Constructors

### DownloadElectronicJorunalRequest()

#### Declaration

```
public DownloadElectronicJorunalRequest()
```

### DownloadElectronicJorunalRequest(int, string)

#### Declaration

```
public DownloadElectronicJorunalRequest(int arg0, string arg1)
```

#### Parameters

#### Type Name Description

[int](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public int arg0
```

#### Field Value

#### Type Description

[int](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

#### Type Description

[string](#)

# Class DownloadElectronicJorunalResponse

## Inheritance

[object](#)

DownloadElectronicJorunalResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "DownloadElectronicJorunalResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class DownloadElectronicJorunalResponse
```

## Constructors

### DownloadElectronicJorunalResponse()

#### Declaration

```
public DownloadElectronicJorunalResponse()
```

### DownloadElectronicJorunalResponse(bool)

#### Declaration

```
public DownloadElectronicJorunalResponse(bool @return)
```

#### Parameters

#### Type Name Description

[bool](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public bool @return
```

#### Field Value

#### Type Description

[bool](#)

# Class EnableUSBRequest

## Inheritance

[object](#)

EnableUSBRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "EnableUSB", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class EnableUSBRequest
```

## Constructors

### EnableUSBRequest()

#### Declaration

```
public EnableUSBRequest()
```

# Class EnableUSBResponse

## Inheritance

[object](#)

EnableUSBResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract (WrapperName = "EnableUSBResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class EnableUSBResponse
```

## Constructors

### EnableUSBResponse()

#### Declaration

```
public EnableUSBResponse ()
```

### EnableUSBResponse(adeleError)

#### Declaration

```
public EnableUSBResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--



# Class EndOfAeeOperationRequest

## Inheritance

[object](#)

EndOfAeeOperationRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract (WrapperName = "EndOfAeeOperation", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class EndOfAeeOperationRequest
```

## Constructors

### EndOfAeeOperationRequest()

#### Declaration

```
public EndOfAeeOperationRequest ()
```

### EndOfAeeOperationRequest(string, string)

#### Declaration

```
public EndOfAeeOperationRequest(string arg0, string arg1)
```

## Parameters

### Type Name Description

[string](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

### Type Description

[string](#)

# Class EndOfAeeOperationResponse

## Inheritance

[object](#)

EndOfAeeOperationResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "EndOfAeeOperationResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class EndOfAeeOperationResponse
```

## Constructors

### EndOfAeeOperationResponse()

#### Declaration

```
public EndOfAeeOperationResponse()
```

### EndOfAeeOperationResponse(adeleError)

#### Declaration

```
public EndOfAeeOperationResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class FreeLine

## Inheritance

[object](#)  
FreeLine

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FreeLine
```

## Properties

### BarcodeAlignment

#### Declaration

```
public barcodeAlignments BarcodeAlignment { get; set; }
```

#### Property Value

Type	Description
<a href="#">barcodeAlignments</a>	

### BarcodeData

#### Declaration

```
public string BarcodeData { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### BarcodeHRIFont

#### Declaration

```
public int BarcodeHRIFont { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### BarcodeHRIPosition

#### Declaration

```
public barcodeHRIPositions BarcodeHRIPosition { get; set; }
```

#### Property Value

Type	Description
<a href="#">barcodeHRIPositions</a>	

#### BarcodeHeight

##### Declaration

```
public int BarcodeHeight { get; set; }
```

#### Property Value

##### Type Description

[int](#)

#### BarcodeType

##### Declaration

```
public barcodeTypes BarcodeType { get; set; }
```

#### Property Value

Type	Description
<a href="#">barcodeTypes</a>	

#### BarcodeWidth

##### Declaration

```
public int BarcodeWidth { get; set; }
```

#### Property Value

##### Type Description

[int](#)

#### FreeLineAlignment

##### Declaration

```
public freeLineAlignment FreeLineAlignment { get; set; }
```

#### Property Value

Type	Description
<a href="#">freeLineAlignment</a>	

#### FreeLineFormat

##### Declaration

```
public freeLineFormat FreeLineFormat { get; set; }
```

#### Property Value

Type	Description
<a href="#">freeLineFormat</a>	

## FreeLineRightAlignedText

### Declaration

```
public string FreeLineRightAlignedText { get; set; }
```

### Property Value

### Type Description

[string](#)

## FreeLineText

### Declaration

```
public string FreeLineText { get; set; }
```

### Property Value

### Type Description

[string](#)

## FreeLineType

### Declaration

```
public freeLineTypes FreeLineType { get; set; }
```

### Property Value

Type	Description
------	-------------

[freeLineTypes](#)

## ItemIndex

### Declaration

```
public int ItemIndex { get; set; }
```

### Property Value

### Type Description

[int](#)

## QRCorrectionLevel

### Declaration

```
public int QRCorrectionLevel { get; set; }
```

### Property Value

### Type Description

[int](#)

## QRData

### Declaration

```
public string QRData { get; set; }
```

### Property Value

## Type Description

[string](#)

## QRModel

### Declaration

```
public int QRModel { get; set; }
```

### Property Value

## Type Description

[int](#)

## QRSize

### Declaration

```
public int QRSize { get; set; }
```

### Property Value

## Type Description

[int](#)

# Class GetAdeleInfoRequest

## Inheritance

[object](#)

GetAdeleInfoRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetAdeleInfo", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetAdeleInfoRequest
```

## Constructors

### GetAdeleInfoRequest()

#### Declaration

```
public GetAdeleInfoRequest()
```

# Class GetAdeleInfoResponse

## Inheritance

[object](#)

GetAdeleInfoResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetAdeleInfoResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetAdeleInfoResponse
```

## Constructors

### GetAdeleInfoResponse()

#### Declaration

```
public GetAdeleInfoResponse()
```

### GetAdeleInfoResponse(adeleInfo)

#### Declaration

```
public GetAdeleInfoResponse(adeleInfo @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleInfo</a>	return	
---------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleInfo @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleInfo</a>	
---------------------------	--



# Class GetClosureDataRequest

## Inheritance

[object](#)

GetClosureDataRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetClosureData", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetClosureDataRequest
```

## Constructors

### GetClosureDataRequest()

#### Declaration

```
public GetClosureDataRequest()
```

### GetClosureDataRequest(int)

#### Declaration

```
public GetClosureDataRequest(int arg0)
```

#### Parameters

### Type Name Description

[int](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public int arg0
```

#### Field Value

### Type Description

[int](#)

# Class GetClosureDataResponse

## Inheritance

[object](#)

GetClosureDataResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetClosureDataResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetClosureDataResponse
```

## Constructors

### GetClosureDataResponse()

#### Declaration

```
public GetClosureDataResponse ()
```

### GetClosureDataResponse(zData)

#### Declaration

```
public GetClosureDataResponse (zData @return)
```

#### Parameters

### Type Name Description

[zData](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public zData @return
```

#### Field Value

### Type Description

[zData](#)

# Class GetCustomerByTaxIdRequest

## Inheritance

[object](#)

GetCustomerByTaxIdRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetCustomerByTaxId", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetCustomerByTaxIdRequest
```

## Constructors

### GetCustomerByTaxIdRequest()

#### Declaration

```
public GetCustomerByTaxIdRequest ()
```

### GetCustomerByTaxIdRequest(string)

#### Declaration

```
public GetCustomerByTaxIdRequest (string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class GetCustomerByTaxIdResponse

## Inheritance

[object](#)

GetCustomerByTaxIdResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetCustomerByTaxIdResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetCustomerByTaxIdResponse
```

## Constructors

### GetCustomerByTaxIdResponse()

#### Declaration

```
public GetCustomerByTaxIdResponse ()
```

### GetCustomerByTaxIdResponse(customer)

#### Declaration

```
public GetCustomerByTaxIdResponse (customer @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">customer</a>	return	
--------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public customer @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">customer</a>	
--------------------------	--

# Class GetDailyDocumentsRequest

## Inheritance

[object](#)

GetDailyDocumentsRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetDailyDocuments", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetDailyDocumentsRequest
```

## Constructors

### GetDailyDocumentsRequest()

#### Declaration

```
public GetDailyDocumentsRequest()
```

### GetDailyDocumentsRequest(int)

#### Declaration

```
public GetDailyDocumentsRequest(int arg0)
```

#### Parameters

#### Type Name Description

[int](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public int arg0
```

#### Field Value

#### Type Description

[int](#)

# Class GetDailyDocumentsResponse

## Inheritance

[object](#)

GetDailyDocumentsResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetDailyDocumentsResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetDailyDocumentsResponse
```

## Constructors

### GetDailyDocumentsResponse()

#### Declaration

```
public GetDailyDocumentsResponse()
```

### GetDailyDocumentsResponse(adeleError)

#### Declaration

```
public GetDailyDocumentsResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class GetDocumentInfoRequest

## Inheritance

[object](#)

GetDocumentInfoRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract (WrapperName = "GetDocumentInfo", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetDocumentInfoRequest
```

## Constructors

### GetDocumentInfoRequest()

#### Declaration

```
public GetDocumentInfoRequest ()
```

### GetDocumentInfoRequest(string)

#### Declaration

```
public GetDocumentInfoRequest (string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class GetDocumentInfoResponse

## Inheritance

[object](#)

GetDocumentInfoResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetDocumentInfoResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetDocumentInfoResponse
```

## Constructors

### GetDocumentInfoResponse()

#### Declaration

```
public GetDocumentInfoResponse()
```

### GetDocumentInfoResponse(documentAnswer)

#### Declaration

```
public GetDocumentInfoResponse(documentAnswer @return)
```

#### Parameters

Type	Name	Description
<a href="#">documentAnswer</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

#### Field Value

Type	Description
<a href="#">documentAnswer</a>	



# Class GetIdenDataRequest

## Inheritance

[object](#)

GetIdenDataRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetIdenData", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetIdenDataRequest
```

## Constructors

### GetIdenDataRequest()

## Declaration

```
public GetIdenDataRequest ()
```

# Class GetIdenDataResponse

## Inheritance

[object](#)

GetIdenDataResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetIdenDataResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetIdenDataResponse
```

## Constructors

### GetIdenDataResponse()

#### Declaration

```
public GetIdenDataResponse()
```

### GetIdenDataResponse(identityData)

#### Declaration

```
public GetIdenDataResponse(identityData @return)
```

#### Parameters

Type	Name	Description
<a href="#">identityData</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public identityData @return
```

#### Field Value

Type	Description
<a href="#">identityData</a>	

# Class GetLedStateRequest

## Inheritance

[object](#)

GetLedStateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetLedState", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetLedStateRequest
```

## Constructors

### GetLedStateRequest()

## Declaration

```
public GetLedStateRequest ()
```

# Class GetLedStateResponse

## Inheritance

[object](#)

GetLedStateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetLedStateResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetLedStateResponse
```

## Constructors

### GetLedStateResponse()

#### Declaration

```
public GetLedStateResponse()
```

### GetLedStateResponse(aeeLedAnswer)

#### Declaration

```
public GetLedStateResponse(aeeLedAnswer @return)
```

#### Parameters

Type	Name	Description
<a href="#">aeeLedAnswer</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public aeeLedAnswer @return
```

#### Field Value

Type	Description
<a href="#">aeeLedAnswer</a>	

# Class GetMiddlewareParameterRequest

## Inheritance

[object](#)

GetMiddlewareParameterRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetMiddlewareParameter", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetMiddlewareParameterRequest
```

## Constructors

### GetMiddlewareParameterRequest()

#### Declaration

```
public GetMiddlewareParameterRequest ()
```

### GetMiddlewareParameterRequest(string, string)

#### Declaration

```
public GetMiddlewareParameterRequest (string arg0, string arg1)
```

#### Parameters

### Type Name Description

[string](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

### Type Description

[string](#)

# Class GetMiddlewareParameterResponse

## Inheritance

[object](#)

GetMiddlewareParameterResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "GetMiddlewareParameterResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetMiddlewareParameterResponse
```

## Constructors

### GetMiddlewareParameterResponse()

#### Declaration

```
public GetMiddlewareParameterResponse()
```

### GetMiddlewareParameterResponse(string)

#### Declaration

```
public GetMiddlewareParameterResponse(string @return)
```

#### Parameters

#### Type Name Description

[string](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string @return
```

#### Field Value

#### Type Description

[string](#)

# Class GetServiceTokenRequest

## Inheritance

[object](#)

GetServiceTokenRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetServiceToken", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetServiceTokenRequest
```

## Constructors

### GetServiceTokenRequest()

#### Declaration

```
public GetServiceTokenRequest()
```

### GetServiceTokenRequest(string)

#### Declaration

```
public GetServiceTokenRequest(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class GetServiceTokenResponse

## Inheritance

[object](#)

GetServiceTokenResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "GetServiceTokenResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class GetServiceTokenResponse
```

## Constructors

### GetServiceTokenResponse()

#### Declaration

```
public GetServiceTokenResponse()
```

### GetServiceTokenResponse(string)

#### Declaration

```
public GetServiceTokenResponse(string @return)
```

#### Parameters

### Type Name Description

[string](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string @return
```

#### Field Value

### Type Description

[string](#)



# Class Item

## Inheritance

[object](#)

Item

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Item
```

## Properties

### ArticleNumber

#### Declaration

```
public string ArticleNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ItemCode

#### Declaration

```
public string ItemCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ItemType

#### Declaration

```
public itemTypes ItemType { get; set; }
```

#### Property Value

#### Type Description

[itemTypes](#)

### MainCategory

#### Declaration

```
public string MainCategory { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Name**

**Declaration**

```
public string Name { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PostLines**

**Declaration**

```
public FreeLine[] PostLines { get; set; }
```

**Property Value**

**Type Description**

[FreeLine\[\]](#)

**PreLines**

**Declaration**

```
public FreeLine[] PreLines { get; set; }
```

**Property Value**

**Type Description**

[FreeLine\[\]](#)

**Price**

**Declaration**

```
public double Price { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**Quantity**

**Declaration**

```
public double Quantity { get; set; }
```

**Property Value**

**Type Description**

[double](#)

## QuantityUnit

### Declaration

```
public string QuantityUnit { get; set; }
```

### Property Value

### Type Description

[string](#)

## SubCategory

### Declaration

```
public string SubCategory { get; set; }
```

### Property Value

### Type Description

[string](#)

## Value

### Declaration

```
public double Value { get; set; }
```

### Property Value

### Type Description

[double](#)

## VatRate

### Declaration

```
public int VatRate { get; set; }
```

### Property Value

### Type Description

[int](#)

## VatSub

### Declaration

```
public int VatSub { get; set; }
```

### Property Value

### Type Description

[int](#)

# Class LightCOMmandRequest

## Inheritance

[object](#)

LightCOMmandRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "LightCOMmand", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class LightCOMmandRequest
```

## Constructors

### LightCOMmandRequest()

#### Declaration

```
public LightCOMmandRequest()
```

### LightCOMmandRequest(string)

#### Declaration

```
public LightCOMmandRequest(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class LightCOMmandResponse

## Inheritance

[object](#)

LightCOMmandResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "LightCOMmandResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class LightCOMmandResponse
```

## Constructors

### LightCOMmandResponse()

#### Declaration

```
public LightCOMmandResponse()
```

### LightCOMmandResponse(string)

#### Declaration

```
public LightCOMmandResponse(string @return)
```

#### Parameters

### Type Name Description

[string](#) return

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string @return
```

#### Field Value

### Type Description

[string](#)

# Class LoginCashierRequest

## Inheritance

[object](#)

LoginCashierRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "LoginCashier", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class LoginCashierRequest
```

## Constructors

### LoginCashierRequest()

#### Declaration

```
public LoginCashierRequest()
```

### LoginCashierRequest(string, string)

#### Declaration

```
public LoginCashierRequest(string arg0, string arg1)
```

#### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

**Type Description**

[string](#)

# Class LoginCashierResponse

## Inheritance

[object](#)

LoginCashierResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "LoginCashierResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class LoginCashierResponse
```

## Constructors

### LoginCashierResponse()

#### Declaration

```
public LoginCashierResponse()
```

### LoginCashierResponse(adeleError)

#### Declaration

```
public LoginCashierResponse(adeleError @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--



# Class OpenDrawerRequest

## Inheritance

[object](#)

OpenDrawerRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "OpenDrawer", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class OpenDrawerRequest
```

## Constructors

### OpenDrawerRequest()

## Declaration

```
public OpenDrawerRequest()
```

# Class OpenDrawerResponse

## Inheritance

[object](#)

OpenDrawerResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "OpenDrawerResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class OpenDrawerResponse
```

## Constructors

### OpenDrawerResponse()

#### Declaration

```
public OpenDrawerResponse()
```

### OpenDrawerResponse(adeleError)

#### Declaration

```
public OpenDrawerResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class PersonalizationRequest

## Inheritance

[object](#)

PersonalizationRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract (WrapperName = "Personalization", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PersonalizationRequest
```

## Constructors

### PersonalizationRequest()

#### Declaration

```
public PersonalizationRequest ()
```

### PersonalizationRequest(string, string, string)

#### Declaration

```
public PersonalizationRequest (string arg0, string arg1, string arg2)
```

#### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

[string](#) arg2

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

#### Type Description

## **Type Description**

**arg2**

### **Declaration**

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 2)]  
public string arg2
```

### **Field Value**

## **Type Description**

[string](#)

# Class PersonalizationResponse

## Inheritance

[object](#)

PersonalizationResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PersonalizationResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PersonalizationResponse
```

## Constructors

### PersonalizationResponse()

#### Declaration

```
public PersonalizationResponse()
```

### PersonalizationResponse(adeleError)

#### Declaration

```
public PersonalizationResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class PingRequest

## Inheritance

[object](#)  
PingRequest

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "Ping", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PingRequest
```

## Constructors

### PingRequest()

#### Declaration

```
public PingRequest()
```

# Class PingResponse

## Inheritance

[object](#)

PingResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PingResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PingResponse
```

## Constructors

### PingResponse()

#### Declaration

```
public PingResponse()
```

### PingResponse(adeleError)

#### Declaration

```
public PingResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
<a href="#">adeleError</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
<a href="#">adeleError</a>	

# Class PrintAEEInfoRequest

## Inheritance

[object](#)

PrintAEEInfoRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintAEEInfo", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintAEEInfoRequest
```

## Constructors

### PrintAEEInfoRequest()

#### Declaration

```
public PrintAEEInfoRequest()
```



# Class PrintAEEInfoResponse

## Inheritance

[object](#)

PrintAEEInfoResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintAEEInfoResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintAEEInfoResponse
```

## Constructors

### PrintAEEInfoResponse()

#### Declaration

```
public PrintAEEInfoResponse()
```

### PrintAEEInfoResponse(adeleError)

#### Declaration

```
public PrintAEEInfoResponse(adeleError @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class PrintDocumentListRequest

## Inheritance

[object](#)

PrintDocumentListRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract (WrapperName = "PrintDocumentList", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintDocumentListRequest
```

## Constructors

### PrintDocumentListRequest()

#### Declaration

```
public PrintDocumentListRequest ()
```

### PrintDocumentListRequest(int)

#### Declaration

```
public PrintDocumentListRequest (int arg0)
```

#### Parameters

#### Type Name Description

[int](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public int arg0
```

#### Field Value

#### Type Description

[int](#)

# Class PrintDocumentListResponse

## Inheritance

[object](#)

PrintDocumentListResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintDocumentListResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintDocumentListResponse
```

## Constructors

### PrintDocumentListResponse()

#### Declaration

```
public PrintDocumentListResponse()
```

### PrintDocumentListResponse(adeleError)

#### Declaration

```
public PrintDocumentListResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class PrintFiscalMemoryListRequest

## Inheritance

[object](#)

PrintFiscalMemoryListRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintFiscalMemoryList", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintFiscalMemoryListRequest
```

## Constructors

### PrintFiscalMemoryListRequest()

#### Declaration

```
public PrintFiscalMemoryListRequest()
```

### PrintFiscalMemoryListRequest(DateTime, DateTime)

#### Declaration

```
public PrintFiscalMemoryListRequest(DateTime arg0, DateTime arg1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">DateTime</a>	arg0	
--------------------------	------	--

<a href="#">DateTime</a>	arg1	
--------------------------	------	--

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public DateTime arg0
```

#### Field Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public DateTime arg1
```

#### Field Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

# Class PrintFiscalMemoryListResponse

## Inheritance

[object](#)

PrintFiscalMemoryListResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintFiscalMemoryListResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintFiscalMemoryListResponse
```

## Constructors

### PrintFiscalMemoryListResponse()

#### Declaration

```
public PrintFiscalMemoryListResponse()
```

### PrintFiscalMemoryListResponse(errorType)

#### Declaration

```
public PrintFiscalMemoryListResponse(errorType @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">errorType</a>	return	
---------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public errorType @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">errorType</a>	
---------------------------	--

# Class PrintFiscalMemoryListbyZRequest

## Inheritance

[object](#)

PrintFiscalMemoryListbyZRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintFiscalMemoryListbyZ", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintFiscalMemoryListbyZRequest
```

## Constructors

### PrintFiscalMemoryListbyZRequest()

#### Declaration

```
public PrintFiscalMemoryListbyZRequest ()
```

### PrintFiscalMemoryListbyZRequest(int, int)

#### Declaration

```
public PrintFiscalMemoryListbyZRequest(int arg0, int arg1)
```

#### Parameters

#### Type Name Description

[int](#) arg0

[int](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public int arg0
```

#### Field Value

#### Type Description

[int](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public int arg1
```

#### Field Value

#### Type Description

[int](#)

# Class PrintFiscalMemoryListbyZResponse

## Inheritance

[object](#)

PrintFiscalMemoryListbyZResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintFiscalMemoryListbyZResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintFiscalMemoryListbyZResponse
```

## Constructors

### PrintFiscalMemoryListbyZResponse()

#### Declaration

```
public PrintFiscalMemoryListbyZResponse()
```

### PrintFiscalMemoryListbyZResponse(adeleError)

#### Declaration

```
public PrintFiscalMemoryListbyZResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class PrintMonthlyServiceChargeReportRequest

## Inheritance

[object](#)

PrintMonthlyServiceChargeReportRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintMonthlyServiceChargeReport", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintMonthlyServiceChargeReportRequest
```

## Constructors

### PrintMonthlyServiceChargeReportRequest()

#### Declaration

```
public PrintMonthlyServiceChargeReportRequest()
```

### PrintMonthlyServiceChargeReportRequest(int, int)

#### Declaration

```
public PrintMonthlyServiceChargeReportRequest(int arg0, int arg1)
```

#### Parameters

#### Type Name Description

[int](#) arg0

[int](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public int arg0
```

#### Field Value

#### Type Description

[int](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public int arg1
```

#### Field Value

#### Type Description

[int](#)



# Class PrintMonthlyServiceChargeReportResponse

## Inheritance

[object](#)

PrintMonthlyServiceChargeReportResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract (WrapperName = "PrintMonthlyServiceChargeReportResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintMonthlyServiceChargeReportResponse
```

## Constructors

### PrintMonthlyServiceChargeReportResponse()

#### Declaration

```
public PrintMonthlyServiceChargeReportResponse ()
```

### PrintMonthlyServiceChargeReportResponse(documentAnswer)

#### Declaration

```
public PrintMonthlyServiceChargeReportResponse (documentAnswer @return)
```

#### Parameters

Type	Name	Description
<a href="#">documentAnswer</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

#### Field Value

Type	Description
<a href="#">documentAnswer</a>	

# Class PrintReceiptCopyRequest

## Inheritance

[object](#)

PrintReceiptCopyRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract (WrapperName = "PrintReceiptCopy", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintReceiptCopyRequest
```

## Constructors

### PrintReceiptCopyRequest()

#### Declaration

```
public PrintReceiptCopyRequest ()
```

### PrintReceiptCopyRequest(string)

#### Declaration

```
public PrintReceiptCopyRequest (string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class PrintReceiptCopyResponse

## Inheritance

[object](#)

PrintReceiptCopyResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "PrintReceiptCopyResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class PrintReceiptCopyResponse
```

## Constructors

### PrintReceiptCopyResponse()

#### Declaration

```
public PrintReceiptCopyResponse()
```

### PrintReceiptCopyResponse(adeleError)

#### Declaration

```
public PrintReceiptCopyResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class RequestFirmwareRequest

## Inheritance

[object](#)

RequestFirmwareRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract (WrapperName = "RequestFirmware", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class RequestFirmwareRequest
```

## Constructors

### RequestFirmwareRequest()

#### Declaration

```
public RequestFirmwareRequest ()
```

### RequestFirmwareRequest(string)

#### Declaration

```
public RequestFirmwareRequest (string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class RequestFirmwareResponse

## Inheritance

[object](#)

RequestFirmwareResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "RequestFirmwareResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class RequestFirmwareResponse
```

## Constructors

### RequestFirmwareResponse()

#### Declaration

```
public RequestFirmwareResponse()
```

### RequestFirmwareResponse(adeleError)

#### Declaration

```
public RequestFirmwareResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class RestartAEERequest

## Inheritance

[object](#)

RestartAEERequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "RestartAEE", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class RestartAEERequest
```

## Constructors

### RestartAEERequest()

#### Declaration

```
public RestartAEERequest()
```

### RestartAEERequest(string)

#### Declaration

```
public RestartAEERequest(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class RestartAEEResponse

## Inheritance

[object](#)

RestartAEEResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "RestartAEEResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class RestartAEEResponse
```

## Constructors

### RestartAEEResponse()

#### Declaration

```
public RestartAEEResponse()
```

### RestartAEEResponse(adeleError)

#### Declaration

```
public RestartAEEResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class SetUUCRequest

## Inheritance

[object](#)

SetUUCRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "SetUUC", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class SetUUCRequest
```

## Constructors

### SetUUCRequest()

#### Declaration

```
public SetUUCRequest()
```

### SetUUCRequest(string, string)

#### Declaration

```
public SetUUCRequest(string arg0, string arg1)
```

#### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```



**Field Value**

**Type Description**

[string](#)

# Class SetUUCResponse

## Inheritance

[object](#)

SetUUCResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "SetUUCResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class SetUUCResponse
```

## Constructors

### SetUUCResponse()

#### Declaration

```
public SetUUCResponse()
```

### SetUUCResponse(adeleError)

#### Declaration

```
public SetUUCResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
<a href="#">adeleError</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
<a href="#">adeleError</a>	

# Class StartComlogRequest

## Inheritance

[object](#)

StartComlogRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "StartComlog", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class StartComlogRequest
```

## Constructors

### StartComlogRequest()

#### Declaration

```
public StartComlogRequest()
```

### StartComlogRequest(string, string)

#### Declaration

```
public StartComlogRequest(string arg0, string arg1)
```

#### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

**Type Description**

[string](#)

# Class StartComlogResponse

## Inheritance

[object](#)

StartComlogResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "StartComlogResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class StartComlogResponse
```

## Constructors

### StartComlogResponse()

#### Declaration

```
public StartComlogResponse()
```

### StartComlogResponse(adeleError)

#### Declaration

```
public StartComlogResponse(adeleError @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class StartServiceModeRequest

## Inheritance

[object](#)

StartServiceModeRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "StartServiceMode", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class StartServiceModeRequest
```

## Constructors

### StartServiceModeRequest()

#### Declaration

```
public StartServiceModeRequest()
```

### StartServiceModeRequest(string)

#### Declaration

```
public StartServiceModeRequest(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

# Class StartServiceModeResponse

## Inheritance

[object](#)

StartServiceModeResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "StartServiceModeResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class StartServiceModeResponse
```

## Constructors

### StartServiceModeResponse()

#### Declaration

```
public StartServiceModeResponse()
```

### StartServiceModeResponse(adeleError)

#### Declaration

```
public StartServiceModeResponse(adeleError @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class UnblockSystemRequest

## Inheritance

[object](#)

UnblockSystemRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "UnblockSystem", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class UnblockSystemRequest
```

## Constructors

### UnblockSystemRequest()

#### Declaration

```
public UnblockSystemRequest()
```

### UnblockSystemRequest(string)

#### Declaration

```
public UnblockSystemRequest(string arg0)
```

#### Parameters

#### Type Name Description

[string](#) arg0

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)



# Class UnblockSystemResponse

## Inheritance

[object](#)

UnblockSystemResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "UnblockSystemResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class UnblockSystemResponse
```

## Constructors

### UnblockSystemResponse()

#### Declaration

```
public UnblockSystemResponse()
```

### UnblockSystemResponse(adeleError)

#### Declaration

```
public UnblockSystemResponse(adeleError @return)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

## Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class WriteCustomerDisplayRequest

## Inheritance

[object](#)

WriteCustomerDisplayRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "WriteCustomerDisplay", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class WriteCustomerDisplayRequest
```

## Constructors

### WriteCustomerDisplayRequest()

#### Declaration

```
public WriteCustomerDisplayRequest()
```

### WriteCustomerDisplayRequest(string, string)

#### Declaration

```
public WriteCustomerDisplayRequest(string arg0, string arg1)
```

#### Parameters

#### Type Name Description

[string](#) arg0

[string](#) arg1

## Fields

### arg0

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public string arg0
```

#### Field Value

#### Type Description

[string](#)

### arg1

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public string arg1
```

#### Field Value

#### Type Description

[string](#)

# Class WriteCustomerDisplayResponse

## Inheritance

[object](#)

WriteCustomerDisplayResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "WriteCustomerDisplayResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class WriteCustomerDisplayResponse
```

## Constructors

### WriteCustomerDisplayResponse()

#### Declaration

```
public WriteCustomerDisplayResponse()
```

### WriteCustomerDisplayResponse(adeleError)

#### Declaration

```
public WriteCustomerDisplayResponse(adeleError @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">adeleError</a>	return	
----------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">adeleError</a>	
----------------------------	--

# Class `adeleError`

## Inheritance

[object](#)  
`adeleError`

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class adeleError
```

## Properties

### `AdeleErrorDescription`

#### Declaration

```
public string AdeleErrorDescription { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### `AdeleErrorType`

#### Declaration

```
public errorType AdeleErrorType { get; set; }
```

#### Property Value

#### Type Description

[errorType](#)

### `AdeleErrorTypeSpecified`

#### Declaration

```
public bool AdeleErrorTypeSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### `FiscalError`

#### Declaration

```
public int FiscalError { get; set; }
```

**Property Value**

**Type Description**

[int](#)

# Class adeleInfo

## Inheritance

[object](#)  
adeleInfo

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class adeleInfo
```

## Properties

### Assigned

#### Declaration

```
public assignType Assigned { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">assignType</a>	
----------------------------	--

### AssignedSpecified

#### Declaration

```
public bool AssignedSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### CashRegisterCode

#### Declaration

```
public string CashRegisterCode { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### DocPrintPending

#### Declaration

```
public bool DocPrintPending { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**EuroMode**

**Declaration**

```
public euroMode EuroMode { get; set; }
```

**Property Value**

**Type Description**

[euroMode](#)

**EuroModeSpecified**

**Declaration**

```
public bool EuroModeSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**FreeSpace**

**Declaration**

```
public int FreeSpace { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**MaxSpace**

**Declaration**

```
public int MaxSpace { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**MiddlewareVersion**

**Declaration**

```
public string MiddlewareVersion { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## Preparation

### Declaration

```
public DateTime Preparation { get; set; }
```

### Property Value

#### Type Description

[DateTime](#)

## PreparationSpecified

### Declaration

```
public bool PreparationSpecified { get; set; }
```

### Property Value

#### Type Description

[bool](#)

## PrinterStatus

### Declaration

```
public string PrinterStatus { get; set; }
```

### Property Value

#### Type Description

[string](#)

## PrinterWork

### Declaration

```
public bool PrinterWork { get; set; }
```

### Property Value

#### Type Description

[bool](#)

## Rate

### Declaration

```
public double Rate { get; set; }
```

### Property Value

#### Type Description

[double](#)

## Registered

### Declaration

```
public bool Registered { get; set; }
```

### Property Value



## Type Description

[bool](#)

## StorageOnline

### Declaration

```
public bool StorageOnline { get; set; }
```

### Property Value

## Type Description

[bool](#)

## Switch

### Declaration

```
public DateTime Switch { get; set; }
```

### Property Value

## Type Description

[DateTime](#)

## SwitchSpecified

### Declaration

```
public bool SwitchSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## TransitionEnd

### Declaration

```
public DateTime TransitionEnd { get; set; }
```

### Property Value

## Type Description

[DateTime](#)

## TransitionEndSpecified

### Declaration

```
public bool TransitionEndSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## VAT1

### Declaration

```
public double VAT1 { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**VAT2**

**Declaration**

```
public double VAT2 { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**VAT3**

**Declaration**

```
public double VAT3 { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**VAT4**

**Declaration**

```
public double VAT4 { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**VAT5**

**Declaration**

```
public double VAT5 { get; set; }
```

**Property Value**

**Type Description**

[double](#)

# Class aeeLedAnswer

## Inheritance

[object](#)

aeeLedAnswer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class aeeLedAnswer
```

## Properties

### AdeleError

#### Declaration

```
public adeleError AdeleError { get; set; }
```

#### Property Value

Type	Description
------	-------------

[adeleError](#)

### Green

#### Declaration

```
public aeeLedState Green { get; set; }
```

#### Property Value

Type	Description
------	-------------

[aeeLedState](#)

### GreenSpecified

#### Declaration

```
public bool GreenSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

[bool](#)

### Red

#### Declaration

```
public aeeLedState Red { get; set; }
```

**Property Value**

Type	Description
<a href="#">aeeLedState</a>	

**RedSpecified**

**Declaration**

```
public bool RedSpecified { get; set; }
```

**Property Value**

Type	Description
<a href="#">bool</a>	

**Yellow**

**Declaration**

```
public aeeLedState Yellow { get; set; }
```

**Property Value**

Type	Description
<a href="#">aeeLedState</a>	

**YellowSpecified**

**Declaration**

```
public bool YellowSpecified { get; set; }
```

**Property Value**

Type	Description
<a href="#">bool</a>	

# Enum aeeLedState

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum aeeLedState
```

## Fields

Name	Description
------	-------------

BLINK	
-------	--

OFF	
-----	--

ON	
----	--

# Enum assignType

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum assignType
```

## Fields

Name	Description
Assigned	
NotAssigned	
OperataionEnded	

# Enum barcodeAlignments

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum barcodeAlignments
```

## Fields

Name	Description
------	-------------

Center	
--------	--

Left	
------	--

Right	
-------	--

# Enum barcodeHRIPositions

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum barcodeHRIPositions
```

## Fields

Name	Description
Above	
Below	
BothPlaces	
None	



# Enum barcodeTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum barcodeTypes
```

## Fields

Name	Description
CODE128	
CODE128C	
CODE39	
EAN13	
EAN8	
NONE	
UPCE	

# Class customer

## Inheritance

[object](#)

customer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class customer
```

## Properties

### AddressCity

#### Declaration

```
public string AddressCity { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### AddressHouseNumber

#### Declaration

```
public string AddressHouseNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### AddressPublicPlace

#### Declaration

```
public string AddressPublicPlace { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### AddressPublicPlaceType

#### Declaration

```
public string AddressPublicPlaceType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**AddressZip**

**Declaration**

```
public string AddressZip { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**CustomerName**

**Declaration**

```
public string CustomerName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PlateNumber**

**Declaration**

```
public string PlateNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Taxid**

**Declaration**

```
public string Taxid { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class documentAnswer

## Inheritance

[object](#)

documentAnswer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class documentAnswer
```

## Properties

### DocumentID

#### Declaration

```
public string DocumentID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Ej

#### Declaration

```
public string Ej { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Error

#### Declaration

```
public adeleError Error { get; set; }
```

#### Property Value

#### Type Description

[adeleError](#)

### InvoiceID

#### Declaration

```
public string InvoiceID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PrintingFinished**

**Declaration**

```
public bool PrintingFinished { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**PrintingId**

**Declaration**

```
public string PrintingId { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ProcessDate**

**Declaration**

```
public DateTime ProcessDate { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**ProcessDateSpecified**

**Declaration**

```
public bool ProcessDateSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**Queued**

**Declaration**

```
public bool Queued { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## QueuedSpecified

### Declaration

```
public bool QueuedSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

# Enum documentType

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum documentType
```

## Fields

Name	Description
DayOpening	
Empties	
FuelCard	
FuelCardVoid	
HealthCard	
HealthCardVoid	
Invoice	
NonFiscal	
Order	
PayIn	
PayOut	
Receipt	
Refund	
Void	

# Class drawerItem

## Inheritance

[object](#)

drawerItem

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class drawerItem
```

## Properties

### OtherName

#### Declaration

```
public string OtherName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### PaymentName

#### Declaration

```
public string PaymentName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### PaymentType

#### Declaration

```
public paymentType PaymentType { get; set; }
```

#### Property Value

Type	Description
------	-------------

[paymentType](#)

### PaymentTypeSpecified

#### Declaration



```
public bool PaymentTypeSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**Value**

**Declaration**

```
public double Value { get; set; }
```

**Property Value**

**Type Description**

[double](#)

# Enum errorType

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum errorType
```

## Fields

Name	Description
errChduBlocked	
errChduInvalidCert	
errChduNotInitialized	
errChduOffline	
errChduOpened	
errChduReInitializationNeede	
errDbError	
errDbNotEmpty	
errEkasaBlockFailed	
errEkasaCashdrawerContentCannotBeNegative	
errEkasaCashierLoginFailed	
errEkasaClosedDayRequired	
errEkasaContinueOfAceOperationFailed	
errEkasaCustomerDataInvalidOrMissing	
errEkasaDUSBFailed	
errEkasaDayCloseRequired	
errEkasaDisplayDisconnected	
errEkasaDocPrintPending	
errEkasaDocumentIsNotPayedTotally	
errEkasaDrawerOpenFailed	
errEkasaEUSBFailed	
errEkasaEndOfAceOperationFailed	
errEkasaEuroSwitchRequired	
errEkasaEuroSwitchTooEarly	
errEkasaFirmwareUpgradeFinalizationRequired	
errEkasaHealthFundDataInvalidOrMissing	
errEkasaInitializationError	
errEkasaInvalidAmount	
errEkasaInvalidChangeRate	
errEkasaInvalidCopy	
errEkasaInvalidItemName	
errEkasaInvalidItemType	
errEkasaInvalidOrMissingReason	
errEkasaInvalidOriginalDocument	
errEkasaInvalidOriginalDocumentDate	
errEkasaInvalidQuantity	
errEkasaInvalidQuantityUnit	
errEkasaInvalidUnitPrice	
errEkasaInvalidVatRate	
errEkasaItemInvalidOrMissing	
errEkasaItemTotalMustBePositive	
errEkasaItemTypeForbidden	
errEkasaMiddlewareUpdateRequired	

<b>Name</b>	<b>Description</b>
errEkasaOpenedDayRequired	
errEkasaPaymentLinesMissing	
errEkasaPaymentTotalMustBePositive	
errEkasaPersonalizationFailed	
errEkasaPingFailed	
errEkasaPrintFailed	
errEkasaRestartFailed	
errEkasaRestartNeeded	
errEkasaUCCFailed	
errEkasaUnblockFailed	
errEkasaVatCannotBeNegative	
errFileIO	
errInternalError	
errInvalidFiscalDay	
errInvalidReceiptNumber	
errMaintenanceInProgress	
errOK	
errOffline	
errPbcFailed	
errPrinterError	
errPrinterPaperInPresenter	
errPrintingIdAlreadyExists	
errPrintingIdMustBeSet	
errPrintingIdNotFound	
errRequestCompilation	
errRequestSending	
errRequestStorage	
errResponse	
errResponseInterpretation	
errSQL	
errTokenError	

# Enum euroMode

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum euroMode
```

## Fields

Name	Description
Euro	
Forint	
Preparation	
Transition	

# Enum freeLineAlignment

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum freeLineAlignment
```

## Fields

Name	Description
CenterAligned	
LeftAligned	
LineFill	
RightAligned	

# Enum freeLineFormat

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum freeLineFormat
```

## Fields

Name	Description
Bold	
DoubleHeigt	
DoubleWidth	
DoubleWidthHeight	
None	

# Enum freeLineTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum freeLineTypes
```

## Fields

Name	Description
Barcode	
FreeLineText	
Qrcode	

# Class `getDrawerContentRequest`

## Inheritance

[object](#)

`getDrawerContentRequest`

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(WrapperName = "getDrawerContent", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class getDrawerContentRequest
```

## Constructors

**`getDrawerContentRequest()`**

### Declaration

```
public getDrawerContentRequest()
```



# Class getDrawerContentResponse

## Inheritance

[object](#)

getDrawerContentResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "getDrawerContentResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class getDrawerContentResponse
```

## Constructors

### getDrawerContentResponse()

#### Declaration

```
public getDrawerContentResponse ()
```

### getDrawerContentResponse(drawerItem[])

#### Declaration

```
public getDrawerContentResponse (drawerItem[] @return)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">drawerItem[]</a>	return	
------------------------------	--------	--

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public drawerItem[] @return
```

#### Field Value

Type	Description
------	-------------

<a href="#">drawerItem[]</a>	
------------------------------	--

# Class getModemDetailsRequest

## Inheritance

[object](#)

getModemDetailsRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "getModemDetails", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class getModemDetailsRequest
```

## Constructors

**getModemDetailsRequest()**

## Declaration

```
public getModemDetailsRequest()
```

# Class getModemDetailsResponse

## Inheritance

[object](#)

getModemDetailsResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(WrapperName = "getModemDetailsResponse", WrapperNamespace = "http://service.adelehu.bbox.hu/", IsWrapped = true)]  
public class getModemDetailsResponse
```

## Constructors

### getModemDetailsResponse()

#### Declaration

```
public getModemDetailsResponse()
```

### getModemDetailsResponse(modemDetails)

#### Declaration

```
public getModemDetailsResponse(modemDetails @return)
```

#### Parameters

Type	Name	Description
<a href="#">modemDetails</a>	return	

## Fields

### return

#### Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public modemDetails @return
```

#### Field Value

Type	Description
<a href="#">modemDetails</a>	

# Class healthFundData

## Inheritance

[object](#)  
healthFundData

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class healthFundData
```

## Properties

### CustomerMembership

#### Declaration

```
public string CustomerMembership { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### HealthFundAddress

#### Declaration

```
public string HealthFundAddress { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### HealthFundCode

#### Declaration

```
public string HealthFundCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### HealthFundName

#### Declaration

```
public string HealthFundName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class identityData

## Inheritance

[object](#)  
identityData

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class identityData
```

## Properties

### Header1

#### Declaration

```
public string Header1 { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Header2

#### Declaration

```
public string Header2 { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Header3

#### Declaration

```
public string Header3 { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Header4

#### Declaration

```
public string Header4 { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Header5**

**Declaration**

```
public string Header5 { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Header6**

**Declaration**

```
public string Header6 { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Header7**

**Declaration**

```
public string Header7 { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Header8**

**Declaration**

```
public string Header8 { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class itemRow

## Inheritance

[object](#)  
itemRow

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class itemRow
```

## Properties

### VM

#### Declaration

```
public string VM { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### afa

#### Declaration

```
public int afa { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### afaAlcsoport

#### Declaration

```
public string afaAlcsoport { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cikkszam

#### Declaration



```
public string cikkszam { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**egysegar**

**Declaration**

```
public double egysegar { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**ertek**

**Declaration**

```
public double ertek { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**leiras**

**Declaration**

```
public string leiras { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**mennyiseg**

**Declaration**

```
public double mennyiseg { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**mennyisegiegyseg**

**Declaration**

```
public string mennyisegiegyseg { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## type

### Declaration

```
public int type { get; set; }
```

### Property Value

### Type Description

[int](#)

# Enum itemTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum itemTypes
```

## Fields

Name	Description
Discount	
Empties	
Item	
Loss	
NonBusinessDisocunt	
ServiceCharge	
Surcharge	

# Class modemDetails

## Inheritance

[object](#)  
modemDetails

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class modemDetails
```

## Properties

### ICCID

#### Declaration

```
public string ICCID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### IMEI

#### Declaration

```
public string IMEI { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### IMSI

#### Declaration

```
public string IMSI { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### IP

#### Declaration

```
public string IP { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cellInfo**

**Declaration**

```
public string cellInfo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cellSignalStrength**

**Declaration**

```
public int cellSignalStrength { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**conset**

**Declaration**

```
public string conset { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**lastComError**

**Declaration**

```
public string lastComError { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**lastCommunication**

**Declaration**

```
public string lastCommunication { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## **lastGSMError**

### **Declaration**

```
public string lastGSMError { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **lastSentXMLDate**

### **Declaration**

```
public DateTime lastSentXMLDate { get; set; }
```

### **Property Value**

### **Type Description**

[DateTime](#)

## **lastSentXMLDateSpecified**

### **Declaration**

```
public bool lastSentXMLDateSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **lastSentXMLNum**

### **Declaration**

```
public string lastSentXMLNum { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **openedXMLNum**

### **Declaration**

```
public string openedXMLNum { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **operator**

### **Declaration**

```
public string @operator { get; set; }
```

### **Property Value**

## Type Description

[string](#)

## version

### Declaration

```
public string version { get; set; }
```

### Property Value

## Type Description

[string](#)

# Class payment

## Inheritance

[object](#)  
payment

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class payment
```

## Properties

### Amount

#### Declaration

```
public double Amount { get; set; }
```

#### Property Value

#### Type Description

[double](#)

### ConvertedAmount

#### Declaration

```
public double ConvertedAmount { get; set; }
```

#### Property Value

#### Type Description

[double](#)

### OtherName

#### Declaration

```
public string OtherName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### PaymentName

#### Declaration



```
public string PaymentName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PaymentRate**

**Declaration**

```
public double PaymentRate { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**PaymentType**

**Declaration**

```
public paymentType PaymentType { get; set; }
```

**Property Value**

**Type Description**

[paymentType](#)

# Enum paymentType

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum paymentType
```

## Fields

Name	Description
Bankcard	
Cash	
Change	
ForeignCurrency	
Other	
Rounding	

# Class zData

## Inheritance

[object](#)

zData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Hungary.AdeleServiceHungary](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class zData
```

## Properties

### ClosureDate

#### Declaration

```
public string ClosureDate { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ClosureNumber

#### Declaration

```
public int ClosureNumber { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### ClosureNumberSpecified

#### Declaration

```
public bool ClosureNumberSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### GrandTotal

#### Declaration

```
public double GrandTotal { get; set; }
```

**Property Value**

**Type Description**

[double](#)

**NumberOfEmptiesRefundVouchers**

**Declaration**

```
public int NumberOfEmptiesRefundVouchers { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**NumberOfEmptiesRefundVouchersSpecified**

**Declaration**

```
public bool NumberOfEmptiesRefundVouchersSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**NumberOfReceipts**

**Declaration**

```
public int NumberOfReceipts { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**NumberOfReceiptsSpecified**

**Declaration**

```
public bool NumberOfReceiptsSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**NumberOfRefundVouchers**

**Declaration**

```
public int NumberOfRefundVouchers { get; set; }
```

**Property Value**

**Type Description**

[int](#)

## NumberOfRefundVouchersSpecified

### Declaration

```
public bool NumberOfRefundVouchersSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## NumberOfSimplifiedInvoices

### Declaration

```
public int NumberOfSimplifiedInvoices { get; set; }
```

### Property Value

### Type Description

[int](#)

## NumberOfSimplifiedInvoicesSpecified

### Declaration

```
public bool NumberOfSimplifiedInvoicesSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## NumberOfVoidVouchers

### Declaration

```
public int NumberOfVoidVouchers { get; set; }
```

### Property Value

### Type Description

[int](#)

## NumberOfVoidVouchersSpecified

### Declaration

```
public bool NumberOfVoidVouchersSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## Time

### Declaration

```
public string Time { get; set; }
```

### Property Value

## Type Description

[string](#)

## VATA

### Declaration

```
public double VATA { get; set; }
```

### Property Value

## Type Description

[double](#)

## VATB

### Declaration

```
public double VATB { get; set; }
```

### Property Value

## Type Description

[double](#)

## VATC

### Declaration

```
public double VATC { get; set; }
```

### Property Value

## Type Description

[double](#)

## VATD

### Declaration

```
public double VATD { get; set; }
```

### Property Value

## Type Description

[double](#)

## VATE

### Declaration

```
public double VATE { get; set; }
```

### Property Value

## Type Description

[double](#)

# Namespace **RetailForce.Fiscalisation.Implementation.Italy**

## Classes

### [ClientConfiguration](#)

The italian country specific client configuration.

### [FiscalResponseItaly](#)

Fiscal response for italy.

### [ItalianFiscalProperties](#)

Properties for Italy.

### [ItalianFiscalisationRequiredAttribute](#)

Attribute for properties which are required for italian fiscalisation.

### [ItalianValidation](#)

### [TrustedFiscalModuleItaly](#)

Country implementation for Italy.

## Enums

### [FiscalisationType](#)

The type of fiscalisation for italy.

# Class ClientConfiguration

The italian country specific client configuration.

## Inheritance

### [object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```



## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## FiscalisationType

The type of fiscalisation (rt server/printer). This time only printer is supported.

### Declaration

```
public FiscalisationType FiscalisationType { get; set; }
```

## Property Value

Type	Description
<a href="#">FiscalisationType</a>	

## PrinterConfiguration

The configuration for the printer if fiscalisation is type printer.

### Declaration

```
public PrinterConfiguration PrinterConfiguration { get; set; }
```

## Property Value

Type	Description
<a href="#">PrinterConfiguration</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### Preserve Values(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

## Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

#### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

#### Implements

[IFiscalImplementationConfiguration](#)

# Class FiscalResponseItaly

Fiscal response for italy.

## Inheritance

[object](#)

FiscalResponseItaly

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiscalResponseItaly
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

### GetFiscalResponseItaly(int, List<DocumentTaxPosition>, long, string, string, string, string)

Returns the fiscal response for Italy out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseItaly(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, string
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for Italy.

# Enum FiscalisationType

The type of fiscalisation for italy.

Namespace: [RetailForce.Fiscalisation.Implementation.Italy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum FiscalisationType
```

## Remarks

At the moment only printer fiscalisation is supported.

## Fields

Name	Description
------	-------------

Printer	
---------	--

# Class ItalianFiscalProperties

Properties for Italy.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>](#)

ItalianFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ItalianFiscalProperties : FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

## Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

#### Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## EntityParameters

Returns a list of optional and mandatory entity parameters.

### Declaration

```
public override List<EntityParameterInfo> EntityParameters { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;EntityParameterInfo&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.EntityParameters](#)

## Remarks

Entity parameters are parameters to master data entities (distributor, organization, company, store, terminal) which are necessary for fiscal client configuration.

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.FiscalLineInterface](#)

## GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

### Property Value

### Type Description

[string](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

### Remarks

Return empty string if there is not cloud

## MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

### Property Value

### Type Description

[int](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

## MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

## MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.



#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

#### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnAndSaleBehavior](#)

#### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

## ReturnReferenceBehavior **Description**

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

## **SupportedBusinessTransactionTypes**

Returns a list of all supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

## **SupportedDocumentTypes**

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

## **SupportedPaymentTypes**

Returns a list of all supported payment types.

### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

## **SupportedVatDefinitions**

Returns the supported vat definitions for this country.

### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

### Property Value

Type	Description
------	-------------

[ReadOnlyCollection<Vat>](#)

### Overrides

## SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

### Declaration

```
public override bool SurchargesPossible { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.SurchargesPossible](#)

## TaxFreeVat

The tax free vat class for this country.

### Declaration

```
public override Vat TaxFreeVat { get; }
```

### Property Value

### Type Description

[Vat](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
public override bool TrainingModeAllowed { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<ItalianFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class ItalianFiscalisationRequiredAttribute

Attribute for properties which are required for italian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
[ItalianFiscalisationRequiredAttribute](#)

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Italy](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class ItalianFiscalisationRequiredAttribute : RequiredAttribute
```

# Class ItalianValidation

## Inheritance

[object](#)

ItalianValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class ItalianValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

# Class TrustedFiscalModuleItaly

Country implementation for Italy.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>](#)  
[TrustedFiscalModuleItaly](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleItaly : TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>, IFiscal
```

## Constructors

**TrustedFiscalModuleItaly(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleItaly(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, Clo
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields



## ONLYPRINTERFISCALISATIONSUPPORTED

### Declaration

```
public const string ONLYPRINTERFISCALISATIONSUPPORTED = "Other fiscalisation type then printer not supported."
```

### Field Value

#### Type Description

[string](#)

### Properties

#### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.FiscalClientStatus](#)

### Methods

#### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CancelDocument\(Document\)](#)

#### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

#### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) endDocument A document of type [NullReceipt](#) representing the end document of the fiscalisation.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.DecommissionClient\(Document\)](#)

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
------	-------------

[string](#) The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) startDocument A document of type [NullReceipt](#) representing the starting document of the fiscalisation.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

[string](#) serviceUrl The service url of the other fiscal system

[string](#) param1 Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalsationRequiredAttribute, ItalianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalsationRequiredAttribute, ItalianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
public override void OpenDrawer(User user)
```

#### Parameters

Type	Name	Description
<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalsationRequiredAttribute, ItalianFiscalProperties>.OpenDrawer\(User\)](#)

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to store.
--------------------------	----------	------------------------

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.
--------------------------------	--

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	
--------------------------	----------	--

<a href="#">bool</a>	reprintDocument	
----------------------	-----------------	--

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;DocumentValidationError&gt;</a>	
---	--

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Italy.Printer

## Classes

### [PrinterBase](#)

Abstract class for printer implementation.

### [PrinterConfiguration](#)

Class for printer configuration in Italy.

### [PrinterDriverInfo](#)

Printer driver infos for each model.

### [PrinterResponse](#)

## Enums

### [PrinterModel](#)

The model of the printer.

# Class PrinterBase

Abstract class for printer implementation.

## Inheritance

[object](#)  
PrinterBase  
[EpsonPrinter](#)

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class PrinterBase
```

## Constructors

### PrinterBase(ILogger, PrinterConfiguration)

Constructor.

#### Declaration

```
public PrinterBase(ILogger logger, PrinterConfiguration printerConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	Reference to logger.
<a href="#">PrinterConfiguration</a>	printerConfiguration	The printer configuration for this Epson printer.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>printerConfiguration</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>logger</code> is set to null.

## Fields

### Logger

#### Declaration

```
protected ILogger Logger
```

## Field Value

### Type Description

[ILogger](#)

## PrinterConfiguration

### Declaration

```
protected PrinterConfiguration PrinterConfiguration
```

## Field Value

### Type Description

[PrinterConfiguration](#)

## Methods

### BookCashCheck(Document)

Performs an end of day (X-report) on the printer.

### Declaration

```
public abstract PrinterResponse BookCashCheck(Document document)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document containing the z-report / end of day document.
--------------------------	----------	---

### Returns

Type	Description
------	-------------

<a href="#">PrinterResponse</a>	The response from the printer.
---------------------------------	--------------------------------

### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.
---------------------------------------	---

### BookEndOfDay(Document)

Performs an end of day (Z-report) on the printer.

### Declaration

```
public abstract PrinterResponse BookEndOfDay(Document document)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document containing the z-report / end of day document.
--------------------------	----------	---

### Returns

Type	Description
------	-------------

<a href="#">PrinterResponse</a>	The response from the printer.
---------------------------------	--------------------------------

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.
---------------------------------------	---

### BookSalesReceipt(Document)

Prints a sales receipt to the printer.

#### Declaration

```
public abstract PrinterResponse BookSalesReceipt(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	<code>document</code>	The document to print to the printer.
--------------------------	-----------------------	---------------------------------------

#### Returns

Type	Description
------	-------------

<a href="#">PrinterResponse</a>	The response from the printer.
---------------------------------	--------------------------------

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.
---------------------------------------	---

### GetPrinterDriverInfos()

Returns the printer driver infos.

#### Declaration

```
public static List<PrinterDriverInfo> GetPrinterDriverInfos()
```

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;PrinterDriverInfo&gt;</a>	The printer driver infos.
---	---------------------------

### OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

#### Declaration

```
public abstract void OpenDrawer(User user)
```



## Parameters

Type	Name	Description
------	------	-------------

<a href="#">User</a>	user	The user to open the drawer. Mandatory in some countries (e.g. Italy).
----------------------	------	--

# Class PrinterConfiguration

Class for printer configuration in Italy.

## Inheritance

[object](#)

PrinterConfiguration

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PrinterConfiguration
```

## Properties

### PrinterModel

The model of the printer which should be connected.

#### Declaration

```
public PrinterModel PrinterModel { get; set; }
```

#### Property Value

Type	Description
------	-------------

[PrinterModel](#)

### PrinterParameter

The device driver parameters.

#### Declaration

```
public virtual List<Parameter> PrinterParameter { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<Parameter>](#)

# Class PrinterDriverInfo

Printer driver infos for each model.

## Inheritance

[object](#)

PrinterDriverInfo

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PrinterDriverInfo
```

## Properties

### Parameters

Possible parameters for the printer model. Possible parameters for the printer model.

### Declaration

```
public List<ParameterInfo> Parameters { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;ParameterInfo&gt;</a>	

### PrinterModel

The model for which the printer driver infos are stored.

### Declaration

```
public PrinterModel PrinterModel { get; set; }
```

### Property Value

Type	Description
<a href="#">PrinterModel</a>	

# Enum PrinterModel

The model of the printer.

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum PrinterModel
```

## Fields

Name	Description
Epson_FP81	
Epson_FP81II	
Epson_FP90II	
Epson_FP90III	

# Class PrinterResponse

## Inheritance

[object](#)  
PrinterResponse

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PrinterResponse
```

## Properties

### ErrorMessage

#### Declaration

```
public string ErrorMessage { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### FiscalReceiptAmount

#### Declaration

```
public decimal FiscalReceiptAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### FiscalReceiptDateTime

#### Declaration

```
public DateTime FiscalReceiptDateTime { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### FiscalReceiptNumber

#### Declaration

```
public int FiscalReceiptNumber { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**Success**

**Declaration**

```
public bool Success { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Namespace RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson

## Classes

### [EpsonPrinter](#)

Implementation for fiscal printer of epson.

### [EpsonPrinterResponse](#)

Response class for epson printer in italy.

# Class EpsonPrinter

Implementation for fiscal printer of Epson.

## Inheritance

[object](#)  
[PrinterBase](#)  
EpsonPrinter

## Inherited Members

[PrinterBase.PrinterConfiguration](#)  
[PrinterBase.Logger](#)  
[PrinterBase.GetPrinterDriverInfos\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class EpsonPrinter : PrinterBase
```

## Constructors

**EpsonPrinter(ILogger, PrinterConfiguration, string, string, bool)**

### Declaration

```
public EpsonPrinter(ILogger logger, PrinterConfiguration printerConfiguration, string debugPath, string ipAddress = null, bool printItemSerial = false)
```

### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">PrinterConfiguration</a>	printerConfiguration	
<a href="#">string</a>	debugPath	
<a href="#">string</a>	ipAddress	
<a href="#">bool</a>	printItemSerial	

## Fields

### EpsonPrinterIpParameterName

The parameter name of the printer driver configuration.

#### Declaration

```
public const string EpsonPrinterIpParameterName = "ipaddress"
```

#### Field Value

#### Type Description

[string](#)

### EpsonPrinterPrintItemSerialParameterName

The parameter name of the printer to print serial to the receipt.

#### Declaration

```
public const string EpsonPrinterPrintItemSerialParameterName = "printSerial"
```

#### Field Value

#### Type Description

[string](#)

### PaymentTypeMapping

Payment type mapping for Epson printer.

#### Declaration

```
public static readonly ReadOnlyDictionary<PaymentType, (byte, byte)> PaymentTypeMapping
```

#### Field Value



Type	Description
<a href="#">ReadOnlyDictionary&lt;PaymentType, (byte, byte)&gt;</a>	

## Methods

### BookCashCheck(Document)

Performs an end of day (X-report) on the printer.

#### Declaration

```
public override PrinterResponse BookCashCheck(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document containing the z-report / end of day document.

#### Returns

Type	Description
<a href="#">PrinterResponse</a>	The response from the printer.

#### Overrides

[PrinterBase.BookCashCheck\(Document\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.

### BookEndOfDay(Document)

Performs an end of day (Z-report) on the printer.

#### Declaration

```
public override PrinterResponse BookEndOfDay(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document containing the z-report / end of day document.

#### Returns

Type	Description
<a href="#">PrinterResponse</a>	The response from the printer.

#### Overrides

[PrinterBase.BookEndOfDay\(Document\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>document</code> is set to null.

### BookSalesReceipt(Document)

Prints a sales receipt to the printer.

#### Declaration

```
public override PrinterResponse BookSalesReceipt(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to print to the printer.

#### Returns

Type	Description
------	-------------

[PrinterResponse](#) The response from the printer.

**Overrides**

[PrinterBase.BookSalesReceipt\(Document\)](#)

**Exceptions**

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `document` is set to null.

**OpenDrawer(User)**

Opens a drawer if drawer is attached to fiscal printer.

**Declaration**

```
public override void OpenDrawer(User user)
```

**Parameters**

Type Name	Description
-----------	-------------

[User](#) user The user to open the drawer. Mandatory in some countries (e.g. Italy).

**Overrides**

[PrinterBase.OpenDrawer\(User\)](#)

# Class EpsonPrinterResponse

Response class for epson printer in italy.

## Inheritance

[object](#)

EpsonPrinterResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class EpsonPrinterResponse
```

## Properties

### AdditionalInfo

Additional info elements (for instance containing the ticket number of the printer).

#### Declaration

```
public Dictionary<string, string> AdditionalInfo { get; set; }
```

#### Property Value

Type	Description
<a href="#">Dictionary&lt;string, string&gt;</a>	

#### Remarks

Will be done and filled by code.

### Code

Additional error code information; in case of success empty.

#### Declaration

```
public string Code { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Status

An additional status for the response.

#### Declaration

```
public int Status { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**Success**

True if the request was successful; otherwise false.

**Declaration**

```
public bool Success { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Namespace RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema

## Classes

[EFTPOSDailyClosure](#)

[addDevice](#)

[area](#)

[authorizeSales](#)

[barcode](#)

[beginFiscalDocument](#)

[beginFiscalReceipt](#)

[beginNonFiscal](#)

[beginTicket](#)

[beginTraining](#)

[clearText](#)

[clearTextBoxOfficeTickets](#)

[command](#)

[cut](#)

[directIO](#)

[direction](#)

[displayText](#)

[displayTextBoxOfficeTickets](#)

[endFiscalDocument](#)

[endFiscalReceipt](#)

[endNonFiscal](#)

[endTicket](#)

[endTraining](#)

[enterTicket](#)

[eposprint](#)

[exitTicket](#)

[feed](#)

[fpMateConfiguration](#)

[getDate](#)

[hline](#)

[image](#)

[line](#)

[logo](#)

[openDrawer](#)

[openDrawerBoxOffice Tickets](#)

[page](#)

[position](#)

[printBarCode](#)

[printBarCodeBoxOffice Ticket](#)

[printDuplicateReceipt](#)

[printFiscalDocumentLine](#)

[printGraphicCoupon](#)

[printNormal](#)

[printRecCash](#)

[printRecItemAdjustment](#)

[printRecItemAdjustmentVoid](#)

[printRecItemDirectInvoice](#)

[printRecItemFiscalReceipt](#)

[printRecItemVoidDirectInvoice](#)

[printRecItemVoidFiscalReceipt](#)

[printRecMessageFiscal](#)

[printRecMessageInvoice](#)

[printRecMessageNonFiscal](#)

[printRecRefundDirectInvoice](#)

[printRecRefundFiscalReceipt](#)

[printRecRefundVoid](#)

[printRecSubtotal](#)

[printRecSubtotalAdjustVoid](#)

[printRecSubtotalAdjustmentDirectInvoice](#)

[printRecSubtotalAdjustmentFiscalReceipt](#)

[printRecTotalDirectInvoice](#)

[printRecTotalFiscalReceipt](#)

[printRecVoid](#)

[printTicket](#)

[printTicketVoid](#)

[printXReport](#)

[printXZReport](#)

[printZReport](#)

[printerCommand](#)

[printerCommands](#)

[printerFiscalDocument](#)

[printerFiscalReceipt](#)

[printerFiscalReport](#)

[printerNonFiscal](#)

[printerTicket](#)

[pulse](#)

[queryPrintContentByDate](#)

[queryPrintContentByNumbers](#)

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[rectangle](#)

[resetPrinter](#)

[response](#)

[saveDevices](#)

[setDate](#)

[setLogoCommand](#)

[setLogoNonFiscal](#)

[sound](#)

[symbol](#)

[text](#)

[vlinebegin](#)

[vlineend](#)

**Enums**

[ItemChoiceType](#)

[align](#)

[barcodehri](#)

[barcodetype](#)

[clearEFTPOSBufferOptions](#)

[codeTypes](#)

[color](#)

[cuttype](#)

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[directions](#)

[documentTypes](#)

[font](#)

[fonts](#)

[forms](#)

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[linestyle](#)

[logoLocationOptions](#)

[logoOptions](#)

[options](#)

[pagedir](#)

[pulsedrawer](#)

[pulsetime](#)

[qRCodeAlignments](#)

[qRCodeDataTypes](#)

[qRCodeErrorCorrections](#)

[soundpattern](#)

[statusTypes](#)

[symbollevel](#)

[symboltype](#)

[textTypes](#)



# Class EFTPOSDailyClosure

## Inheritance

[object](#)

EFTPOSDailyClosure

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class EFTPOSDailyClosure
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### registerID

#### Declaration

```
public string registerID { get; set; }
```

#### Property Value

### Type Description

[string](#)

### terminalID

#### Declaration

```
public string terminalID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Enum ItemChoiceType

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemChoiceType
```

## Fields

Name	Description
EFTPOSDailyClosure	
EFTPOSGetCurrentTotal	
authorizeSales	
beginTraining	
clearText	
directIO	
displayText	
endTraining	
getDate	
openDrawer	
printContentByDate	
printContentByNumbers	
printDuplicateReceipt	
printRecCash	
printRecVoid	
queryContentByDate	
queryContentByNumbers	
queryPrinterStatus	
resetPrinter	
setDate	
setLogo	

# Class addDevice

## Inheritance

[object](#)  
addDevice

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class addDevice
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### deviceId

#### Declaration

```
public string deviceId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### deviceIp

#### Declaration

```
public string deviceIp { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### deviceModel

#### Declaration

```
public string deviceModel { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**deviceRetry**

**Declaration**

```
public uint deviceRetry { get; set; }
```

**Property Value**

**Type Description**

[uint](#)

**deviceType**

**Declaration**

```
public deviceTypes deviceType { get; set; }
```

**Property Value**

**Type Description**

[deviceTypes](#)

# Enum align

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum align
```

## Fields

### Name Description

center

left

right

# Class area

## Inheritance

[object](#)  
area

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class area
```

## Properties

### height

#### Declaration

```
public ushort height { get; set; }
```

#### Property Value

#### Type Description

[ushort](#)

### width

#### Declaration

```
public ushort width { get; set; }
```

#### Property Value

#### Type Description

[ushort](#)

### x

#### Declaration

```
public ushort x { get; set; }
```

#### Property Value

#### Type Description

[ushort](#)

### y

#### Declaration

```
public ushort y { get; set; }
```

**Property Value**

**Type Description**

[ushort](#)



# Class authorizeSales

## Inheritance

[object](#)

authorizeSales

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class authorizeSales
```

## Properties

### amount

#### Declaration

```
public string amount { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class barcode

## Inheritance

[object](#)  
barcode

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class barcode
```

## Properties

### Value

#### Declaration

```
public string Value { get; set; }
```

#### Property Value

### Type Description

[string](#)

### align

#### Declaration

```
public align align { get; set; }
```

#### Property Value

### Type Description

[align](#)

### alignSpecified

#### Declaration

```
public bool alignSpecified { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### font

#### Declaration

```
public font font { get; set; }
```

**Property Value**

**Type Description**

[font](#)

**fontSpecified**

**Declaration**

```
public bool fontSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**height**

**Declaration**

```
public byte height { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**heightSpecified**

**Declaration**

```
public bool heightSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**hri**

**Declaration**

```
public barcodehri hri { get; set; }
```

**Property Value**

**Type Description**

[barcodehri](#)

**hriSpecified**

**Declaration**

```
public bool hriSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## **rotate**

### **Declaration**

```
public bool rotate { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **rotateSpecified**

### **Declaration**

```
public bool rotateSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **type**

### **Declaration**

```
public barcodetype type { get; set; }
```

### **Property Value**

### **Type Description**

[barcodetype](#)

## **width**

### **Declaration**

```
public byte width { get; set; }
```

### **Property Value**

### **Type Description**

[byte](#)

## **widthSpecified**

### **Declaration**

```
public bool widthSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

# Enum barcodehri

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum barcodehri
```

## Fields

### Name Description

above  
below  
both  
none

# Enum barcodetype

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum barcodetype
```

## Fields

Name	Description
codabar	
code128	
code39	
code93	
ean13	
ean8	
gs1_128	
gs1_databar_expanded	
gs1_databar_limited	
gs1_databar_omnidirectional	
gs1_databar_truncated	
iff	
jan13	
jan8	
upc_a	
upc_e	

# Class beginFiscalDocument

## Inheritance

[object](#)

beginFiscalDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class beginFiscalDocument
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### documentAmount

#### Declaration

```
public string documentAmount { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### documentNumber

#### Declaration

```
public uint documentNumber { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### documentType

#### Declaration

```
public documentTypes documentType { get; set; }
```

**Property Value**

Type	Description
<a href="#">documentTypes</a>	

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)



# Class beginFiscalReceipt

## Inheritance

[object](#)

beginFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class beginFiscalReceipt
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class beginNonFiscal

## Inheritance

[object](#)

beginNonFiscal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class beginNonFiscal
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class beginTicket

## Inheritance

[object](#)

beginTicket

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class beginTicket
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### controlCode

#### Declaration

```
public uint controlCode { get; set; }
```

#### Property Value

### Type Description

[uint](#)

### randomNum

#### Declaration

```
public uint randomNum { get; set; }
```

#### Property Value

### Type Description

[uint](#)

# Class beginTraining

## Inheritance

[object](#)  
beginTraining

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class beginTraining
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Enum clearEFTPOSBufferOptions

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum clearEFTPOSBufferOptions
```

## Fields

### Name Description

Item0

Item1

# Class clearText

## Inheritance

[object](#)  
clearText

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class clearText
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class clearTextBoxOfficeTickets

## Inheritance

[object](#)

clearTextBoxOfficeTickets

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class clearTextBoxOfficeTickets
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Enum codeTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum codeTypes
```

## Fields

Name	Description
CODABAR	
CODE128	
CODE39	
CODE93	
EAN13	
EAN8	
ITF	
QRCODE1	
QRCODE2	
UPCA	
UPCB	



# Enum color

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum color
```

## Fields

Name	Description
------	-------------

color_1	
color_2	
color_3	
color_4	
none	

# Class command

## Inheritance

[object](#)  
command

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class command
```

## Properties

### Value

#### Declaration

```
public byte[] Value { get; set; }
```

#### Property Value

### Type Description

[byte](#)[]

# Class cut

## Inheritance

[object](#)

cut

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class cut
```

## Constructors

**cut()**

### Declaration

```
public cut()
```

## Properties

**type**

### Declaration

```
public cuttype type { get; set; }
```

### Property Value

## Type Description

[cuttype](#)

# Enum cuttype

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum cuttype
```

## Fields

Name	Description
------	-------------

feed	
no_feed	
reserve	

# Enum deviceTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum deviceTypes
```

## Fields

Name	Description
fpPrinter	
tmPrinter	

# Class directIO

## Inheritance

[object](#)  
directIO

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class directIO
```

## Properties

### command

#### Declaration

```
public string command { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### data

#### Declaration

```
public string data { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### timeout

#### Declaration

```
public uint timeout { get; set; }
```

**Property Value**

**Type Description**

[uint](#)

**timeoutSpecified**

**Declaration**

```
public bool timeoutSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class direction

## Inheritance

[object](#)  
direction

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class direction
```

## Properties

### dir

#### Declaration

```
public pagedir dir { get; set; }
```

#### Property Value

### Type Description

[pagedir](#)



# Enum directions

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum directions
```

## Fields

### Name Description

in  
out

# Class displayText

## Inheritance

[object](#)  
displayText

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class displayText
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### data

#### Declaration

```
public string data { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class displayTextBoxOfficeTickets

## Inheritance

[object](#)

displayTextBoxOfficeTickets

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class displayTextBoxOfficeTickets
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### data

#### Declaration

```
public string data { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Enum documentTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum documentTypes
```

## Fields

Name	Description
directInvoice	
freeInvoice	
lastReceiptInvoice	
receiptBasedFreeInvoice	

# Class endFiscalDocument

## Inheritance

[object](#)  
endFiscalDocument

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class endFiscalDocument
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operationType

#### Declaration

```
public byte operationType { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class endFiscalReceipt

## Inheritance

[object](#)  
endFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class endFiscalReceipt
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class endNonFiscal

## Inheritance

[object](#)  
endNonFiscal

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class endNonFiscal
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class endTicket

## Inheritance

[object](#)  
endTicket

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class endTicket
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### controlCode

#### Declaration

```
public uint controlCode { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### randomNum

#### Declaration

```
public uint randomNum { get; set; }
```

#### Property Value

#### Type Description

[uint](#)



# Class endTraining

## Inheritance

[object](#)  
endTraining

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class endTraining
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class enterTicket

## Inheritance

[object](#)  
enterTicket

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class enterTicket
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### controlCode

#### Declaration

```
public uint controlCode { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### randomNum

#### Declaration

```
public uint randomNum { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

# Class eposprint

## Inheritance

[object](#)  
eposprint

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class eposprint
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

# Class exitTicket

## Inheritance

[object](#)  
exitTicket

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class exitTicket
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### controlCode

#### Declaration

```
public uint controlCode { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### randomNum

#### Declaration

```
public uint randomNum { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

# Class feed

## Inheritance

[object](#)  
feed

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class feed
```

## Properties

### line

#### Declaration

```
public byte line { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### lineSpecified

#### Declaration

```
public bool lineSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### linespc

#### Declaration

```
public byte linespc { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### linespcSpecified

#### Declaration

```
public bool linespcSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**unit**

**Declaration**

```
public byte unit { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**unitSpecified**

**Declaration**

```
public bool unitSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Enum font

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum font
```

## Fields

Name	Description
font_a	
font_b	
font_c	
special_a	
special_b	

# Enum fonts

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum fonts
```

## Fields

### Name Description

Item1

Item2

Item3

Item4



# Enum forms

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum forms
```

## Fields

Name	Description
------	-------------

cash	
check	
cheque	

# Class fpMateConfiguration

## Inheritance

[object](#)  
fpMateConfiguration

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class fpMateConfiguration
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

#### Type Description

[object\[\]](#)

# Class getDate

## Inheritance

[object](#)  
getDate

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class getDate
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Enum graphicFormats

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum graphicFormats
```

## Fields

### Name Description

B  
R

# Enum hRIFonts

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum hRIFonts
```

## Fields

Name	Description
------	-------------

A	
B	
C	

# Enum hRIPositions

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum hRIPositions
```

## Fields

### Name Description

Item0

Item1

Item2

Item3

# Class hline

## Inheritance

[object](#)

hline

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class hline
```

## Constructors

### hline()

#### Declaration

```
public hline()
```

## Properties

### style

#### Declaration

```
public linestyle style { get; set; }
```

#### Property Value

#### Type Description

[linestyle](#)

### x1

#### Declaration

```
public ushort x1 { get; set; }
```

#### Property Value

#### Type Description

[ushort](#)

### x2

#### Declaration

```
public ushort x2 { get; set; }
```

#### Property Value

**Type Description**

[ushort](#)



# Class image

## Inheritance

[object](#)  
image

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class image
```

## Constructors

### image()

#### Declaration

```
public image()
```

## Properties

### Value

#### Declaration

```
public byte[] Value { get; set; }
```

#### Property Value

### Type Description

[byte\[\]](#)

### align

#### Declaration

```
public align align { get; set; }
```

#### Property Value

### Type Description

[align](#)

### alignSpecified

#### Declaration

```
public bool alignSpecified { get; set; }
```

#### Property Value

## Type Description

[bool](#)

## color

### Declaration

```
public color color { get; set; }
```

### Property Value

## Type Description

[color](#)

## height

### Declaration

```
public ushort height { get; set; }
```

### Property Value

## Type Description

[ushort](#)

## width

### Declaration

```
public ushort width { get; set; }
```

### Property Value

## Type Description

[ushort](#)

# Class line

## Inheritance

[object](#)  
line

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class line
```

## Constructors

**line()**

### Declaration

```
public line()
```

## Properties

**style**

### Declaration

```
public linestyle style { get; set; }
```

### Property Value

#### Type Description

[linestyle](#)

**x1**

### Declaration

```
public ushort x1 { get; set; }
```

### Property Value

#### Type Description

[ushort](#)

**x2**

### Declaration

```
public ushort x2 { get; set; }
```

### Property Value

## Type Description

[ushort](#)

**y1**

### Declaration

```
public ushort y1 { get; set; }
```

### Property Value

## Type Description

[ushort](#)

**y2**

### Declaration

```
public ushort y2 { get; set; }
```

### Property Value

## Type Description

[ushort](#)

# Enum linestyle

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum linestyle
```

## Fields

Name	Description
medium	
medium_double	
thick	
thick_double	
thin	
thin_double	

# Class logo

## Inheritance

[object](#)  
logo

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class logo
```

## Properties

### align

#### Declaration

```
public align align { get; set; }
```

#### Property Value

#### Type Description

[align](#)

### alignSpecified

#### Declaration

```
public bool alignSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### key1

#### Declaration

```
public byte key1 { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### key2

#### Declaration

```
public byte key2 { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Enum logoLocationOptions

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum logoLocationOptions
```

## Fields

Name	Description
------	-------------

Item0	
-------	--

Item1	
-------	--

Item2	
-------	--

Item3	
-------	--

Item4	
-------	--



# Enum logoOptions

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum logoOptions
```

## Fields

### Name Description

Item0

Item1

Item2

# Class openDrawer

## Inheritance

[object](#)  
openDrawer

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class openDrawer
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class openDrawerBoxOfficeTickets

## Inheritance

[object](#)

openDrawerBoxOfficeTickets

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class openDrawerBoxOfficeTickets
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Enum options

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum options
```

## Fields

### Name Description

Item0

Item1

Item2

# Class page

## Inheritance

[object](#)  
page

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class page
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

# Enum pagedir

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum pagedir
```

## Fields

Name	Description
bottom_to_top	
left_to_right	
right_to_left	
top_to_bottom	

# Class position

## Inheritance

[object](#)  
position

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class position
```

## Properties

**x**

### Declaration

```
public ushort x { get; set; }
```

### Property Value

#### Type Description

[ushort](#)

**y**

### Declaration

```
public ushort y { get; set; }
```

### Property Value

#### Type Description

[ushort](#)

# Class printBarcode

## Inheritance

[object](#)  
printBarcode

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printBarcode
```

## Properties

### code

#### Declaration

```
public string code { get; set; }
```

#### Property Value

### Type Description

[string](#)

### codeType

#### Declaration

```
public codeTypes codeType { get; set; }
```

#### Property Value

Type	Description
------	-------------

[codeTypes](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### hRIFont

#### Declaration



```
public hRIFonts hRIFont { get; set; }
```

**Property Value**

**Type Description**

[hRIFonts](#)

**hRIFontSpecified**

**Declaration**

```
public bool hRIFontSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**hRIPosition**

**Declaration**

```
public hRIPositions hRIPosition { get; set; }
```

**Property Value**

**Type Description**

[hRIPositions](#)

**hRIPositionSpecified**

**Declaration**

```
public bool hRIPositionSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**height**

**Declaration**

```
public byte height { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**heightSpecified**

**Declaration**

```
public bool heightSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## operator

### Declaration

```
public byte @operator { get; set; }
```

### Property Value

### Type Description

[byte](#)

## position

### Declaration

```
public uint position { get; set; }
```

### Property Value

### Type Description

[uint](#)

## positionSpecified

### Declaration

```
public bool positionSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## qRCodeAlignment

### Declaration

```
public qRCodeAlignments qRCodeAlignment { get; set; }
```

### Property Value

Type	Description
------	-------------

[qRCodeAlignments](#)

## qRCodeAlignmentSpecified

### Declaration

```
public bool qRCodeAlignmentSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## qRCodeDataType

### Declaration

```
public qRCodeDataTypes qRCodeDataType { get; set; }
```

### Property Value

Type	Description
------	-------------

[qRCodeDataTypes](#)

### qRCodeDataTypeSpecified

#### Declaration

```
public bool qRCodeDataTypeSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### qRCodeErrorCorrection

#### Declaration

```
public qRCodeErrorCorrections qRCodeErrorCorrection { get; set; }
```

#### Property Value

Type	Description
------	-------------

[qRCodeErrorCorrections](#)

### qRCodeErrorCorrectionSpecified

#### Declaration

```
public bool qRCodeErrorCorrectionSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### qRCodeSize

#### Declaration

```
public byte qRCodeSize { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### qRCodeSizeSpecified

#### Declaration

```
public bool qRCodeSizeSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### width

#### Declaration

```
public byte width { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**widthSpecified**

**Declaration**

```
public bool widthSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class printBarcodeBoxOfficeTicket

## Inheritance

[object](#)

printBarcodeBoxOfficeTicket

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printBarcodeBoxOfficeTicket
```

## Properties

### code

#### Declaration

```
public string code { get; set; }
```

#### Property Value

### Type Description

[string](#)

### codeType

#### Declaration

```
public codeTypes codeType { get; set; }
```

#### Property Value

Type	Description
------	-------------

[codeTypes](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### hRIFont

#### Declaration

```
public hRIFonts hRIFont { get; set; }
```

**Property Value**

**Type Description**

[hRIFonts](#)

**hRIFontSpecified**

**Declaration**

```
public bool hRIFontSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**hRIPosition**

**Declaration**

```
public hRIPositions hRIPosition { get; set; }
```

**Property Value**

**Type Description**

[hRIPositions](#)

**hRIPositionSpecified**

**Declaration**

```
public bool hRIPositionSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**height**

**Declaration**

```
public byte height { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**heightSpecified**

**Declaration**

```
public bool heightSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## position

### Declaration

```
public uint position { get; set; }
```

### Property Value

### Type Description

[uint](#)

## positionSpecified

### Declaration

```
public bool positionSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## qRCodeAlignment

### Declaration

```
public qRCodeAlignments qRCodeAlignment { get; set; }
```

### Property Value

Type	Description
<a href="#">qRCodeAlignments</a>	

## qRCodeAlignmentSpecified

### Declaration

```
public bool qRCodeAlignmentSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## qRCodeDataType

### Declaration

```
public qRCodeDataTypes qRCodeDataType { get; set; }
```

### Property Value

Type	Description
<a href="#">qRCodeDataTypes</a>	

## qRCodeDataTypeSpecified

### Declaration

```
public bool qRCodeDataTypeSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## qRCodeErrorCorrection

### Declaration

```
public qRCodeErrorCorrections qRCodeErrorCorrection { get; set; }
```

### Property Value

Type	Description
<a href="#">qRCodeErrorCorrections</a>	

## qRCodeErrorCorrectionSpecified

### Declaration

```
public bool qRCodeErrorCorrectionSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## qRCodeSize

### Declaration

```
public byte qRCodeSize { get; set; }
```

### Property Value

## Type Description

[byte](#)

## qRCodeSizeSpecified

### Declaration

```
public bool qRCodeSizeSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## width

### Declaration

```
public byte width { get; set; }
```

### Property Value

## Type Description

[byte](#)

## widthSpecified

### Declaration



```
public bool widthSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class printDuplicateReceipt

## Inheritance

[object](#)

printDuplicateReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printDuplicateReceipt
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class printFiscalDocumentLine

## Inheritance

[object](#)

printFiscalDocumentLine

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printFiscalDocumentLine
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### documentLine

#### Declaration

```
public string documentLine { get; set; }
```

#### Property Value

### Type Description

[string](#)

### font

#### Declaration

```
public fonts font { get; set; }
```

#### Property Value

### Type Description

[fonts](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printGraphicCoupon

## Inheritance

[object](#)

printGraphicCoupon

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printGraphicCoupon
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### graphicFormat

#### Declaration

```
public graphicFormats graphicFormat { get; set; }
```

#### Property Value

Type	Description
------	-------------

[graphicFormats](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class printNormal

## Inheritance

[object](#)

printNormal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printNormal
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### data

#### Declaration

```
public string data { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### font

#### Declaration

```
public fonts font { get; set; }
```

#### Property Value

#### Type Description

[fonts](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecCash

## Inheritance

[object](#)

printRecCash

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecCash
```

## Properties

### amount

#### Declaration

```
public string amount { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### direction

#### Declaration

```
public directions direction { get; set; }
```

#### Property Value

#### Type Description

[directions](#)

### form

#### Declaration



```
public forms form { get; set; }
```

**Property Value**

**Type Description**

[forms](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecItemAdjustment

## Inheritance

[object](#)

printRecItemAdjustment

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecItemAdjustment
```

## Properties

### adjustmentType

#### Declaration

```
public byte adjustmentType { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### amount

#### Declaration

```
public string amount { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**description**

**Declaration**

```
public string description { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**justification**

**Declaration**

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecItemAdjustmentVoid

## Inheritance

[object](#)

printRecItemAdjustmentVoid

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecItemAdjustmentVoid
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class printRecItemDirectInvoice

## Inheritance

[object](#)

printRecItemDirectInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecItemDirectInvoice
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

### Type Description

[string](#)

### justification

#### Declaration

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**quantity**

**Declaration**

```
public string quantity { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**unitPrice**

**Declaration**

```
public string unitPrice { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class printRecItemFiscalReceipt

## Inheritance

[object](#)

printRecItemFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecItemFiscalReceipt
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

### Type Description

[string](#)

### justification

#### Declaration

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public string @operator { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**quantity**

**Declaration**

```
public string quantity { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**unitPrice**

**Declaration**

```
public string unitPrice { get; set; }
```

**Property Value**

**Type Description**

[string](#)



# Class printRecItemVoidDirectInvoice

## Inheritance

[object](#)

printRecItemVoidDirectInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecItemVoidDirectInvoice
```

## Constructors

### printRecItemVoidDirectInvoice()

#### Declaration

```
public printRecItemVoidDirectInvoice()
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

## Type Description

[string](#)

## justification

### Declaration

```
public byte justification { get; set; }
```

### Property Value

## Type Description

[byte](#)

## operator

### Declaration

```
public byte @operator { get; set; }
```

### Property Value

## Type Description

[byte](#)

## quantity

### Declaration

```
public string quantity { get; set; }
```

### Property Value

## Type Description

[string](#)

## unitPrice

### Declaration

```
public string unitPrice { get; set; }
```

### Property Value

## Type Description

[string](#)

## voidLastItem

### Declaration

```
public ushort voidLastItem { get; set; }
```

### Property Value

## Type Description

[ushort](#)

## voidLastItemSpecified

### Declaration

```
public bool voidLastItemSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class printRecItemVoidFiscalReceipt

## Inheritance

[object](#)

printRecItemVoidFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecItemVoidFiscalReceipt
```

## Constructors

**printRecItemVoidFiscalReceipt()**

### Declaration

```
public printRecItemVoidFiscalReceipt()
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

## Type Description

[string](#)

## justification

### Declaration

```
public byte justification { get; set; }
```

### Property Value

## Type Description

[byte](#)

## operator

### Declaration

```
public string @operator { get; set; }
```

### Property Value

## Type Description

[string](#)

## quantity

### Declaration

```
public string quantity { get; set; }
```

### Property Value

## Type Description

[string](#)

## unitPrice

### Declaration

```
public string unitPrice { get; set; }
```

### Property Value

## Type Description

[string](#)

## voidLastItem

### Declaration

```
public ushort voidLastItem { get; set; }
```

### Property Value

## Type Description

[ushort](#)

## voidLastItemSpecified

### Declaration

```
public bool voidLastItemSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class printRecMessageFiscal

## Inheritance

[object](#)

printRecMessageFiscal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecMessageFiscal
```

## Properties

### clearEFTPOSBuffer

#### Declaration

```
public clearEFTPOSBufferOptions clearEFTPOSBuffer { get; set; }
```

#### Property Value

Type	Description
<a href="#">clearEFTPOSBufferOptions</a>	

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### font

#### Declaration

```
public fonts font { get; set; }
```

#### Property Value

#### Type Description

[fonts](#)

### index

#### Declaration

```
public byte index { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**message**

**Declaration**

```
public string message { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**messageType**

**Declaration**

```
public byte messageType { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)



# Class printRecMessageInvoice

## Inheritance

[object](#)

printRecMessageInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecMessageInvoice
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### index

#### Declaration

```
public byte index { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### message

#### Declaration

```
public string message { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### message Type

#### Declaration

```
public byte messageType { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecMessageNonFiscal

## Inheritance

[object](#)

printRecMessageNonFiscal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecMessageNonFiscal
```

## Properties

### clearEFTPOSBuffer

#### Declaration

```
public clearEFTPOSBufferOptions clearEFTPOSBuffer { get; set; }
```

#### Property Value

Type	Description
<a href="#">clearEFTPOSBufferOptions</a>	

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### font

#### Declaration

```
public fonts font { get; set; }
```

#### Property Value

#### Type Description

[fonts](#)

### index

#### Declaration

```
public byte index { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**message**

**Declaration**

```
public string message { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**messageType**

**Declaration**

```
public byte messageType { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecRefundDirectInvoice

## Inheritance

[object](#)

printRecRefundDirectInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecRefundDirectInvoice
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### justification

#### Declaration

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**quantity**

**Declaration**

```
public string quantity { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**unitPrice**

**Declaration**

```
public string unitPrice { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class printRecRefundFiscalReceipt

## Inheritance

[object](#)

printRecRefundFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecRefundFiscalReceipt
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### department

#### Declaration

```
public byte department { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

### Type Description

[string](#)

### justification

#### Declaration

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public string @operator { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**quantity**

**Declaration**

```
public string quantity { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**unitPrice**

**Declaration**

```
public string unitPrice { get; set; }
```

**Property Value**

**Type Description**

[string](#)



# Class printRecRefundVoid

## Inheritance

[object](#)

printRecRefundVoid

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecRefundVoid
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class printRecSubtotal

## Inheritance

[object](#)

printRecSubtotal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecSubtotal
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### option

#### Declaration

```
public options option { get; set; }
```

#### Property Value

#### Type Description

[options](#)

# Class printRecSubtotalAdjustVoid

## Inheritance

[object](#)

printRecSubtotalAdjustVoid

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecSubtotalAdjustVoid
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class printRecSubtotalAdjustmentDirectInvoice

## Inheritance

[object](#)

printRecSubtotalAdjustmentDirectInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecSubtotalAdjustmentDirectInvoice
```

## Properties

### adjustmentType

#### Declaration

```
public byte adjustmentType { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### amount

#### Declaration

```
public string amount { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### description

#### Declaration

```
public string description { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**justification**

**Declaration**

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecSubtotalAdjustmentFiscalReceipt

## Inheritance

[object](#)

printRecSubtotalAdjustmentFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecSubtotalAdjustmentFiscalReceipt
```

## Properties

### adjustmentType

#### Declaration

```
public byte adjustmentType { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### amount

#### Declaration

```
public string amount { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### description

#### Declaration

```
public string description { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**justification**

**Declaration**

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecTotalDirectInvoice

## Inheritance

[object](#)

printRecTotalDirectInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecTotalDirectInvoice
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### index

#### Declaration

```
public byte index { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### justification

#### Declaration



```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**payment**

**Declaration**

```
public string payment { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**paymentType**

**Declaration**

```
public byte paymentType { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecTotalFiscalReceipt

## Inheritance

[object](#)

printRecTotalFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecTotalFiscalReceipt
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

### Type Description

[string](#)

### index

#### Declaration

```
public byte index { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### justification

#### Declaration

```
public byte justification { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**payment**

**Declaration**

```
public string payment { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**paymentType**

**Declaration**

```
public byte paymentType { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

# Class printRecVoid

## Inheritance

[object](#)

printRecVoid

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printRecVoid
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Class printTicket

## Inheritance

[object](#)  
printTicket

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printTicket
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### controlCode

#### Declaration

```
public uint controlCode { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### font

#### Declaration

```
public fonts font { get; set; }
```

#### Property Value

#### Type Description

[fonts](#)

### randomNum

#### Declaration

```
public uint randomNum { get; set; }
```

**Property Value**

**Type Description**

[uint](#)

**text**

**Declaration**

```
public string text { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**textType**

**Declaration**

```
public textTypes textType { get; set; }
```

**Property Value**

**Type Description**

[textTypes](#)

# Class printTicketVoid

## Inheritance

[object](#)

printTicketVoid

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printTicketVoid
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### controlCode

#### Declaration

```
public uint controlCode { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### randomNum

#### Declaration

```
public uint randomNum { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

# Class printXReport

## Inheritance

[object](#)  
printXReport

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printXReport
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)



# Class printXZReport

## Inheritance

[object](#)  
printXZReport

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printXZReport
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### timeout

#### Declaration

```
public uint timeout { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### timeoutSpecified

#### Declaration

```
public bool timeoutSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class printZReport

## Inheritance

[object](#)  
printZReport

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printZReport
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### timeout

#### Declaration

```
public uint timeout { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### timeoutSpecified

#### Declaration

```
public bool timeoutSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class printerCommand

## Inheritance

[object](#)

printerCommand

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerCommand
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

### ItemElementName

#### Declaration

```
public ItemChoiceType ItemElementName { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ItemChoiceType</a>	
--------------------------------	--

# Class printerCommands

## Inheritance

[object](#)  
printerCommands

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerCommands
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

#### Type Description

[object\[\]](#)

# Class printerFiscalDocument

## Inheritance

[object](#)

printerFiscalDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerFiscalDocument
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

#### Type Description

[object\[\]](#)

# Class printerFiscalReceipt

## Inheritance

[object](#)  
printerFiscalReceipt

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerFiscalReceipt
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

#### Type Description

[object\[\]](#)



# Class printerFiscalReport

## Inheritance

[object](#)  
printerFiscalReport

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerFiscalReport
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

# Class printerNonFiscal

## Inheritance

[object](#)  
printerNonFiscal

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerNonFiscal
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

# Class printerTicket

## Inheritance

[object](#)  
printerTicket

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class printerTicket
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

#### Type Description

[object\[\]](#)

# Class pulse

## Inheritance

[object](#)

pulse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class pulse
```

## Constructors

**pulse()**

### Declaration

```
public pulse()
```

## Properties

### drawer

#### Declaration

```
public pulsedrawer drawer { get; set; }
```

#### Property Value

Type	Description
------	-------------

[pulsedrawer](#)

### time

#### Declaration

```
public pulsetime time { get; set; }
```

#### Property Value

Type	Description
------	-------------

[pulsetime](#)

# Enum pulsedrawer

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum pulsedrawer
```

## Fields

Name	Description
------	-------------

drawer_1	
----------	--

drawer_2	
----------	--

# Enum pulsetime

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum pulsetime
```

## Fields

Name	Description
pulse_100	
pulse_200	
pulse_300	
pulse_400	
pulse_500	

# Enum qRCodeAlignments

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum qRCodeAlignments
```

## Fields

### Name Description

Item0

Item1

Item2

# Enum qRCodeDataTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum qRCodeDataTypes
```

## Fields

Name	Description
alphaNumeric	
binary	



# Enum qRCodeErrorCorrections

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum qRCodeErrorCorrections
```

## Fields

Name	Description
------	-------------

Item0	
-------	--

Item1	
-------	--

Item2	
-------	--

Item3	
-------	--

# Class queryPrintContentByDate

## Inheritance

[object](#)

queryPrintContentByDate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class queryPrintContentByDate
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### dataType

#### Declaration

```
public byte dataType { get; set; }
```

#### Property Value

### Type Description

[byte](#)

### fromDay

#### Declaration

```
public string fromDay { get; set; }
```

#### Property Value

### Type Description

[string](#)

### fromMonth

#### Declaration

```
public string fromMonth { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**fromYear**

**Declaration**

```
public string fromYear { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**toDay**

**Declaration**

```
public string toDay { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**toMonth**

**Declaration**

```
public string toMonth { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**toYear**

**Declaration**

```
public string toYear { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class queryPrintContentByNumbers

## Inheritance

[object](#)

queryPrintContentByNumbers

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class queryPrintContentByNumbers
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### dataType

#### Declaration

```
public byte dataType { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### day

#### Declaration

```
public string day { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### fromNumber

#### Declaration

```
public uint fromNumber { get; set; }
```

**Property Value**

**Type Description**

[uint](#)

**month**

**Declaration**

```
public string month { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**operator**

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**toNumber**

**Declaration**

```
public uint toNumber { get; set; }
```

**Property Value**

**Type Description**

[uint](#)

**year**

**Declaration**

```
public string year { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class queryPrinterStatus

## Inheritance

[object](#)

queryPrinterStatus

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class queryPrinterStatus
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

### statusType

#### Declaration

```
public statusTypes statusType { get; set; }
```

#### Property Value

#### Type Description

[statusTypes](#)

### statusTypeSpecified

#### Declaration

```
public bool statusTypeSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class readDevices

## Inheritance

[object](#)  
readDevices

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class readDevices
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)



# Class readVersion

## Inheritance

[object](#)

readVersion

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class readVersion
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class rectangle

## Inheritance

[object](#)  
rectangle

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class rectangle
```

## Constructors

### rectangle()

#### Declaration

```
public rectangle()
```

## Properties

### style

#### Declaration

```
public linestyle style { get; set; }
```

#### Property Value

#### Type Description

[linestyle](#)

### x1

#### Declaration

```
public ushort x1 { get; set; }
```

#### Property Value

#### Type Description

[ushort](#)

### x2

#### Declaration

```
public ushort x2 { get; set; }
```

#### Property Value

## Type Description

[ushort](#)

**y1**

### Declaration

```
public ushort y1 { get; set; }
```

### Property Value

## Type Description

[ushort](#)

**y2**

### Declaration

```
public ushort y2 { get; set; }
```

### Property Value

## Type Description

[ushort](#)

# Class resetPrinter

## Inheritance

[object](#)

resetPrinter

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class resetPrinter
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### operator

#### Declaration

```
public byte @operator { get; set; }
```

#### Property Value

### Type Description

[byte](#)

# Class response

## Inheritance

[object](#)

response

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class response
```

## Properties

### code

#### Declaration

```
public string code { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### status

#### Declaration

```
public uint status { get; set; }
```

#### Property Value

#### Type Description

[uint](#)

### statusSpecified

#### Declaration

```
public bool statusSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### success

#### Declaration

```
public bool success { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**successSpecified**

**Declaration**

```
public bool successSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class saveDevices

## Inheritance

[object](#)  
saveDevices

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class saveDevices
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class setDate

## Inheritance

[object](#)  
setDate

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class setDate
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### day

#### Declaration

```
public string day { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### hour

#### Declaration

```
public string hour { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### minute

#### Declaration



```
public string minute { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**month**

**Declaration**

```
public string month { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**year**

**Declaration**

```
public string year { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class setLogoCommand

## Inheritance

[object](#)

setLogoCommand

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class setLogoCommand
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### index

#### Declaration

```
public uint index { get; set; }
```

#### Property Value

### Type Description

[uint](#)

### location

#### Declaration

```
public logoLocationOptions location { get; set; }
```

#### Property Value

Type	Description
<a href="#">logoLocationOptions</a>	

# Class setLogoNonFiscal

## Inheritance

[object](#)

setLogoNonFiscal

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class setLogoNonFiscal
```

## Properties

### comment

#### Declaration

```
public string comment { get; set; }
```

#### Property Value

### Type Description

[string](#)

### graphicFormat

#### Declaration

```
public graphicFormats graphicFormat { get; set; }
```

#### Property Value

Type	Description
------	-------------

[graphicFormats](#)

### graphicFormatSpecified

#### Declaration

```
public bool graphicFormatSpecified { get; set; }
```

#### Property Value

### Type Description

[bool](#)

## index

### Declaration

```
public uint index { get; set; }
```

**Property Value**

### Type Description

[uint](#)

### indexSpecified

**Declaration**

```
public bool indexSpecified { get; set; }
```

**Property Value**

### Type Description

[bool](#)

### location

**Declaration**

```
public logoLocationOptions location { get; set; }
```

**Property Value**

Type	Description
------	-------------

[logoLocationOptions](#)

### locationSpecified

**Declaration**

```
public bool locationSpecified { get; set; }
```

**Property Value**

### Type Description

[bool](#)

### operator

**Declaration**

```
public byte @operator { get; set; }
```

**Property Value**

### Type Description

[byte](#)

### option

**Declaration**

```
public logoOptions option { get; set; }
```

**Property Value**

Type	Description
------	-------------

[logoOptions](#)

# Class sound

## Inheritance

[object](#)  
sound

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class sound
```

## Constructors

### sound()

#### Declaration

```
public sound()
```

## Properties

### pattern

#### Declaration

```
public soundpattern pattern { get; set; }
```

#### Property Value

Type	Description
<a href="#">soundpattern</a>	

### repeat

#### Declaration

```
public byte repeat { get; set; }
```

#### Property Value

#### Type Description

[byte](#)

# Enum soundpattern

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum soundpattern
```

## Fields

Name	Description
error	
none	
paper_end	
pattern_a	
pattern_b	
pattern_c	
pattern_d	
pattern_e	

# Enum statusTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum statusTypes
```

## Fields

### Name Description

Item0

Item1

# Class symbol

## Inheritance

[object](#)  
symbol

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class symbol
```

## Properties

### Value

#### Declaration

```
public string Value { get; set; }
```

#### Property Value

### Type Description

[string](#)

### align

#### Declaration

```
public align align { get; set; }
```

#### Property Value

### Type Description

[align](#)

### alignSpecified

#### Declaration

```
public bool alignSpecified { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### height

#### Declaration



```
public byte height { get; set; }
```

**Property Value**

**Type Description**

[byte](#)

**heightSpecified**

**Declaration**

```
public bool heightSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**level**

**Declaration**

```
public symbollevel level { get; set; }
```

**Property Value**

**Type Description**

[symbollevel](#)

**levelSpecified**

**Declaration**

```
public bool levelSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**rotate**

**Declaration**

```
public bool rotate { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**rotateSpecified**

**Declaration**

```
public bool rotateSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## size

### Declaration

```
public ushort size { get; set; }
```

### Property Value

#### Type Description

[ushort](#)

## sizeSpecified

### Declaration

```
public bool sizeSpecified { get; set; }
```

### Property Value

#### Type Description

[bool](#)

## type

### Declaration

```
public symboltype type { get; set; }
```

### Property Value

#### Type Description

[symboltype](#)

## width

### Declaration

```
public byte width { get; set; }
```

### Property Value

#### Type Description

[byte](#)

## widthSpecified

### Declaration

```
public bool widthSpecified { get; set; }
```

### Property Value

#### Type Description

[bool](#)

# Enum symbollevel

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum symbollevel
```

## Fields

Name	Description
------	-------------

default

level\_0

level\_1

level\_2

level\_3

level\_4

level\_5

level\_6

level\_7

level\_8

level\_h

level\_l

level\_m

level\_q

# Enum symboltype

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum symboltype
```

## Fields

Name	Description
gs1_databar_expanded_stacked	
gs1_databar_stacked	
gs1_databar_stacked_omnidirectional	
maxicode_mode_2	
maxicode_mode_3	
maxicode_mode_4	
maxicode_mode_5	
maxicode_mode_6	
pdf417_standard	
pdf417_truncated	
qrcode_model_1	
qrcode_model_2	

# Class text

## Inheritance

[object](#)

text

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class text
```

## Properties

### Value

#### Declaration

```
public string Value { get; set; }
```

#### Property Value

### Type Description

[string](#)

### align

#### Declaration

```
public align align { get; set; }
```

#### Property Value

### Type Description

[align](#)

### alignSpecified

#### Declaration

```
public bool alignSpecified { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### color

#### Declaration

```
public color color { get; set; }
```

**Property Value**

**Type Description**

[color](#)

**colorSpecified**

**Declaration**

```
public bool colorSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**dh**

**Declaration**

```
public bool dh { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**dhSpecified**

**Declaration**

```
public bool dhSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**dw**

**Declaration**

```
public bool dw { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**dwSpecified**

**Declaration**

```
public bool dwSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## **em**

### **Declaration**

```
public bool em { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **emSpecified**

### **Declaration**

```
public bool emSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **font**

### **Declaration**

```
public font font { get; set; }
```

### **Property Value**

### **Type Description**

[font](#)

## **fontSpecified**

### **Declaration**

```
public bool fontSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **height**

### **Declaration**

```
public byte height { get; set; }
```

### **Property Value**

### **Type Description**

[byte](#)

## **heightSpecified**

### **Declaration**

```
public bool heightSpecified { get; set; }
```

### **Property Value**

## Type Description

[bool](#)

## lang

### Declaration

```
public string lang { get; set; }
```

### Property Value

## Type Description

[string](#)

## linespc

### Declaration

```
public byte linespc { get; set; }
```

### Property Value

## Type Description

[byte](#)

## linespcSpecified

### Declaration

```
public bool linespcSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## reverse

### Declaration

```
public bool reverse { get; set; }
```

### Property Value

## Type Description

[bool](#)

## reverseSpecified

### Declaration

```
public bool reverseSpecified { get; set; }
```

### Property Value

## Type Description

[bool](#)

## rotate

### Declaration



```
public bool rotate { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**rotateSpecified**

**Declaration**

```
public bool rotateSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**smooth**

**Declaration**

```
public bool smooth { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**smoothSpecified**

**Declaration**

```
public bool smoothSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**ul**

**Declaration**

```
public bool ul { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**ulSpecified**

**Declaration**

```
public bool ulSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## **width**

### **Declaration**

```
public byte width { get; set; }
```

### **Property Value**

### **Type Description**

[byte](#)

## **widthSpecified**

### **Declaration**

```
public bool widthSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **x**

### **Declaration**

```
public ushort x { get; set; }
```

### **Property Value**

### **Type Description**

[ushort](#)

## **xSpecified**

### **Declaration**

```
public bool xSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

# Enum textTypes

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum textTypes
```

## Fields

### Name Description

R  
S

# Class vlinebegin

## Inheritance

[object](#)

vlinebegin

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class vlinebegin
```

## Constructors

**vlinebegin()**

### Declaration

```
public vlinebegin()
```

## Properties

**style**

### Declaration

```
public linestyle style { get; set; }
```

### Property Value

#### Type Description

[linestyle](#)

**x**

### Declaration

```
public ushort x { get; set; }
```

### Property Value

#### Type Description

[ushort](#)

# Class vlineend

## Inheritance

[object](#)

vlineend

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Italy.Printer.Epson.Schema](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class vlineend
```

## Constructors

**vlineend()**

### Declaration

```
public vlineend()
```

## Properties

**style**

### Declaration

```
public linestyle style { get; set; }
```

### Property Value

#### Type Description

[linestyle](#)

**x**

### Declaration

```
public ushort x { get; set; }
```

### Property Value

#### Type Description

[ushort](#)

# Namespace RetailForce.Fiscalisation.Implementation.Lithuania

## Classes

### [ClientConfiguration](#)

The Lithuania country specific client configuration.

### [FiscalResponseLithuania](#)

Fiscal response for Lithuania.

### [LithuaniaFiscalProperties](#)

Properties for lithuania

### [LithuaniaFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for lithuanian fiscalisation.

### [LithuaniaValidation](#)

### [TrustedFiscalModuleLithuania](#)

Fiscal module implementation for Lithuania

# Class ClientConfiguration

The Lithuania country specific client configuration.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## IekaPublicKey

The public key of ieka services.

### Declaration

```
public string IekaPublicKey { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

### RemoveSensitiveData()

Removes sensitive data from the configuration.



**Declaration**

```
public void RemoveSensitiveData()
```

**Remarks**

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

**Implements**

[IFiscalImplementationConfiguration](#)

# Class FiscalResponseLithuania

Fiscal response for Lithuania.

## Inheritance

[object](#)

FiscalResponseLithuania

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalResponseLithuania
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

### ClosingReportNumber(FiscalResponse)

#### Declaration

```
public static int ClosingReportNumber(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

#### Returns

#### Type Description

[int](#)

### GetFiscalResponseLithuania(int, List<DocumentTaxPosition>, long, string, string, string, string, string, string, int, string)

Returns fiscal response for Lithuania.

#### Declaration

```
public static FiscalResponse GetFiscalResponseLithuania(int fiscalDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, string c
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNumber	
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	
<a href="#">long</a>	fiscalDocumentStartTime	
<a href="#">string</a>	signature	
<a href="#">string</a>	cashRegisterId	
<a href="#">string</a>	printMessage	
<a href="#">string</a>	errorDescription	
<a href="#">string</a>	securityModuleNr	The number of the security module.
<a href="#">string</a>	receiptCode	The signature value encrypted for fiscal receipt.
<a href="#">string</a>	qrCode	Qr code data for the receipt.
<a href="#">int</a>	closingReportNumber	
<a href="#">string</a>	userMessage	The user message.

#### Returns

**Type**            **Description**

[FiscalResponse](#) The [FiscalResponse](#) for France.

#### QrCode(FiscalResponse)

##### Declaration

```
public static string QrCode(this FiscalResponse fiscalResponse)
```

##### Parameters

**Type**            **Name**    **Description**

[FiscalResponse](#) fiscalResponse

##### Returns

##### Type Description

[string](#)

#### ReceiptCode(FiscalResponse)

##### Declaration

```
public static string ReceiptCode(this FiscalResponse fiscalResponse)
```

##### Parameters

**Type**            **Name**    **Description**

[FiscalResponse](#) fiscalResponse

##### Returns

##### Type Description

[string](#)

#### SecurityModuleNr(FiscalResponse)

##### Declaration

```
public static string SecurityModuleNr(this FiscalResponse fiscalResponse)
```

##### Parameters

**Type**            **Name**    **Description**

[FiscalResponse](#) fiscalResponse

##### Returns

##### Type Description

[string](#)

# Class LithuaniaFiscalProperties

Properties for lithuania

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>](#)

LithuaniaFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentificationType\)](#)

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LithuaniaFiscalProperties : FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

### Type Description

[Version](#)

#### Overrides

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

Type	Description
------	-------------

[FiscalCountry](#)

### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

### Remarks

Adding document type to fiscal document types must have symmetric key generation and terminal parameter for the symmetric key for the document type.

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.FiscalLineInterface](#)

## GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

**Declaration**

```
public override string GetCloudArchiveAccessLicense { get; }
```

**Property Value****Type Description**

[string](#)

**Overrides**

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

**Remarks**

Return empty string if there is not cloud

**MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

**Declaration**

```
public override int MaximumHourIntervalForClosing { get; }
```

**Property Value****Type Description**

[int](#)

**Overrides**

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

**Remarks**

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

**MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

**Declaration**

```
public override bool MustRecordDocumentReprint { get; }
```

**Property Value****Type Description**

[bool](#)

**Overrides**

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

**MustSendClosingPerDay**

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

**Declaration**

```
public override bool MustSendClosingPerDay { get; }
```

**Property Value****Type Description**

[bool](#)

**Overrides**

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

**NotSupportedBusinessTransactionTypes**

Returns a list of all not supported business transaction types.

**Declaration**

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

Property Value

Type	Description
<a href="#">bool</a>	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
------	-------------

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

#### StartDocumentType

Returns the start document type for initialization.

#### Declaration

```
public override DocumentType StartDocumentType { get; }
```

#### Property Value

Type	Description
<a href="#">DocumentType</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.StartDocumentType](#)

#### SupportedBusinessTransactionTypes



Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

### Type Description

[Vat](#)

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.TaxFreeVat](#)

### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

Declaration

```
public override bool TrainingModeAllowed { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class LithuaniaFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for lithuanian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
LithuaniaFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Lithuania](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class LithuaniaFiscalisationRequiredAttribute : RequiredAttribute
```

# Class LithuaniaValidation

## Inheritance

[object](#)

LithuaniaValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LithuaniaValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

# Class TrustedFiscalModuleLithuania

Fiscal module implementation for Lithuania

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>](#)  
[TrustedFiscalModuleLithuania](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleLithuania : TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>
```

## Constructors

**TrustedFiscalModuleLithuania(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleLithuania(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider,
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

## Certificate\_SecurityModule

### Declaration

```
public const string Certificate_SecurityModule = "SecurityModuleCertificate"
```

### Field Value

### Type Description

[string](#)

## Certificate\_TransportModule

### Declaration

```
public const string Certificate_TransportModule = "TransportModuleCertificate"
```

### Field Value

### Type Description

[string](#)

## Parameter\_iEkaPublicKey

### Declaration

```
public const string Parameter_iEkaPublicKey = "iEkaPublicKey"
```

### Field Value

### Type Description

[string](#)

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CancelDocument\(Document\)](#)

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

#### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.DecommissionClient\(Document\)](#)

#### GetSymmetricKeyParameterName(DocumentType)

Returns the symmetric key name for the given document type.

#### Declaration

```
public static string GetSymmetricKeyParameterName(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The document type where the symmetric key name is requested.

#### Returns

Type	Description
<a href="#">string</a>	The symmetric key name for the given document type.

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)



Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Lithuania.Asn

## Classes

### [AsnObjectWriter](#)

Writes an asn1 object as sequence.

### [AsnValueAttribute](#)

Attribute to decorate properties to format in asn structure.

## Enums

### [AsnType](#)

The type of the value in the asn structure.

# Class AsnObjectWriter

Writes an asn1 object as sequence.

## Inheritance

[object](#)

AsnObjectWriter

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Asn](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AsnObjectWriter
```

## Remarks

Please ensure to decorate properties to write with [AsnValueAttribute](#).

## Constructors

### AsnObjectWriter(AsnEncodingRules)

Constructor.

## Declaration

```
public AsnObjectWriter(AsnEncodingRules encodingRules)
```

## Parameters

Type	Name	Description
<a href="#">AsnEncodingRules</a>	encodingRules	The encoding rules for the asn.

## Methods

### WriteObject(object)

Writes the given object to asn format and returns asn in bytes in appropriate encoding.

## Declaration

```
public byte[] WriteObject(object obj)
```

## Parameters

Type	Name	Description
<a href="#">object</a>	obj	The object to write (containing properties decorated with <a href="#">AsnValueAttribute</a> ).

## Returns

Type	Description
------	-------------

<a href="#">byte</a> []	The asn encoded structure.
-------------------------	----------------------------

## Exceptions

Type	Condition
------	-----------

<a href="#">NotSupportedException</a>	Thrown if the type of the <a href="#">AsnValueAttribute</a> is not supported.
---------------------------------------	---

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>obj</code> is set to null.
---------------------------------------	--

# Enum AsnType

The type of the value in the asn structure.

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Asn](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum AsnType
```

## Fields

Name	Description
Integer	
OctetString	

# Class AsnValueAttribute

Attribute to decorate properties to format in asn structure.

## Inheritance

[object](#)  
[Attribute](#)  
AsnValueAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Asn](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AsnValueAttribute : Attribute
```

## Constructors

## AsnValueAttribute(AsnType, int)

Constructor.

### Declaration

```
public AsnValueAttribute(AsnType asnType, int order)
```

### Parameters

Type	Name	Description
<a href="#">AsnType</a>	asnType	The type of the value in the asn structure.
<a href="#">int</a>	order	The order of the property in the asn structure.

## Properties

### AsnType

The type of the value in the asn structure.

### Declaration

```
public AsnType AsnType { get; }
```

### Property Value

Type	Description
------	-------------

<a href="#">AsnType</a>	
-------------------------	--

### Order

The order of the property in the asn structure.

### Declaration

```
public int Order { get; }
```

### Property Value

Type	Description
------	-------------

<a href="#">int</a>	
---------------------	--



# Namespace RetailForce.Fiscalisation.Implementation.Lithuania.Model

## Classes

[AdditionalData](#)

[Asn1Receipt](#)

Object for asn1 encoder for fiscal receipts.

[CashBalanceDetail](#)

[Corrections](#)

[Counters](#)

[DailyData](#)

[DiscountsAdditions](#)

[Document](#)

[DocumentAmounts](#)

[DocumentFiscalAmounts](#)

[DocumentHeader](#)

[FiscalDay](#)

[FiscalDayDocument](#)

[FiscalDayPayments](#)

[FiscalDayTaxData](#)

[FiscalDayTaxTable](#)

[GasStationOperationViolationDocument](#)

[Location](#)

[NonFiscalCancelationDocument](#)

[NonFiscalCollectionDocument](#)

[NonFiscalDocument](#)

[NonFiscalFinancialDocument](#)

[NonFiscalPIMaintenanceDocument](#)

[NonFiscalReturnDocument](#)

[NonFiscalTaxChangeDocument](#)

[NonFiscalTechnicalRefueling](#)

[NonFiscalTechnicalRefuelingDocument](#)

[OtherCashCollectionOperation](#)

[PICashDetailsAfterOperation](#)

[PICashDetailsBeforeOperation](#)

[PICashOperationDetail](#)

[PackageDocuments](#)

[PackageHeader](#)

[PaymentDetail](#)

[PayoutDetail](#)

[PreOrderDocument](#)

[PreOrderDocuments](#)

[Receipt](#)

[ReceiptPayments](#)

[SalesOperationData](#)

[SalesOperationTaxLine](#)

[SpecialGoodsSale](#)

[SpecificDocumentTypeNumber](#)

[TaxTable](#)

[TechnicalRefueling](#)

**Enums**

[Direction](#)

# Class AdditionalData

## Inheritance

[object](#)

AdditionalData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class AdditionalData
```

## Properties

### preOrderDocuments

#### Declaration

```
public PreOrderDocuments preOrderDocuments { get; set; }
```

#### Property Value

Type	Description
------	-------------

[PreOrderDocuments](#)

### specialGoodsSales

#### Declaration

```
public SpecialGoodsSale[] specialGoodsSales { get; set; }
```

#### Property Value

Type	Description
------	-------------

[SpecialGoodsSale\[\]](#)

### technicalRefuelings

#### Declaration

```
public TechnicalRefueling[] technicalRefuelings { get; set; }
```

#### Property Value

Type	Description
------	-------------

[TechnicalRefueling\[\]](#)

# Class Asn1Receipt

Object for asn1 encoder for fiscal receipts.

## Inheritance

[object](#)

Asn1Receipt

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Asn1Receipt
```

## Properties

### DocumentDateTime

#### Declaration

```
[AsnValue(AsnType.Integer, 4)]  
public int DocumentDateTime { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### DocumentHash

#### Declaration

```
[AsnValue(AsnType.OctetString, 8)]  
public byte[] DocumentHash { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### DocumentNumber

#### Declaration

```
[AsnValue(AsnType.Integer, 1)]  
public int DocumentNumber { get; set; }
```

#### Property Value

#### Type Description

[int](#)

## DocumentType

### Declaration

```
[AsnValue(AsnType.Integer, 2)]  
public int DocumentType { get; set; }
```

### Property Value

### Type Description

[int](#)

## PreviousDocumentDocumentDateTime

### Declaration

```
[AsnValue(AsnType.Integer, 11)]  
public int PreviousDocumentDocumentDateTime { get; set; }
```

### Property Value

### Type Description

[int](#)

## PreviousDocumentDocumentHash

### Declaration

```
[AsnValue(AsnType.OctetString, 15)]  
public byte[] PreviousDocumentDocumentHash { get; set; }
```

### Property Value

### Type Description

[byte\[\]](#)

## PreviousDocumentNumber

### Declaration

```
[AsnValue(AsnType.Integer, 9)]  
public int PreviousDocumentNumber { get; set; }
```

### Property Value

### Type Description

[int](#)

## PreviousDocumentReceiptNumberInFiscalDay

### Declaration

```
[AsnValue(AsnType.Integer, 10)]  
public int PreviousDocumentReceiptNumberInFiscalDay { get; set; }
```

### Property Value

### Type Description

[int](#)

## PreviousDocumentTotalPayoutAmount

### Declaration

```
[AsnValue(AsnType.Integer, 14)]
public int PreviousDocumentTotalPayoutAmount { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

### **PreviousDocumentTotalSalesAmount**

**Declaration**

```
[AsnValue(AsnType.Integer, 13)]
public int PreviousDocumentTotalSalesAmount { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

### **PreviousDocumentTotalSalesTaxAmount**

**Declaration**

```
[AsnValue(AsnType.Integer, 12)]
public int PreviousDocumentTotalSalesTaxAmount { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

### **ReceiptNumberInFiscalDay**

**Declaration**

```
[AsnValue(AsnType.Integer, 3)]
public int ReceiptNumberInFiscalDay { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

### **SecurityModuleRegistrationNumber**

**Declaration**

```
[AsnValue(AsnType.Integer, 0)]
public int SecurityModuleRegistrationNumber { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

### **TotalPayoutAmount**

**Declaration**

```
[AsnValue(AsnType.Integer, 7)]
public int TotalPayoutAmount { get; set; }
```

**Property Value**

## Type Description

[int](#)

## TotalSalesAmount

### Declaration

```
[AsnValue(AsnType.Integer, 6)]  
public int TotalSalesAmount { get; set; }
```

### Property Value

## Type Description

[int](#)

## TotalSalesTaxAmount

### Declaration

```
[AsnValue(AsnType.Integer, 5)]  
public int TotalSalesTaxAmount { get; set; }
```

### Property Value

## Type Description

[int](#)

# Class CashBalanceDetail

## Inheritance

[object](#)

CashBalanceDetail

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class CashBalanceDetail
```

## Properties

### cashAmount

#### Declaration

```
public decimal cashAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### cashCurrency

#### Declaration

```
public string cashCurrency { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### insertionOperationCashAmount

#### Declaration

```
public decimal insertionOperationCashAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### insertionOperationCashQuantity

#### Declaration



```
public int insertionOperationCashQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**withdrawalOperationCashAmount**

**Declaration**

```
public decimal withdrawalOperationCashAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**withdrawalOperationCashQuantity**

**Declaration**

```
public int withdrawalOperationCashQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

# Class Corrections

## Inheritance

[object](#)

Corrections

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Corrections
```

## Properties

### correctionsAmount

#### Declaration

```
public decimal correctionsAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### correctionsQuantity

#### Declaration

```
public int correctionsQuantity { get; set; }
```

#### Property Value

##### Type Description

[int](#)

# Class Counters

## Inheritance

[object](#)

Counters

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Counters
```

## Properties

### GTBuying

#### Declaration

```
public decimal GTBuying { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### GTBuyingSpecified

#### Declaration

```
public bool GTBuyingSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### GTSales

#### Declaration

```
public decimal GTSales { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### GTSalesTaxAmount

#### Declaration

```
public decimal GTSalesTaxAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

# Class DailyData

## Inheritance

[object](#)  
DailyData

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DailyData
```

## Properties

### anceledReceiptsDocumentsAmount

#### Declaration

```
public decimal canceledReceiptsDocumentsAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### anceledReceiptsDocumentsQuantity

#### Declaration

```
public int canceledReceiptsDocumentsQuantity { get; set; }
```

#### Property Value

##### Type Description

[int](#)

### gasStationOperationViolationDocumentsQuantity

#### Declaration

```
public int gasStationOperationViolationDocumentsQuantity { get; set; }
```

#### Property Value

##### Type Description

[int](#)

### gasStationOperationViolationDocumentsQuantitySpecified

#### Declaration

```
public bool gasStationOperationViolationDocumentsQuantitySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**otherDocumentsQuantity**

**Declaration**

```
public int otherDocumentsQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**periodEndDateTime**

**Declaration**

```
public DateTime periodEndDateTime { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**periodStartDateTime**

**Declaration**

```
public DateTime periodStartDateTime { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**receiptQuantity**

**Declaration**

```
public int receiptQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

# Enum Direction

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Direction
```

## Fields

### Name Description

IN  
OUT

# Class DiscountsAdditions

## Inheritance

[object](#)

DiscountsAdditions

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DiscountsAdditions
```

## Properties

### totalSalesAdditionAmount

#### Declaration

```
public decimal totalSalesAdditionAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### totalSalesAdditionAmountSpecified

#### Declaration

```
public bool totalSalesAdditionAmountSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### totalSalesAdditionQuantity

#### Declaration

```
public int totalSalesAdditionQuantity { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### totalSalesAdditionQuantitySpecified

#### Declaration



```
public bool totalSalesAdditionQuantitySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**totalSalesAmountWithoutDiscountAddition**

**Declaration**

```
public decimal totalSalesAmountWithoutDiscountAddition { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**totalSalesDiscountAmount**

**Declaration**

```
public decimal totalSalesDiscountAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**totalSalesDiscountAmountSpecified**

**Declaration**

```
public bool totalSalesDiscountAmountSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**totalSalesDiscountQuantity**

**Declaration**

```
public int totalSalesDiscountQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**totalSalesDiscountQuantitySpecified**

**Declaration**

```
public bool totalSalesDiscountQuantitySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class Document

## Inheritance

[object](#)

Document

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Document
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

### documentHeader

#### Declaration

```
public DocumentHeader documentHeader { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DocumentHeader</a>	
--------------------------------	--

# Class DocumentAmounts

## Inheritance

[object](#)

DocumentAmounts

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DocumentAmounts
```

## Properties

### PICashDetailsAfterOperations

#### Declaration

```
public PICashDetailsAfterOperation[] PICashDetailsAfterOperations { get; set; }
```

#### Property Value

Type	Description
<a href="#">PICashDetailsAfterOperation[]</a>	

### PICashDetailsBeforeOperations

#### Declaration

```
public PICashDetailsBeforeOperation[] PICashDetailsBeforeOperations { get; set; }
```

#### Property Value

Type	Description
<a href="#">PICashDetailsBeforeOperation[]</a>	

### PICashOperationDetails

#### Declaration

```
public PICashOperationDetail[] PICashOperationDetails { get; set; }
```

#### Property Value

Type	Description
<a href="#">PICashOperationDetail[]</a>	

# Class DocumentFiscalAmounts

## Inheritance

[object](#)

DocumentFiscalAmounts

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DocumentFiscalAmounts
```

## Properties

### discountsAdditions

#### Declaration

```
public DiscountsAdditions discountsAdditions { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DiscountsAdditions</a>	
------------------------------------	--

### salesOperationData

#### Declaration

```
public SalesOperationData salesOperationData { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">SalesOperationData</a>	
------------------------------------	--

# Class DocumentHeader

## Inheritance

[object](#)

DocumentHeader

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DocumentHeader
```

## Properties

### correctionReason

#### Declaration

```
public string correctionReason { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### documentCode

#### Declaration

```
public byte[] documentCode { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### documentDateTime

#### Declaration

```
public DateTime documentDateTime { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### documentHash

#### Declaration

```
public byte[] documentHash { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**documentInfoBlockCrypto**

**Declaration**

```
public byte[] documentInfoBlockCrypto { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**documentNumber**

**Declaration**

```
public int documentNumber { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**documentSignature**

**Declaration**

```
public byte[] documentSignature { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**linkedDocumentNumbers**

**Declaration**

```
public int[] linkedDocumentNumbers { get; set; }
```

**Property Value**

**Type Description**

[int\[\]](#)

**location**

**Declaration**

```
public Location location { get; set; }
```

**Property Value**

**Type Description**

[Location](#)

## previousDocumentHash

### Declaration

```
public byte[] previousDocumentHash { get; set; }
```

### Property Value

### Type Description

[byte\[\]](#)

## specificDocumentTypeNumber

### Declaration

```
public SpecificDocumentTypeNumber specificDocumentTypeNumber { get; set; }
```

### Property Value

Type	Description
------	-------------

[SpecificDocumentTypeNumber](#)

# Class FiscalDay

## Inheritance

[object](#)

FiscalDay

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class FiscalDay
```

## Properties

### additionalData

#### Declaration

```
public AdditionalData additionalData { get; set; }
```

#### Property Value

Type	Description
------	-------------

[AdditionalData](#)

### cashBalanceDetails

#### Declaration

```
public CashBalanceDetail[] cashBalanceDetails { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CashBalanceDetail\[\]](#)

### corrections

#### Declaration

```
public Corrections corrections { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Corrections](#)

### counters

#### Declaration



```
public Counters counters { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Counters</a>	
--------------------------	--

#### dailyData

#### Declaration

```
public DailyData dailyData { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DailyData</a>	
---------------------------	--

#### documentFiscalAmounts

#### Declaration

```
public DocumentFiscalAmounts documentFiscalAmounts { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DocumentFiscalAmounts</a>	
---------------------------------------	--

#### fiscalDayPayments

#### Declaration

```
public FiscalDayPayments fiscalDayPayments { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FiscalDayPayments</a>	
-----------------------------------	--

#### fiscalDayTaxData

#### Declaration

```
public FiscalDayTaxData fiscalDayTaxData { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FiscalDayTaxData</a>	
----------------------------------	--

#### otherCashCollectionOperations

#### Declaration

```
public OtherCashCollectionOperation[] otherCashCollectionOperations { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">OtherCashCollectionOperation[]</a>	
--	--

# Class FiscalDayDocument

## Inheritance

[object](#)

FiscalDayDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class FiscalDayDocument
```

## Properties

### documentHeader

#### Declaration

```
public DocumentHeader documentHeader { get; set; }
```

#### Property Value

Type	Description
<a href="#">DocumentHeader</a>	

### fiscalDay

#### Declaration

```
public FiscalDay fiscalDay { get; set; }
```

#### Property Value

Type	Description
<a href="#">FiscalDay</a>	

### packageHeader

#### Declaration

```
public PackageHeader packageHeader { get; set; }
```

#### Property Value

Type	Description
<a href="#">PackageHeader</a>	

# Class FiscalDayPayments

## Inheritance

[object](#)

FiscalDayPayments

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class FiscalDayPayments
```

## Properties

### paymentDetails

#### Declaration

```
public PaymentDetail[] paymentDetails { get; set; }
```

#### Property Value

Type	Description
<a href="#">PaymentDetail[]</a>	

### payoutDetails

#### Declaration

```
public PayoutDetail[] payoutDetails { get; set; }
```

#### Property Value

Type	Description
<a href="#">PayoutDetail[]</a>	

### totalAmountToPay

#### Declaration

```
public decimal totalAmountToPay { get; set; }
```

#### Property Value

Type	Description
<a href="#">decimal</a>	

# Class FiscalDayTaxData

## Inheritance

[object](#)

FiscalDayTaxData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class FiscalDayTaxData
```

## Properties

### fiscalDayTaxTables

#### Declaration

```
public FiscalDayTaxTable[] fiscalDayTaxTables { get; set; }
```

#### Property Value

Type	Description
<a href="#">FiscalDayTaxTable[]</a>	

### lastTaxChangeDateTime

#### Declaration

```
public DateTime lastTaxChangeDateTime { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTime</a>	

### taxChangeNumber

#### Declaration

```
public string taxChangeNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class FiscalDayTaxTable

## Inheritance

[object](#)

FiscalDayTaxTable

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class FiscalDayTaxTable
```

## Properties

### taxDescription

#### Declaration

```
public string taxDescription { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### taxRate

#### Declaration

```
public string taxRate { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class GasStationOperationViolationDocument

## Inheritance

[object](#)

GasStationOperationViolationDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class GasStationOperationViolationDocument
```

## Properties

### violationDescription

#### Declaration

```
public string violationDescription { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class Location

## Inheritance

[object](#)

Location

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Location
```

## Properties

### locationLKSX

#### Declaration

```
public int locationLKSX { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### locationLKSXSpecified

#### Declaration

```
public bool locationLKSXSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### locationLKSY

#### Declaration

```
public int locationLKSY { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### locationLKSYSpecified

#### Declaration

```
public bool locationLKSYSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**locationUID**

**Declaration**

```
public string locationUID { get; set; }
```

**Property Value**

**Type Description**

[string](#)



# Class NonFiscalCancelationDocument

## Inheritance

[object](#)

NonFiscalCancelationDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalCancelationDocument
```

## Properties

### anceledAmount

#### Declaration

```
public decimal canceledAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

# Class NonFiscalCollectionDocument

## Inheritance

[object](#)

NonFiscalCollectionDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalCollectionDocument
```

## Properties

### documentAmounts

#### Declaration

```
public DocumentAmounts documentAmounts { get; set; }
```

#### Property Value

Type	Description
<a href="#">DocumentAmounts</a>	

# Class NonFiscalDocument

## Inheritance

[object](#)

NonFiscalDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class NonFiscalDocument
```

## Properties

### operationName

#### Declaration

```
public string operationName { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class NonFiscalFinancialDocument

## Inheritance

[object](#)

NonFiscalFinancialDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalFinancialDocument
```

## Properties

### otherCashCollectionOperations

#### Declaration

```
public OtherCashCollectionOperation[] otherCashCollectionOperations { get; set; }
```

#### Property Value

Type	Description
<a href="#">OtherCashCollectionOperation[]</a>	

### receiptPayments

#### Declaration

```
public ReceiptPayments receiptPayments { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReceiptPayments</a>	

# Class NonFiscalPIMaintenanceDocument

## Inheritance

[object](#)

NonFiscalPIMaintenanceDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalPIMaintenanceDocument
```

## Properties

### **maintenanceDescription**

#### Declaration

```
public string maintenanceDescription { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class NonFiscalReturnDocument

## Inheritance

[object](#)

NonFiscalReturnDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalReturnDocument
```

## Properties

### otherCashCollectionOperations

#### Declaration

```
public OtherCashCollectionOperation[] otherCashCollectionOperations { get; set; }
```

#### Property Value

Type	Description
<a href="#">OtherCashCollectionOperation[]</a>	

### receiptPayments

#### Declaration

```
public ReceiptPayments receiptPayments { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReceiptPayments</a>	

# Class NonFiscalTaxChangeDocument

## Inheritance

[object](#)

NonFiscalTaxChangeDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalTaxChangeDocument
```

## Properties

### taxTables

#### Declaration

```
public TaxTable[] taxTables { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">TaxTable[]</a>	
----------------------------	--

# Class NonFiscalTechnicalRefueling

## Inheritance

[object](#)

NonFiscalTechnicalRefueling

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalTechnicalRefueling
```

## Properties

### fuel

#### Declaration

```
public string fuel { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### fuelQuantity

#### Declaration

```
public decimal fuelQuantity { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### fuelType

#### Declaration

```
public string fuelType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### nozzleNumber

#### Declaration



```
public string nozzleNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class NonFiscalTechnicalRefuelingDocument

## Inheritance

[object](#)

NonFiscalTechnicalRefuelingDocument

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NonFiscalTechnicalRefuelingDocument
```

## Properties

### nonFiscalTechnicalRefueling

#### Declaration

```
public NonFiscalTechnicalRefueling nonFiscalTechnicalRefueling { get; set; }
```

#### Property Value

Type	Description
<a href="#">NonFiscalTechnicalRefueling</a>	

# Class OtherCashCollectionOperation

## Inheritance

[object](#)

OtherCashCollectionOperation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class OtherCashCollectionOperation
```

## Properties

### collectionAmount

#### Declaration

```
public decimal collectionAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### collectionDirection

#### Declaration

```
public Direction collectionDirection { get; set; }
```

#### Property Value

#### Type Description

[Direction](#)

### collectionType

#### Declaration

```
public string collectionType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### returnedDocumentCashRegisterRegistrationNo

#### Declaration

```
public string returnedDocumentCashRegisterRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**returnedDocumentNumber**

**Declaration**

```
public int returnedDocumentNumber { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**returnedDocumentNumberSpecified**

**Declaration**

```
public bool returnedDocumentNumberSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**returnedOtherSalesDocumentNumber**

**Declaration**

```
public string returnedOtherSalesDocumentNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PICashDetailsAfterOperation

## Inheritance

[object](#)

PICashDetailsAfterOperation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PICashDetailsAfterOperation
```

## Properties

### cashCurrency

#### Declaration

```
public string cashCurrency { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### finalCashAmount

#### Declaration

```
public decimal finalCashAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

# Class PICashDetailsBeforeOperation

## Inheritance

[object](#)

PICashDetailsBeforeOperation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PICashDetailsBeforeOperation
```

## Properties

### cashCurrency

#### Declaration

```
public string cashCurrency { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### initialCashAmount

#### Declaration

```
public decimal initialCashAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

# Class PICashOperationDetail

## Inheritance

[object](#)

PICashOperationDetail

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PICashOperationDetail
```

## Properties

### cashCurrency

#### Declaration

```
public string cashCurrency { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### operationCashAmount

#### Declaration

```
public decimal operationCashAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### operationDirection

#### Declaration

```
public Direction operationDirection { get; set; }
```

#### Property Value

#### Type Description

[Direction](#)

# Class PackageDocuments

## Inheritance

[object](#)

PackageDocuments

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PackageDocuments
```

## Properties

### documents

#### Declaration

```
public Document[] documents { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Document[]</a>	
----------------------------	--

### packageHeader

#### Declaration

```
public PackageHeader packageHeader { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">PackageHeader</a>	
-------------------------------	--



# Class PackageHeader

## Inheritance

[object](#)

PackageHeader

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PackageHeader
```

## Properties

### VATRegistrationNumber

#### Declaration

```
public string VATRegistrationNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### fileVersion

#### Declaration

```
public string fileVersion { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**registrationNumber**

**Declaration**

```
public string registrationNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**securityModuleRegistrationNo**

**Declaration**

```
public string securityModuleRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**softwareCompanyName**

**Declaration**

```
public string softwareCompanyName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**softwareName**

**Declaration**

```
public string softwareName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**softwareVersion**

**Declaration**

```
public string softwareVersion { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PaymentDetail

## Inheritance

[object](#)

PaymentDetail

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PaymentDetail
```

## Properties

### exchangeRate

#### Declaration

```
public decimal exchangeRate { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### exchangeRateSpecified

#### Declaration

```
public bool exchangeRateSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### paidAmountNatCur

#### Declaration

```
public decimal paidAmountNatCur { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### paidAmountPaymentCur

#### Declaration

```
public decimal paidAmountPaymentCur { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**paidAmountPaymentCurSpecified**

**Declaration**

```
public bool paidAmountPaymentCurSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**paymentCurrency**

**Declaration**

```
public string paymentCurrency { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**paymentType**

**Declaration**

```
public string paymentType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PayoutDetail

## Inheritance

[object](#)

PayoutDetail

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PayoutDetail
```

## Properties

### exchangeRate

#### Declaration

```
public decimal exchangeRate { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### exchangeRateSpecified

#### Declaration

```
public bool exchangeRateSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### payoutAmountNatCur

#### Declaration

```
public decimal payoutAmountNatCur { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### payoutAmountPaymentCur

#### Declaration

```
public decimal payoutAmountPaymentCur { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**payoutAmountPaymentCurSpecified**

**Declaration**

```
public bool payoutAmountPaymentCurSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**payoutCurrency**

**Declaration**

```
public string payoutCurrency { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**payoutType**

**Declaration**

```
public string payoutType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PreOrderDocument

## Inheritance

[object](#)  
PreOrderDocument

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PreOrderDocument
```

## Properties

### preSaleAmount

#### Declaration

```
public decimal preSaleAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

# Class PreOrderDocuments

## Inheritance

[object](#)

PreOrderDocuments

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PreOrderDocuments
```

## Properties

### preOrderTotalAmount

#### Declaration

```
public decimal preOrderTotalAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### preOrderTotalQuantity

#### Declaration

```
public int preOrderTotalQuantity { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### preOrderTotalUnpaidAmount

#### Declaration

```
public decimal preOrderTotalUnpaidAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### preOrderTotalUnpaidQuantity

#### Declaration



```
public int preOrderTotalUnpaidQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**preOrderTransfToAccomodInvAmount**

**Declaration**

```
public decimal preOrderTransfToAccomodInvAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**preOrderTransfToAccomodInvQuantity**

**Declaration**

```
public int preOrderTransfToAccomodInvQuantity { get; set; }
```

**Property Value**

**Type Description**

[int](#)

# Class Receipt

## Inheritance

[object](#)  
Receipt

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Receipt
```

## Properties

### corrections

#### Declaration

```
public Corrections corrections { get; set; }
```

#### Property Value

Type	Description
------	-------------

[Corrections](#)

### documentFiscalAmounts

#### Declaration

```
public DocumentFiscalAmounts documentFiscalAmounts { get; set; }
```

#### Property Value

Type	Description
------	-------------

[DocumentFiscalAmounts](#)

### otherCashCollectionOperations

#### Declaration

```
public OtherCashCollectionOperation[] otherCashCollectionOperations { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OtherCashCollectionOperation\[\]](#)

### receiptPayments

#### Declaration

```
public ReceiptPayments receiptPayments { get; set; }
```

**Property Value**

Type	Description
<a href="#">ReceiptPayments</a>	

# Class ReceiptPayments

## Inheritance

[object](#)

ReceiptPayments

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ReceiptPayments
```

## Properties

### paymentDetails

#### Declaration

```
public PaymentDetail[] paymentDetails { get; set; }
```

#### Property Value

Type	Description
<a href="#">PaymentDetail[]</a>	

### payoutDetails

#### Declaration

```
public PayoutDetail[] payoutDetails { get; set; }
```

#### Property Value

Type	Description
<a href="#">PayoutDetail[]</a>	

### totalAmountToPay

#### Declaration

```
public decimal totalAmountToPay { get; set; }
```

#### Property Value

Type	Description
<a href="#">decimal</a>	

# Class SalesOperationData

## Inheritance

[object](#)

SalesOperationData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SalesOperationData
```

## Properties

### salesOperationTaxDetails

#### Declaration

```
public SalesOperationTaxLine[] salesOperationTaxDetails { get; set; }
```

#### Property Value

Type	Description
<a href="#">SalesOperationTaxLine[]</a>	

### totalSalesAmount

#### Declaration

```
public decimal totalSalesAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### totalSalesTaxAmount

#### Declaration

```
public decimal? totalSalesTaxAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal?](#)

# Class SalesOperationTaxLine

## Inheritance

[object](#)

SalesOperationTaxLine

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SalesOperationTaxLine
```

## Properties

### salesAmountAfterTax

#### Declaration

```
public decimal salesAmountAfterTax { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### taxAmount

#### Declaration

```
public decimal? taxAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal?](#)

### taxRate

#### Declaration

```
public string taxRate { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class SpecialGoodsSale

## Inheritance

[object](#)

SpecialGoodsSale

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SpecialGoodsSale
```

## Properties

### goods

#### Declaration

```
public string goods { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### goodsGroup

#### Declaration

```
public string goodsGroup { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### goodsTotalSalesAmount

#### Declaration

```
public decimal goodsTotalSalesAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### goodsTotalSalesQuantity

#### Declaration

```
public decimal goodsTotalSalesQuantity { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**goodsTotalSalesQuantitySpecified**

**Declaration**

```
public bool goodsTotalSalesQuantitySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)



# Class SpecificDocumentTypeNumber

## Inheritance

[object](#)

SpecificDocumentTypeNumber

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SpecificDocumentTypeNumber
```

## Properties

### fiscalDayNumber

#### Declaration

```
public int fiscalDayNumber { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### nonFiscalDocumentNumberInFiscalDay

#### Declaration

```
public int nonFiscalDocumentNumberInFiscalDay { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### nonFiscalDocumentNumberInFiscalDaySpecified

#### Declaration

```
public bool nonFiscalDocumentNumberInFiscalDaySpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### receiptNumberInFiscalDay

#### Declaration

```
public int receiptNumberInFiscalDay { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**receiptNumberInFiscalDaySpecified**

**Declaration**

```
public bool receiptNumberInFiscalDaySpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class TaxTable

## Inheritance

[object](#)

TaxTable

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TaxTable
```

## Properties

### taxDescription

#### Declaration

```
public string taxDescription { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### taxRate

#### Declaration

```
public string taxRate { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class TechnicalRefueling

## Inheritance

[object](#)

TechnicalRefueling

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TechnicalRefueling
```

## Properties

### fuel

#### Declaration

```
public string fuel { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### fuelQuantity

#### Declaration

```
public decimal fuelQuantity { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### fuelType

#### Declaration

```
public string fuelType { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Namespace **RetailForce.Fiscalisation.Implementation.Lithuania.iEka**

## Classes

### [IekaConnectorBase<TServiceClient, TChannel>](#)

Base class for all connectors to i.Eka.

### [ServiceCompanyCashRegisterConnector](#)

Connector to service company cash register web service.

### [ServiceCompanyConnector](#)

Service company connector to use service company methods.

# Class IekaConnectorBase<TServiceClient, TChannel>

Base class for all connectors to i.Eka.

## Inheritance

[object](#)

IekaConnectorBase<TServiceClient, TChannel>

[ServiceCompanyCashRegisterConnector](#)

[ServiceCompanyConnector](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class IekaConnectorBase<TServiceClient, TChannel> where TServiceClient : ClientBase<TChannel> where TChannel : class
```

## Type Parameters

Name	Description
------	-------------

TServiceClient The type of the service client which will be used by this connector.

TChannel The channel type of the service client which will be used by this connector.

## Constructors

### IekaConnectorBase(UriStore, bool, X509Certificate2)

Constructor (protected).

#### Declaration

```
protected IekaConnectorBase(UriStore urlStore, bool isTest, X509Certificate2 communicationCertificate)
```

#### Parameters

Type	Name	Description
<a href="#">UriStore</a>	urlStore	The <a href="#">UriStore</a> to get the endpoint address. Use static variables from this class for the addresses.
<a href="#">bool</a>	isTest	True if the connection to the test system has to be established; otherwise false.
<a href="#">X509Certificate2</a>	communicationCertificate	The certificate for communication.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>communicationCertificate</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>urlStore</code> is set to null.

## Fields

### CashRegisterRegistrationService

#### Declaration

```
public static UrlStore CashRegisterRegistrationService
```

#### Field Value

Type	Description
------	-------------

<a href="#">UrlStore</a>	
--------------------------	--

### CashRegisterSecurityModuleService

#### Declaration

```
public static UrlStore CashRegisterSecurityModuleService
```

#### Field Value

Type	Description
------	-------------

<a href="#">UrlStore</a>	
--------------------------	--

### DataSendService

#### Declaration

```
public static UrlStore DataSendService
```

#### Field Value

Type	Description
------	-------------

<a href="#">UrlStore</a>	
--------------------------	--

### ServiceClient

#### Declaration

```
protected TServiceClient ServiceClient
```

#### Field Value

Type	Description
------	-------------

TServiceClient	
----------------	--

### ServiceCompanyService

#### Declaration

```
public static UrlStore ServiceCompanyService
```

#### Field Value

Type	Description
------	-------------

<a href="#">UrlStore</a>	
--------------------------	--

## Methods

### GetServiceClient()

Returns the service client for this connector.

#### Declaration

```
protected TServiceClient GetServiceClient ()
```

#### Returns

Type	Description
------	-------------

TServiceClient	The service client for this connector.
----------------	--

#### Remarks

In derived class you can use [ServiceClient](#) to access the service client (automatic instantiation in constructor).

# Class ServiceCompanyCashRegisterConnector

Connector to service company cash register web service.

## Inheritance

[object](#)

[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>](#)  
ServiceCompanyCashRegisterConnector

## Inherited Members

[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>.ServiceClient](#)  
[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>.ServiceCompanyService](#)  
[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>.CashRegisterRegistrationService](#)  
[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>.CashRegisterSecurityModuleService](#)  
[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>.DataSendService](#)  
[IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>.GetServiceClient\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class ServiceCompanyCashRegisterConnector : IekaConnectorBase<ServiceCompanyCashRegisterWebServiceClient, ServiceCompanyCashRegisterWebService>
```

## Constructors

### ServiceCompanyCashRegisterConnector(bool, X509Certificate2)

Constructor.

#### Declaration

```
public ServiceCompanyCashRegisterConnector(bool isTest, X509Certificate2 certificate)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	isTest	True if the connection to the test system has to be established; otherwise false.

[X509Certificate2](#) certificate The certificate for communication and authentication.



# Class ServiceCompanyConnector

Service company connector to use service company methods.

## Inheritance

[object](#)

[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>](#)  
ServiceCompanyConnector

## Inherited Members

[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>.ServiceClient](#)  
[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>.ServiceCompanyService](#)  
[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>.CashRegisterRegistrationService](#)  
[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>.CashRegisterSecurityModuleService](#)  
[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>.DataSendService](#)  
[IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>.GetServiceClient\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ServiceCompanyConnector : IekaConnectorBase<ServiceCompanyWebServiceClient, ServiceCompanyWebService>
```

## Constructors

### ServiceCompanyConnector(bool, X509Certificate2)

Constructor.

#### Declaration

```
public ServiceCompanyConnector(bool isTest, X509Certificate2 serviceCompanyIdentificationCertificate)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	isTest	True if the connection to the test system has to be established; otherwise false.
<a href="#">X509Certificate2</a>	serviceCompanyIdentificationCertificate	The certificate for communication and authentication.

## Methods

### DownloadServiceCompanySecurityModuleIntermediateCertificate(byte[])

Returns the security module intermediate certificate for the service company.

#### Declaration

```
public byte[] DownloadServiceCompanySecurityModuleIntermediateCertificate(byte[] csrFile)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type Name	Description
<a href="#">byte[]</a> csrFile	The certificate signing request.

#### Returns

Type	Description
<a href="#">byte[]</a>	The security module intermediate certificate for the service company.

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if request ends up with an error.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>csrFile</code> is set to null.

### DownloadServiceCompanyTransportModuleIntermediateCertificate(byte[])

Returns the transport module intermediate certificate for the service company.

#### Declaration

```
public byte[] DownloadServiceCompanyTransportModuleIntermediateCertificate(byte[] csrFile)
```

#### Parameters

Type Name	Description
<a href="#">byte[]</a> csrFile	The certificate signing request.

#### Returns

Type	Description
<a href="#">byte[]</a>	The transport module intermediate certificate for the service company.

#### Exceptions

Type	Condition
<a href="#">InvalidOperationException</a>	Thrown if request ends up with an error.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>csrFile</code> is set to null.

### GetPublicKey()

Returns the service company public key.

#### Declaration

```
public byte[] GetPublicKey()
```

#### Returns

Type	Description
------	-------------

Type	Description
<a href="#">byte</a> []	A byte array representing the service company public key.

## Namespace

**RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService**

### Classes

[Address](#)

[AddressItem](#)

[CancelCashRegister](#)

[CancelCashRegisterRequest](#)

[CancelCashRegisterResponse](#)

[CancelCashRegisterResponse1](#)

[CashRegisterInformation](#)

[CashRegisterProblem](#)

[CashRegisterRegistration](#)

[ChangeServiceCompany](#)

[ChangeServiceCompanyRequest](#)

[ChangeServiceCompanyResponse](#)

[ChangeServiceCompanyResponse1](#)

[Description](#)

[Error](#)

[GetBusinessAddress](#)

[GetBusinessAddressRequest](#)

[GetBusinessAddressResponse](#)

[GetBusinessAddressResponse1](#)

[GetServicedCashRegisterInformationByRegistrationID](#)

[GetServicedCashRegisterInformationByRegistrationIDRequest](#)

[GetServicedCashRegisterInformationByRegistrationIDResponse](#)

[GetServicedCashRegisterInformationByRegistrationIDResponse1](#)

[GetServicedCashRegisters](#)

[GetServicedCashRegistersRequest](#)

[GetServicedCashRegistersResponse](#)

[GetServicedCashRegistersResponse1](#)

[GetServicedUserCashRegisterInformationByRegistrationID](#)

[GetServicedUserCashRegisterInformationByRegistrationIDRequest](#)

[GetServicedUserCashRegisterInformationByRegistrationIDResponse](#)

[GetServicedUserCashRegisterInformationByRegistrationIDResponse1](#)

[GetServicedUserCashRegisters](#)

[GetServicedUserCashRegistersRequest](#)  
[GetServicedUserCashRegistersResponse](#)  
[GetServicedUserCashRegistersResponse1](#)  
[OtherCashRegisterAddress](#)  
[RegisterCashRegister](#)  
[RegisterCashRegisterRequest](#)  
[RegisterCashRegisterResponse](#)  
[RegisterCashRegisterResponse1](#)  
[RegisterTransportModuleCertificate](#)  
[RegisterTransportModuleCertificateRequest](#)  
[RegisterTransportModuleCertificateResponse](#)  
[RegisterTransportModuleCertificateResponse1](#)  
[ReregisterCashRegister](#)  
[ReregisterCashRegisterRequest](#)  
[ReregisterCashRegisterResponse](#)  
[ReregisterCashRegisterResponse1](#)  
[ServiceCompanyCashRegisterWebServiceClient](#)  
[SubmitCashRegisterPreventionWork](#)  
[SubmitCashRegisterPreventionWorkResponse](#)  
[SubmitCashRegisterPreventionWorksRequest](#)  
[SubmitCashRegisterPreventionWorksResponse](#)  
[UpdateCashRegister](#)  
[UpdateCashRegisterAddress](#)  
[UpdateCashRegisterAddressRequest](#)  
[UpdateCashRegisterAddressResponse](#)  
[UpdateCashRegisterAddressResponse1](#)  
[UpdateCashRegisterRequest](#)  
[UpdateCashRegisterResponse](#)  
[UpdateCashRegisterResponse1](#)  
[UpdateCashRegisterVersions](#)  
[UpdateCashRegisterVersionsRequest](#)  
[UpdateCashRegisterVersionsResponse](#)  
[UpdateCashRegisterVersionsResponse1](#)  
[UpdateTransportModuleCertificate](#)  
[UpdateTransportModuleCertificateRequest](#)

[UpdateTransportModuleCertificateResponse](#)

[UpdateTransportModuleCertificateResponse1](#)

## **Interfaces**

[ServiceCompanyCashRegisterWebService](#)

[ServiceCompanyCashRegisterWebServiceChannel](#)

## **Enums**

[CashRegisterOwnerType](#)

[CashRegisterPlaceType](#)

[CashRegisterPurpose](#)

[Locale](#)

[OperationStatus](#)

[Problem](#)

[SecurityModuleCertificateStatusEnum](#)

[ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration](#)

[Status](#)

[TransportModuleCertificateStatusEnum](#)

# Class Address

## Inheritance

[object](#)

Address

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Address
```

## Properties

### address

#### Declaration

```
public string address { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### addressId

#### Declaration

```
public long addressId { get; set; }
```

#### Property Value

#### Type Description

[long](#)

# Class AddressItem

## Inheritance

[object](#)

AddressItem

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AddressItem
```

## Properties

### identifier

#### Declaration

```
public int identifier { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### identifierSpecified

#### Declaration

```
public bool identifierSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### name

#### Declaration

```
public string name { get; set; }
```

#### Property Value

#### Type Description

[string](#)



# Class CancelCashRegister

## Inheritance

[object](#)

CancelCashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class CancelCashRegister
```

## Constructors

### CancelCashRegister()

#### Declaration

```
public CancelCashRegister()
```

### CancelCashRegister(CancelCashRegisterRequest)

#### Declaration

```
public CancelCashRegister(CancelCashRegisterRequest CancelCashRegisterRequest)
```

#### Parameters

Type	Name	Description
<a href="#">CancelCashRegisterRequest</a>	CancelCashRegisterRequest	

## Fields

### CancelCashRegisterRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public CancelCashRegisterRequest CancelCashRegisterRequest
```

#### Field Value

Type	Description
<a href="#">CancelCashRegisterRequest</a>	

# Class CancelCashRegisterRequest

## Inheritance

[object](#)

CancelCashRegisterRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CancelCashRegisterRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class CancelCashRegisterResponse

## Inheritance

[object](#)

CancelCashRegisterResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CancelCashRegisterResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Class CancelCashRegisterResponse1

## Inheritance

[object](#)

CancelCashRegisterResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class CancelCashRegisterResponse1
```

## Constructors

### CancelCashRegisterResponse1()

#### Declaration

```
public CancelCashRegisterResponse1()
```

### CancelCashRegisterResponse1(CancelCashRegisterResponse)

#### Declaration

```
public CancelCashRegisterResponse1(CancelCashRegisterResponse CancelCashRegisterResponse)
```

#### Parameters

Type	Name	Description
<a href="#">CancelCashRegisterResponse</a>	CancelCashRegisterResponse	

## Fields

### CancelCashRegisterResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public CancelCashRegisterResponse CancelCashRegisterResponse
```

#### Field Value

Type	Description
<a href="#">CancelCashRegisterResponse</a>	

# Class CashRegisterInformation

## Inheritance

[object](#)

CashRegisterInformation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegisterInformation
```

## Properties

### GT

#### Declaration

```
public decimal GT { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### GTSpecified

#### Declaration

```
public bool GTSpecified { get; set; }
```

#### Property Value

##### Type Description

[bool](#)

### cashRegisterAddressId

#### Declaration

```
public long cashRegisterAddressId { get; set; }
```

#### Property Value

##### Type Description

[long](#)

### cashRegisterAddressIdSpecified

#### Declaration

```
public bool cashRegisterAddressIdSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**cashRegisterAddressName**

**Declaration**

```
public string cashRegisterAddressName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterHardwareVersionID**

**Declaration**

```
public long cashRegisterHardwareVersionID { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**cashRegisterHardwareVersionIDSpecified**

**Declaration**

```
public bool cashRegisterHardwareVersionIDSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**cashRegisterModelNo**

**Declaration**

```
public long cashRegisterModelNo { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**cashRegisterModelNoSpecified**

**Declaration**

```
public bool cashRegisterModelNoSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## cashRegisterOwnerCode

### Declaration

```
public string cashRegisterOwnerCode { get; set; }
```

### Property Value

### Type Description

[string](#)

## cashRegisterOwnerName

### Declaration

```
public string cashRegisterOwnerName { get; set; }
```

### Property Value

### Type Description

[string](#)

## cashRegisterOwnerType

### Declaration

```
public CashRegisterOwnerType cashRegisterOwnerType { get; set; }
```

### Property Value

Type	Description
------	-------------

[CashRegisterOwnerType](#)

## cashRegisterPlaceType

### Declaration

```
public CashRegisterPlaceType cashRegisterPlaceType { get; set; }
```

### Property Value

Type	Description
------	-------------

[CashRegisterPlaceType](#)

## cashRegisterProblems

### Declaration

```
public CashRegisterProblem[] cashRegisterProblems { get; set; }
```

### Property Value

Type	Description
------	-------------

[CashRegisterProblem\[\]](#)

## cashRegisterPurpose

### Declaration

```
public CashRegisterPurpose cashRegisterPurpose { get; set; }
```

### Property Value

**Type Description**

[CashRegisterPurpose](#)

**cashRegisterSeriesNo**

**Declaration**

```
public string cashRegisterSeriesNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterSoftwareVersionID**

**Declaration**

```
public long cashRegisterSoftwareVersionID { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**cashRegisterSoftwareVersionIDSpecified**

**Declaration**

```
public bool cashRegisterSoftwareVersionIDSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**certifiedEmployeeID**

**Declaration**

```
public long certifiedEmployeeID { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**certifiedEmployeeIDSpecified**

**Declaration**

```
public bool certifiedEmployeeIDSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**employee**

**Declaration**



```
public string employee { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**fiscalDayDateTime**

**Declaration**

```
public DateTime fiscalDayDateTime { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**fiscalDayDateTimeSpecified**

**Declaration**

```
public bool fiscalDayDateTimeSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**fiscalDayNo**

**Declaration**

```
public string fiscalDayNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**imisNo**

**Declaration**

```
public string imisNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**otherCashRegisterAddress**

**Declaration**

```
public OtherCashRegisterAddress otherCashRegisterAddress { get; set; }
```

**Property Value**

**Type Description**

[OtherCashRegisterAddress](#)

## **securityModuleHardwareVersionID**

### **Declaration**

```
public long securityModuleHardwareVersionID { get; set; }
```

### **Property Value**

### **Type Description**

[long](#)

## **securityModuleHardwareVersionIDSpecified**

### **Declaration**

```
public bool securityModuleHardwareVersionIDSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **securityModuleIdentificationNo**

### **Declaration**

```
public string securityModuleIdentificationNo { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **securityModuleSeriesNo**

### **Declaration**

```
public string securityModuleSeriesNo { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **securityModuleSoftwareVersionID**

### **Declaration**

```
public long securityModuleSoftwareVersionID { get; set; }
```

### **Property Value**

### **Type Description**

[long](#)

## **securityModuleSoftwareVersionIDSpecified**

### **Declaration**

```
public bool securityModuleSoftwareVersionIDSpecified { get; set; }
```

### **Property Value**

## Type Description

[bool](#)

### status

#### Declaration

```
public Status status { get; set; }
```

#### Property Value

## Type Description

[Status](#)

### statusSpecified

#### Declaration

```
public bool statusSpecified { get; set; }
```

#### Property Value

## Type Description

[bool](#)

### technicalPassportNo

#### Declaration

```
public string technicalPassportNo { get; set; }
```

#### Property Value

## Type Description

[string](#)

### technicalPassportSerialNo

#### Declaration

```
public string technicalPassportSerialNo { get; set; }
```

#### Property Value

## Type Description

[string](#)

### workingNameOfCashRegister

#### Declaration

```
public string workingNameOfCashRegister { get; set; }
```

#### Property Value

## Type Description

[string](#)

# Enum CashRegisterOwnerType

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CashRegisterOwnerType
```

## Fields

Name	Description
INDIVIDUAL	
LEGAL_PERSON	

# Enum CashRegisterPlaceType

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CashRegisterPlaceType
```

## Fields

Name	Description
DEVICE	
OTHER	

# Class CashRegisterProblem

## Inheritance

[object](#)

CashRegisterProblem

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegisterProblem
```

## Properties

### problem

#### Declaration

```
public Problem problem { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Problem</a>	
-------------------------	--

### problemDate

#### Declaration

```
public DateTime problemDate { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

# Enum CashRegisterPurpose

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CashRegisterPurpose
```

## Fields

Name	Description
FOR_USE	
RESERVE	
TRAINING	

# Class CashRegisterRegistration

## Inheritance

[object](#)

CashRegisterRegistration

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegisterRegistration
```

## Properties

### cashRegisterInformation

#### Declaration

```
public CashRegisterInformation cashRegisterInformation { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">CashRegisterInformation</a>	
---	--

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### securityModuleCertificateStatus

#### Declaration



```
public SecurityModuleCertificateStatusEnum securityModuleCertificateStatus { get; set; }
```

**Property Value**

Type	Description
<a href="#">SecurityModuleCertificateStatusEnum</a>	

### **securityModuleCertificateStatusSpecified**

**Declaration**

```
public bool securityModuleCertificateStatusSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

### **securityModuleCertificateValidTo**

**Declaration**

```
public DateTime securityModuleCertificateValidTo { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

### **securityModuleCertificateValidToSpecified**

**Declaration**

```
public bool securityModuleCertificateValidToSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

### **securityModuleRegistrationNo**

**Declaration**

```
public string securityModuleRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

### **transportModuleCertificateStatus**

**Declaration**

```
public TransportModuleCertificateStatusEnum transportModuleCertificateStatus { get; set; }
```

**Property Value**

Type	Description
<a href="#">TransportModuleCertificateStatusEnum</a>	

## **transportModuleCertificateStatusSpecified**

### **Declaration**

```
public bool transportModuleCertificateStatusSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

## **transportModuleCertificateValidTo**

### **Declaration**

```
public DateTime transportModuleCertificateValidTo { get; set; }
```

### **Property Value**

### **Type Description**

[DateTime](#)

## **transportModuleCertificateValidToSpecified**

### **Declaration**

```
public bool transportModuleCertificateValidToSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

# Class ChangeServiceCompany

## Inheritance

[object](#)

ChangeServiceCompany

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class ChangeServiceCompany
```

## Constructors

### ChangeServiceCompany()

#### Declaration

```
public ChangeServiceCompany()
```

### ChangeServiceCompany(ChangeServiceCompanyRequest)

#### Declaration

```
public ChangeServiceCompany(ChangeServiceCompanyRequest ChangeServiceCompanyRequest)
```

#### Parameters

Type	Name	Description
<a href="#">ChangeServiceCompanyRequest</a>	ChangeServiceCompanyRequest	

## Fields

### ChangeServiceCompanyRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ChangeServiceCompanyRequest ChangeServiceCompanyRequest
```

#### Field Value

Type	Description
<a href="#">ChangeServiceCompanyRequest</a>	

# Class ChangeServiceCompanyRequest

## Inheritance

[object](#)

ChangeServiceCompanyRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ChangeServiceCompanyRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class ChangeServiceCompanyResponse

## Inheritance

[object](#)

ChangeServiceCompanyResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ChangeServiceCompanyResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Class ChangeServiceCompanyResponse1

## Inheritance

[object](#)

ChangeServiceCompanyResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class ChangeServiceCompanyResponse1
```

## Constructors

### ChangeServiceCompanyResponse1()

#### Declaration

```
public ChangeServiceCompanyResponse1()
```

### ChangeServiceCompanyResponse1(ChangeServiceCompanyResponse)

#### Declaration

```
public ChangeServiceCompanyResponse1(ChangeServiceCompanyResponse ChangeServiceCompanyResponse)
```

#### Parameters

Type	Name	Description
<a href="#">ChangeServiceCompanyResponse</a>	ChangeServiceCompanyResponse	

## Fields

### ChangeServiceCompanyResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ChangeServiceCompanyResponse ChangeServiceCompanyResponse
```

#### Field Value

Type	Description
<a href="#">ChangeServiceCompanyResponse</a>	

# Class Description

## Inheritance

[object](#)

Description

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Description
```

## Properties

### errorMessage

#### Declaration

```
public string errorMessage { get; set; }
```

#### Property Value

### Type Description

[string](#)

### locale

#### Declaration

```
public Locale locale { get; set; }
```

#### Property Value

### Type Description

[Locale](#)

# Class Error

## Inheritance

[object](#)

Error

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Error
```

## Properties

### descriptions

#### Declaration

```
public Description[] descriptions { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Description[]</a>	
-------------------------------	--

### errorCode

#### Declaration

```
public string errorCode { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--



# Class GetBusinessAddress

## Inheritance

[object](#)

GetBusinessAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetBusinessAddress
```

## Constructors

### GetBusinessAddress()

#### Declaration

```
public GetBusinessAddress()
```

### GetBusinessAddress(GetBusinessAddressRequest)

#### Declaration

```
public GetBusinessAddress(GetBusinessAddressRequest GetBusinessAddressRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetBusinessAddressRequest</a>	GetBusinessAddressRequest	

## Fields

### GetBusinessAddressRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetBusinessAddressRequest GetBusinessAddressRequest
```

#### Field Value

Type	Description
<a href="#">GetBusinessAddressRequest</a>	

# Class GetBusinessAddressRequest

## Inheritance

[object](#)

GetBusinessAddressRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetBusinessAddressRequest
```

## Properties

### name

#### Declaration

```
public string name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### personCode

#### Declaration

```
public string personCode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### surname

#### Declaration

```
public string surname { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class GetBusinessAddressResponse

## Inheritance

[object](#)

GetBusinessAddressResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetBusinessAddressResponse
```

## Properties

### addresses

#### Declaration

```
public Address[] addresses { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Address[]</a>	
---------------------------	--

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Error</a>	
-----------------------	--

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">OperationStatus</a>	
---------------------------------	--

# Class GetBusinessAddressResponse1

## Inheritance

[object](#)

GetBusinessAddressResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetBusinessAddressResponse1
```

## Constructors

### GetBusinessAddressResponse1()

#### Declaration

```
public GetBusinessAddressResponse1()
```

### GetBusinessAddressResponse1(GetBusinessAddressResponse)

#### Declaration

```
public GetBusinessAddressResponse1(GetBusinessAddressResponse GetBusinessAddressResponse)
```

#### Parameters

Type	Name	Description
<a href="#">GetBusinessAddressResponse</a>	GetBusinessAddressResponse	

## Fields

### GetBusinessAddressResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetBusinessAddressResponse GetBusinessAddressResponse
```

#### Field Value

Type	Description
<a href="#">GetBusinessAddressResponse</a>	

## Class GetServicedCashRegisterInformationByRegistrationID

### Inheritance

[object](#)

GetServicedCashRegisterInformationByRegistrationID

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedCashRegisterInformationByRegistrationID
```

### Constructors

#### GetServicedCashRegisterInformationByRegistrationID()

##### Declaration

```
public GetServicedCashRegisterInformationByRegistrationID()
```

#### GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationIDRequest)

##### Declaration

```
public GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationIDRequest GetServicedCashRegisterInformationByRegistrationIDRequest)
```

##### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDRequest</a>	GetServicedCashRegisterInformationByRegistrationIDRequest	

### Fields

#### GetServicedCashRegisterInformationByRegistrationIDRequest

##### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegisterInformationByRegistrationIDRequest GetServicedCashRegisterInformationByRegistrationIDRequest
```

##### Field Value

Type	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDRequest</a>	

# Class GetServicedCashRegisterInformationByRegistrationIDRequest

## Inheritance

[object](#)

GetServicedCashRegisterInformationByRegistrationIDRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedCashRegisterInformationByRegistrationIDRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class GetServicedCashRegisterInformationByRegistrationIDResponse

## Inheritance

[object](#)

GetServicedCashRegisterInformationByRegistrationIDResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedCashRegisterInformationByRegistrationIDResponse
```

## Properties

### cashRegisterInformation

#### Declaration

```
public CashRegisterInformation cashRegisterInformation { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterInformation</a>	

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### securityModuleCertificateStatus

#### Declaration

```
public SecurityModuleCertificateStatusEnum securityModuleCertificateStatus { get; set; }
```

#### Property Value

Type	Description
<a href="#">SecurityModuleCertificateStatusEnum</a>	

### securityModuleCertificateStatusSpecified

#### Declaration

```
public bool securityModuleCertificateStatusSpecified { get; set; }
```

**Property Value**

#### **Type Description**

[bool](#)

### **securityModuleCertificateValidTo**

**Declaration**

```
public DateTime securityModuleCertificateValidTo { get; set; }
```

**Property Value**

#### **Type Description**

[DateTime](#)

### **securityModuleCertificateValidToSpecified**

**Declaration**

```
public bool securityModuleCertificateValidToSpecified { get; set; }
```

**Property Value**

#### **Type Description**

[bool](#)

### **status**

**Declaration**

```
public OperationStatus status { get; set; }
```

**Property Value**

#### **Type Description**

[OperationStatus](#)

### **transportModuleCertificateStatus**

**Declaration**

```
public TransportModuleCertificateStatusEnum transportModuleCertificateStatus { get; set; }
```

**Property Value**

#### **Type Description**

[TransportModuleCertificateStatusEnum](#)

### **transportModuleCertificateStatusSpecified**

**Declaration**

```
public bool transportModuleCertificateStatusSpecified { get; set; }
```

**Property Value**

#### **Type Description**

[bool](#)



## transportModuleCertificateValidTo

### Declaration

```
public DateTime transportModuleCertificateValidTo { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

## transportModuleCertificateValidToSpecified

### Declaration

```
public bool transportModuleCertificateValidToSpecified { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

# Class GetServicedCashRegisterInformationByRegistrationIDResponse1

## Inheritance

[object](#)

GetServicedCashRegisterInformationByRegistrationIDResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedCashRegisterInformationByRegistrationIDResponse1
```

## Constructors

### GetServicedCashRegisterInformationByRegistrationIDResponse1()

#### Declaration

```
public GetServicedCashRegisterInformationByRegistrationIDResponse1()
```

### GetServicedCashRegisterInformationByRegistrationIDResponse1(GetServicedCashRegisterInformationByRegistrationIDResponse)

#### Declaration

```
public GetServicedCashRegisterInformationByRegistrationIDResponse1(GetServicedCashRegisterInformationByRegistrationIDResponse GetServicedCashRegisterInformationByRegistrationIDRe:
```

## Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDResponse</a>	GetServicedCashRegisterInformationByRegistrationIDResponse	

## Fields

### GetServicedCashRegisterInformationByRegistrationIDResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegisterInformationByRegistrationIDResponse GetServicedCashRegisterInformationByRegistrationIDResponse
```

## Field Value

Type	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDResponse</a>	

# Class GetServicedCashRegisters

## Inheritance

[object](#)

GetServicedCashRegisters

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedCashRegisters
```

## Constructors

### GetServicedCashRegisters()

#### Declaration

```
public GetServicedCashRegisters()
```

### GetServicedCashRegisters(GetServicedCashRegistersRequest)

#### Declaration

```
public GetServicedCashRegisters(GetServicedCashRegistersRequest GetServicedCashRegistersRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegistersRequest</a>	GetServicedCashRegistersRequest	

## Fields

### GetServicedCashRegistersRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegistersRequest GetServicedCashRegistersRequest
```

#### Field Value

Type	Description
<a href="#">GetServicedCashRegistersRequest</a>	

# Class GetServicedCashRegistersRequest

## Inheritance

[object](#)

GetServicedCashRegistersRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedCashRegistersRequest
```

## Properties

### page

#### Declaration

```
public int page { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### pageSize

#### Declaration

```
public int pageSize { get; set; }
```

#### Property Value

#### Type Description

[int](#)

# Class GetServicedCashRegistersResponse

## Inheritance

[object](#)

GetServicedCashRegistersResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedCashRegistersResponse
```

## Properties

### cashRegisterRegistrations

#### Declaration

```
public CashRegisterRegistration[] cashRegisterRegistrations { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterRegistration[]</a>	

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
<a href="#">OperationStatus</a>	

### totalElements

#### Declaration

```
public int totalElements { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**totalElementsSpecified**

**Declaration**

```
public bool totalElementsSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**totalPages**

**Declaration**

```
public int totalPages { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**totalPagesSpecified**

**Declaration**

```
public bool totalPagesSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class GetServicedCashRegistersResponse1

## Inheritance

[object](#)

GetServicedCashRegistersResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedCashRegistersResponse1
```

## Constructors

### GetServicedCashRegistersResponse1()

#### Declaration

```
public GetServicedCashRegistersResponse1()
```

### GetServicedCashRegistersResponse1(GetServicedCashRegistersResponse)

#### Declaration

```
public GetServicedCashRegistersResponse1(GetServicedCashRegistersResponse GetServicedCashRegistersResponse)
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegistersResponse</a>	GetServicedCashRegistersResponse	

## Fields

### GetServicedCashRegistersResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegistersResponse GetServicedCashRegistersResponse
```

#### Field Value

Type	Description
<a href="#">GetServicedCashRegistersResponse</a>	

# Class GetServicedUserCashRegisterInformationByRegistrationID

## Inheritance

[object](#)

GetServicedUserCashRegisterInformationByRegistrationID

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedUserCashRegisterInformationByRegistrationID
```

## Constructors

### GetServicedUserCashRegisterInformationByRegistrationID()

#### Declaration

```
public GetServicedUserCashRegisterInformationByRegistrationID()
```

### GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationIDRequest)

#### Declaration

```
public GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationIDRequest GetServicedUserCashRegisterInformationByRegistrationID)
```

## Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDRequest</a>	GetServicedUserCashRegisterInformationByRegistrationIDRequest	

## Fields

### GetServicedUserCashRegisterInformationByRegistrationIDRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegisterInformationByRegistrationIDRequest GetServicedUserCashRegisterInformationByRegistrationIDRequest
```

## Field Value

Type	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDRequest</a>	



# Class GetServicedUserCashRegisterInformationByRegistrationIDRequest

## Inheritance

[object](#)

GetServicedUserCashRegisterInformationByRegistrationIDRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedUserCashRegisterInformationByRegistrationIDRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class GetServicedUserCashRegisterInformationByRegistrationIDResponse

## Inheritance

[object](#)

GetServicedUserCashRegisterInformationByRegistrationIDResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedUserCashRegisterInformationByRegistrationIDResponse
```

## Properties

### cashRegisterInformation

#### Declaration

```
public CashRegisterInformation cashRegisterInformation { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterInformation</a>	

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### securityModuleCertificateValidTo

#### Declaration

```
public DateTime securityModuleCertificateValidTo { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### securityModuleCertificateValidToSpecified

#### Declaration

```
public bool securityModuleCertificateValidToSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**status**

**Declaration**

```
public OperationStatus status { get; set; }
```

**Property Value**

**Type Description**

[OperationStatus](#)

**transportModuleCertificateValidTo**

**Declaration**

```
public DateTime transportModuleCertificateValidTo { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**transportModuleCertificateValidToSpecified**

**Declaration**

```
public bool transportModuleCertificateValidToSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class GetServicedUserCashRegisterInformationByRegistrationIDResponse1

## Inheritance

[object](#)

GetServicedUserCashRegisterInformationByRegistrationIDResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedUserCashRegisterInformationByRegistrationIDResponse1
```

## Constructors

### GetServicedUserCashRegisterInformationByRegistrationIDResponse1()

#### Declaration

```
public GetServicedUserCashRegisterInformationByRegistrationIDResponse1()
```

### GetServicedUserCashRegisterInformationByRegistrationIDResponse1(GetServicedUserCashRegisterInformationByRegistrationIDResponse)

#### Declaration

```
public GetServicedUserCashRegisterInformationByRegistrationIDResponse1(GetServicedUserCashRegisterInformationByRegistrationIDResponse GetServicedUserCashRegisterInformationByRegi:
```

## Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDResponse</a>	GetServicedUserCashRegisterInformationByRegistrationIDResponse	

## Fields

### GetServicedUserCashRegisterInformationByRegistrationIDResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegisterInformationByRegistrationIDResponse GetServicedUserCashRegisterInformationByRegistrationIDResponse
```

## Field Value

Type	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDResponse</a>	

# Class GetServicedUserCashRegisters

## Inheritance

[object](#)

GetServicedUserCashRegisters

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedUserCashRegisters
```

## Constructors

### GetServicedUserCashRegisters()

#### Declaration

```
public GetServicedUserCashRegisters()
```

### GetServicedUserCashRegisters(GetServicedUserCashRegistersRequest)

#### Declaration

```
public GetServicedUserCashRegisters(GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegistersRequest</a>	GetServicedUserCashRegistersRequest	

## Fields

### GetServicedUserCashRegistersRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest
```

#### Field Value

Type	Description
<a href="#">GetServicedUserCashRegistersRequest</a>	

# Class GetServicedUserCashRegistersRequest

## Inheritance

[object](#)

GetServicedUserCashRegistersRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedUserCashRegistersRequest
```

## Properties

### name

#### Declaration

```
public string name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### page

#### Declaration

```
public int page { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### pageSize

#### Declaration

```
public int pageSize { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### personCode

#### Declaration

```
public string personCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**surname**

**Declaration**

```
public string surname { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class GetServicedUserCashRegistersResponse

## Inheritance

[object](#)

GetServicedUserCashRegistersResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServicedUserCashRegistersResponse
```

## Properties

### cashRegisterRegistrations

#### Declaration

```
public CashRegisterRegistration[] cashRegisterRegistrations { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterRegistration[]</a>	

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
<a href="#">OperationStatus</a>	

### totalElements

#### Declaration



```
public int totalElements { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**totalElementsSpecified**

**Declaration**

```
public bool totalElementsSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**totalPages**

**Declaration**

```
public int totalPages { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**totalPagesSpecified**

**Declaration**

```
public bool totalPagesSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class GetServicedUserCashRegistersResponse1

## Inheritance

[object](#)

GetServicedUserCashRegistersResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServicedUserCashRegistersResponse1
```

## Constructors

### GetServicedUserCashRegistersResponse1()

#### Declaration

```
public GetServicedUserCashRegistersResponse1 ()
```

### GetServicedUserCashRegistersResponse1(GetServicedUserCashRegistersResponse)

#### Declaration

```
public GetServicedUserCashRegistersResponse1 (GetServicedUserCashRegistersResponse GetServicedUserCashRegistersResponse)
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegistersResponse</a>	GetServicedUserCashRegistersResponse	

## Fields

### GetServicedUserCashRegistersResponse

#### Declaration

```
[MessageBodyMember (Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegistersResponse GetServicedUserCashRegistersResponse
```

#### Field Value

Type	Description
<a href="#">GetServicedUserCashRegistersResponse</a>	

# Enum Locale

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum Locale
```

## Fields

Name	Description
------	-------------

EN	
----	--

LT	
----	--

# Enum OperationStatus

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum OperationStatus
```

## Fields

Name	Description
ERROR	
SUCCESS	

# Class OtherCashRegisterAddress

## Inheritance

[object](#)

OtherCashRegisterAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class OtherCashRegisterAddress
```

## Properties

### apartmentNo

#### Declaration

```
public string apartmentNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### houseNo

#### Declaration

```
public string houseNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### municipality

#### Declaration

```
public AddressItem municipality { get; set; }
```

#### Property Value

Type	Description
------	-------------

[AddressItem](#)

### settlement

#### Declaration

```
public AddressItem settlement { get; set; }
```

**Property Value**

Type	Description
<a href="#">AddressItem</a>	

**street**

**Declaration**

```
public AddressItem street { get; set; }
```

**Property Value**

Type	Description
<a href="#">AddressItem</a>	

# Enum Problem

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum Problem
```

## Fields

Name	Description
INVALID_ADDRESS	
MODEL_EXCLUDED	
NO_RECEIPTS_DATA	
NO_SM_SETTINGS	
SM_INVALID_CERTIFICATE	
TM_INVALID_CERTIFICATE	
USER_HAS_NO_LEGAL_ACTIVITY	

# Class RegisterCashRegister

## Inheritance

[object](#)

RegisterCashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class RegisterCashRegister
```

## Constructors

### RegisterCashRegister()

#### Declaration

```
public RegisterCashRegister()
```

### RegisterCashRegister(RegisterCashRegisterRequest)

#### Declaration

```
public RegisterCashRegister(RegisterCashRegisterRequest RegisterCashRegisterRequest)
```

#### Parameters

Type	Name	Description
<a href="#">RegisterCashRegisterRequest</a>	RegisterCashRegisterRequest	

## Fields

### RegisterCashRegisterRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterCashRegisterRequest RegisterCashRegisterRequest
```

#### Field Value

Type	Description
<a href="#">RegisterCashRegisterRequest</a>	



# Class RegisterCashRegisterRequest

## Inheritance

[object](#)

RegisterCashRegisterRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RegisterCashRegisterRequest
```

## Properties

### cashRegisterInformation

#### Declaration

```
public CashRegisterInformation cashRegisterInformation { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterInformation</a>	

# Class RegisterCashRegisterResponse

## Inheritance

[object](#)

RegisterCashRegisterResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RegisterCashRegisterResponse
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### securityModuleRegistrationNo

#### Declaration

```
public string securityModuleRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**status**

**Declaration**

```
public OperationStatus status { get; set; }
```

**Property Value**

**Type Description**

[OperationStatus](#)

# Class RegisterCashRegisterResponse1

## Inheritance

[object](#)

RegisterCashRegisterResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class RegisterCashRegisterResponse1
```

## Constructors

### RegisterCashRegisterResponse1()

#### Declaration

```
public RegisterCashRegisterResponse1()
```

### RegisterCashRegisterResponse1(RegisterCashRegisterResponse)

#### Declaration

```
public RegisterCashRegisterResponse1(RegisterCashRegisterResponse RegisterCashRegisterResponse)
```

#### Parameters

Type	Name	Description
<a href="#">RegisterCashRegisterResponse</a>	RegisterCashRegisterResponse	

## Fields

### RegisterCashRegisterResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterCashRegisterResponse RegisterCashRegisterResponse
```

#### Field Value

Type	Description
<a href="#">RegisterCashRegisterResponse</a>	

# Class RegisterTransportModuleCertificate

## Inheritance

[object](#)

RegisterTransportModuleCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class RegisterTransportModuleCertificate
```

## Constructors

### RegisterTransportModuleCertificate()

#### Declaration

```
public RegisterTransportModuleCertificate()
```

### RegisterTransportModuleCertificate(RegisterTransportModuleCertificateRequest)

#### Declaration

```
public RegisterTransportModuleCertificate(RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">RegisterTransportModuleCertificateRequest</a>	RegisterTransportModuleCertificateRequest	

## Fields

### RegisterTransportModuleCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest
```

#### Field Value

Type	Description
<a href="#">RegisterTransportModuleCertificateRequest</a>	

# Class RegisterTransportModuleCertificateRequest

## Inheritance

[object](#)

RegisterTransportModuleCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RegisterTransportModuleCertificateRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certificate

#### Declaration

```
public byte[] certificate { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

# Class RegisterTransportModuleCertificateResponse

## Inheritance

[object](#)

RegisterTransportModuleCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RegisterTransportModuleCertificateResponse
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">OperationStatus</a>	
---------------------------------	--

# Class RegisterTransportModuleCertificateResponse1

## Inheritance

[object](#)

RegisterTransportModuleCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class RegisterTransportModuleCertificateResponse1
```

## Constructors

### RegisterTransportModuleCertificateResponse1()

#### Declaration

```
public RegisterTransportModuleCertificateResponse1()
```

### RegisterTransportModuleCertificateResponse1(RegisterTransportModuleCertificateResponse)

#### Declaration

```
public RegisterTransportModuleCertificateResponse1(RegisterTransportModuleCertificateResponse RegisterTransportModuleCertificateResponse)
```

#### Parameters

Type	Name	Description
<a href="#">RegisterTransportModuleCertificateResponse</a>	RegisterTransportModuleCertificateResponse	

## Fields

### RegisterTransportModuleCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterTransportModuleCertificateResponse RegisterTransportModuleCertificateResponse
```

#### Field Value

Type	Description
<a href="#">RegisterTransportModuleCertificateResponse</a>	



# Class ReregisterCashRegister

## Inheritance

[object](#)

ReregisterCashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class ReregisterCashRegister
```

## Constructors

### ReregisterCashRegister()

#### Declaration

```
public ReregisterCashRegister()
```

### ReregisterCashRegister(ReregisterCashRegisterRequest)

#### Declaration

```
public ReregisterCashRegister(ReregisterCashRegisterRequest ReregisterCashRegisterRequest)
```

#### Parameters

Type	Name	Description
<a href="#">ReregisterCashRegisterRequest</a>	ReregisterCashRegisterRequest	

## Fields

### ReregisterCashRegisterRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ReregisterCashRegisterRequest ReregisterCashRegisterRequest
```

#### Field Value

Type	Description
<a href="#">ReregisterCashRegisterRequest</a>	

# Class ReregisterCashRegisterRequest

## Inheritance

[object](#)

ReregisterCashRegisterRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReregisterCashRegisterRequest
```

## Properties

### GT

#### Declaration

```
public decimal GT { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### GTSpecified

#### Declaration

```
public bool GTSpecified { get; set; }
```

#### Property Value

##### Type Description

[bool](#)

### cashRegisterAddressId

#### Declaration

```
public long cashRegisterAddressId { get; set; }
```

#### Property Value

##### Type Description

[long](#)

### cashRegisterAddressIdSpecified

#### Declaration

```
public bool cashRegisterAddressIdSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**cashRegisterOwnerCode**

**Declaration**

```
public string cashRegisterOwnerCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterOwnerName**

**Declaration**

```
public string cashRegisterOwnerName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterOwnerSurname**

**Declaration**

```
public string cashRegisterOwnerSurname { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterOwnerType**

**Declaration**

```
public string cashRegisterOwnerType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterPlaceType**

**Declaration**

```
public CashRegisterPlaceType cashRegisterPlaceType { get; set; }
```

**Property Value**

**Type**      **Description**

[CashRegisterPlaceType](#)

## cashRegisterRegistrationID

### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

### Property Value

### Type Description

[string](#)

## cashRegisterRegistrationNo

### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

### Property Value

### Type Description

[string](#)

## certifiedEmployeeID

### Declaration

```
public long certifiedEmployeeID { get; set; }
```

### Property Value

### Type Description

[long](#)

## certifiedEmployeeIDSpecified

### Declaration

```
public bool certifiedEmployeeIDSpecified { get; set; }
```

### Property Value

### Type Description

[bool](#)

## employee

### Declaration

```
public string employee { get; set; }
```

### Property Value

### Type Description

[string](#)

## fiscalDayDateTime

### Declaration

```
public DateTime fiscalDayDateTime { get; set; }
```

### Property Value

**Type Description**

[DateTime](#)

**fiscalDayDateTimeSpecified**

**Declaration**

```
public bool fiscalDayDateTimeSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**fiscalDayNo**

**Declaration**

```
public string fiscalDayNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**otherCashRegisterAddress**

**Declaration**

```
public OtherCashRegisterAddress otherCashRegisterAddress { get; set; }
```

**Property Value**

**Type Description**

[OtherCashRegisterAddress](#)

**securityModuleRegistrationNo**

**Declaration**

```
public string securityModuleRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class ReregisterCashRegisterResponse

## Inheritance

[object](#)

ReregisterCashRegisterResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReregisterCashRegisterResponse
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">OperationStatus</a>	
---------------------------------	--

# Class ReregisterCashRegisterResponse1

## Inheritance

[object](#)

ReregisterCashRegisterResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class ReregisterCashRegisterResponse1
```

## Constructors

### ReregisterCashRegisterResponse1()

#### Declaration

```
public ReregisterCashRegisterResponse1()
```

### ReregisterCashRegisterResponse1(ReregisterCashRegisterResponse)

#### Declaration

```
public ReregisterCashRegisterResponse1(ReregisterCashRegisterResponse ReregisterCashRegisterResponse)
```

#### Parameters

Type	Name	Description
<a href="#">ReregisterCashRegisterResponse</a>	ReregisterCashRegisterResponse	

## Fields

### ReregisterCashRegisterResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ReregisterCashRegisterResponse ReregisterCashRegisterResponse
```

#### Field Value

Type	Description
<a href="#">ReregisterCashRegisterResponse</a>	

# Enum SecurityModuleCertificateStatusEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SecurityModuleCertificateStatusEnum
```

## Fields

Name	Description
ACTIVATED	
DEACTIVATED	
NOT_ACTIVATED	



# Interface ServiceCompanyCashRegisterWebService

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[ServiceContract(Namespace = "http://cash-register.ieka.vmi.lt", ConfigurationName = "RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService.Se")
public interface ServiceCompanyCashRegisterWebService
```

## Methods

### CancelCashRegister(CancelCashRegister)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
CancelCashRegisterResponse1 CancelCashRegister(CancelCashRegister request)
```

#### Parameters

Type	Name	Description
<a href="#">CancelCashRegister</a>	request	

#### Returns

Type	Description
<a href="#">CancelCashRegisterResponse1</a>	

### CancelCashRegisterAsync(CancelCashRegister)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<CancelCashRegisterResponse1> CancelCashRegisterAsync(CancelCashRegister request)
```

#### Parameters

Type	Name	Description
<a href="#">CancelCashRegister</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;CancelCashRegisterResponse1&gt;</a>	

### ChangeServiceCompany(ChangeServiceCompany)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
ChangeServiceCompanyResponse1 ChangeServiceCompany(ChangeServiceCompany request)
```

#### Parameters

Type	Name	Description
<a href="#">ChangeServiceCompany</a>	request	

#### Returns

Type	Description
<a href="#">ChangeServiceCompanyResponse1</a>	

### ChangeServiceCompanyAsync(ChangeServiceCompany)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<ChangeServiceCompanyResponse1> ChangeServiceCompanyAsync(ChangeServiceCompany request)
```

#### Parameters

Type	Name	Description
<a href="#">ChangeServiceCompany</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;ChangeServiceCompanyResponse1&gt;</a>	

### GetBusinessAddress(GetBusinessAddress)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
GetBusinessAddressResponse1 GetBusinessAddress(GetBusinessAddress request)
```

#### Parameters

Type	Name	Description
<a href="#">GetBusinessAddress</a>	request	

#### Returns

Type	Description
<a href="#">GetBusinessAddressResponse1</a>	

## GetBusinessAddressAsync(GetBusinessAddress)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetBusinessAddressResponse1> GetBusinessAddressAsync(GetBusinessAddress request)
```

### Parameters

Type	Name	Description
<a href="#">GetBusinessAddress</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetBusinessAddressResponse1&gt;</a>	

## GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationID)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServicedCashRegisterInformationByRegistrationIDResponse1 GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationID request)
```

### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationID</a>	request	

### Returns

Type	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDResponse1</a>	

## GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationID)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetServicedCashRegisterInformationByRegistrationIDResponse1> GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationID request)
```

### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationID</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetServicedCashRegisterInformationByRegistrationIDResponse1&gt;</a>	

## GetServicedCashRegisters(GetServicedCashRegisters)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServicedCashRegistersResponse1 GetServicedCashRegisters(GetServicedCashRegisters request)
```

### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisters</a>	request	

### Returns

Type	Description
<a href="#">GetServicedCashRegistersResponse1</a>	

## GetServicedCashRegistersAsync(GetServicedCashRegisters)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetServicedCashRegistersResponse1> GetServicedCashRegistersAsync(GetServicedCashRegisters request)
```

### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisters</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetServicedCashRegistersResponse1&gt;</a>	

## GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationID)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServicedUserCashRegisterInformationByRegistrationIDResponse1 GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationID request)
```

### Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationID</a>	request	

### Returns

Type	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDResponse1</a>	

### GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationID)

**Declaration**

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<GetServicedUserCashRegisterInformationByRegistrationIDResponse1> GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationID request)
```

**Parameters**

Type	Name	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationID</a>	request	

**Returns**

Type	Description
<a href="#">Task&lt;GetServicedUserCashRegisterInformationByRegistrationIDResponse1&gt;</a>	

### GetServicedUserCashRegisters(GetServicedUserCashRegisters)

**Declaration**

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
GetServicedUserCashRegistersResponse1 GetServicedUserCashRegisters(GetServicedUserCashRegisters request)
```

**Parameters**

Type	Name	Description
<a href="#">GetServicedUserCashRegisters</a>	request	

**Returns**

Type	Description
<a href="#">GetServicedUserCashRegistersResponse1</a>	

### GetServicedUserCashRegistersAsync(GetServicedUserCashRegisters)

**Declaration**

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<GetServicedUserCashRegistersResponse1> GetServicedUserCashRegistersAsync(GetServicedUserCashRegisters request)
```

**Parameters**

Type	Name	Description
<a href="#">GetServicedUserCashRegisters</a>	request	

**Returns**

Type	Description
<a href="#">Task&lt;GetServicedUserCashRegistersResponse1&gt;</a>	

### RegisterCashRegister(RegisterCashRegister)

**Declaration**

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
RegisterCashRegisterResponse1 RegisterCashRegister(RegisterCashRegister request)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterCashRegister</a>	request	

**Returns**

Type	Description
<a href="#">RegisterCashRegisterResponse1</a>	

### RegisterCashRegisterAsync(RegisterCashRegister)

**Declaration**

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<RegisterCashRegisterResponse1> RegisterCashRegisterAsync(RegisterCashRegister request)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterCashRegister</a>	request	

**Returns**

Type	Description
<a href="#">Task&lt;RegisterCashRegisterResponse1&gt;</a>	

### RegisterTransportModuleCertificate(RegisterTransportModuleCertificate)

**Declaration**

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
RegisterTransportModuleCertificateResponse1 RegisterTransportModuleCertificate(RegisterTransportModuleCertificate request)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterTransportModuleCertificate</a>	request	

**Type Name Description**

[RegisterTransportModuleCertificate](#) request

Returns

**Type Description**

[RegisterTransportModuleCertificateResponse](#)

**RegisterTransportModuleCertificateAsync(RegisterTransportModuleCertificate)**

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<RegisterTransportModuleCertificateResponse> RegisterTransportModuleCertificateAsync(RegisterTransportModuleCertificate request)
```

Parameters

**Type Name Description**

[RegisterTransportModuleCertificate](#) request

Returns

**Type Description**

[Task<RegisterTransportModuleCertificateResponse>](#)

**ReregisterCashRegister(ReregisterCashRegister)**

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
ReregisterCashRegisterResponse ReregisterCashRegister(ReregisterCashRegister request)
```

Parameters

**Type Name Description**

[ReregisterCashRegister](#) request

Returns

**Type Description**

[ReregisterCashRegisterResponse](#)

**ReregisterCashRegisterAsync(ReregisterCashRegister)**

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<ReregisterCashRegisterResponse> ReregisterCashRegisterAsync(ReregisterCashRegister request)
```

Parameters

**Type Name Description**

[ReregisterCashRegister](#) request

Returns

**Type Description**

[Task<ReregisterCashRegisterResponse>](#)

**SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWork)**

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
SubmitCashRegisterPreventionWorkResponse SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWork request)
```

Parameters

**Type Name Description**

[SubmitCashRegisterPreventionWork](#) request

Returns

**Type Description**

[SubmitCashRegisterPreventionWorkResponse](#)

**SubmitCashRegisterPreventionWorkAsync(SubmitCashRegisterPreventionWork)**

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<SubmitCashRegisterPreventionWorkResponse> SubmitCashRegisterPreventionWorkAsync(SubmitCashRegisterPreventionWork request)
```

Parameters

**Type Name Description**

[SubmitCashRegisterPreventionWork](#) request

Returns

**Type Description**

[Task<SubmitCashRegisterPreventionWorkResponse>](#)

**UpdateCashRegister(UpdateCashRegister)**

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
UpdateCashRegisterResponse1 UpdateCashRegister(UpdateCashRegister request)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegister</a>	request	

#### Returns

Type	Description
<a href="#">UpdateCashRegisterResponse1</a>	

#### UpdateCashRegisterAddress(UpdateCashRegisterAddress)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
UpdateCashRegisterAddressResponse1 UpdateCashRegisterAddress(UpdateCashRegisterAddress request)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterAddress</a>	request	

#### Returns

Type	Description
<a href="#">UpdateCashRegisterAddressResponse1</a>	

#### UpdateCashRegisterAddressAsync(UpdateCashRegisterAddress)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<UpdateCashRegisterAddressResponse1> UpdateCashRegisterAddressAsync(UpdateCashRegisterAddress request)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterAddress</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;UpdateCashRegisterAddressResponse1&gt;</a>	

#### UpdateCashRegisterAsync(UpdateCashRegister)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<UpdateCashRegisterResponse1> UpdateCashRegisterAsync(UpdateCashRegister request)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegister</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;UpdateCashRegisterResponse1&gt;</a>	

#### UpdateCashRegisterVersions(UpdateCashRegisterVersions)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
UpdateCashRegisterVersionsResponse1 UpdateCashRegisterVersions(UpdateCashRegisterVersions request)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterVersions</a>	request	

#### Returns

Type	Description
<a href="#">UpdateCashRegisterVersionsResponse1</a>	

#### UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersions)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<UpdateCashRegisterVersionsResponse1> UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersions request)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterVersions</a>	request	

#### Returns

Type	Description
<a href="#">Task&lt;UpdateCashRegisterVersionsResponse1&gt;</a>	

## UpdateTransportModuleCertificate(UpdateTransportModuleCertificate)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
UpdateTransportModuleCertificateResponse1 UpdateTransportModuleCertificate(UpdateTransportModuleCertificate request)
```

### Parameters

Type	Name	Description
<a href="#">UpdateTransportModuleCertificate</a>	request	

### Returns

Type	Description
<a href="#">UpdateTransportModuleCertificateResponse1</a>	

## UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificate)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<UpdateTransportModuleCertificateResponse1> UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificate request)
```

### Parameters

Type	Name	Description
<a href="#">UpdateTransportModuleCertificate</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;UpdateTransportModuleCertificateResponse1&gt;</a>	

## Interface ServiceCompanyCashRegisterWebServiceChannel

### Inherited Members

[ServiceCompanyCashRegisterWebService.CancelCashRegister\(CancelCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.CancelCashRegisterAsync\(CancelCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.GetBusinessAddress\(GetBusinessAddress\)](#)  
[ServiceCompanyCashRegisterWebService.GetBusinessAddressAsync\(GetBusinessAddress\)](#)  
[ServiceCompanyCashRegisterWebService.RegisterTransportModuleCertificate\(RegisterTransportModuleCertificate\)](#)  
[ServiceCompanyCashRegisterWebService.RegisterTransportModuleCertificateAsync\(RegisterTransportModuleCertificate\)](#)  
[ServiceCompanyCashRegisterWebService.SubmitCashRegisterPreventionWork\(SubmitCashRegisterPreventionWork\)](#)  
[ServiceCompanyCashRegisterWebService.SubmitCashRegisterPreventionWorkAsync\(SubmitCashRegisterPreventionWork\)](#)  
[ServiceCompanyCashRegisterWebService.RegisterCashRegister\(RegisterCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.RegisterCashRegisterAsync\(RegisterCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.ChangeServiceCompany\(ChangeServiceCompany\)](#)  
[ServiceCompanyCashRegisterWebService.ChangeServiceCompanyAsync\(ChangeServiceCompany\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceUserCashRegisterInformationByRegistrationID\(GetServiceUserCashRegisterInformationByRegistrationID\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceUserCashRegisterInformationByRegistrationIDAsync\(GetServiceUserCashRegisterInformationByRegistrationID\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateCashRegisterVersions\(UpdateCashRegisterVersions\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateCashRegisterVersionsAsync\(UpdateCashRegisterVersions\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateTransportModuleCertificate\(UpdateTransportModuleCertificate\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateTransportModuleCertificateAsync\(UpdateTransportModuleCertificate\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceCashRegisters\(GetServiceCashRegisters\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceCashRegistersAsync\(GetServiceCashRegisters\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateCashRegisterAddress\(UpdateCashRegisterAddress\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateCashRegisterAddressAsync\(UpdateCashRegisterAddress\)](#)  
[ServiceCompanyCashRegisterWebService.ReregisterCashRegister\(ReregisterCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.ReregisterCashRegisterAsync\(ReregisterCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateCashRegister\(UpdateCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.UpdateCashRegisterAsync\(UpdateCashRegister\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceCashRegisterInformationByRegistrationID\(GetServiceCashRegisterInformationByRegistrationID\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceCashRegisterInformationByRegistrationIDAsync\(GetServiceCashRegisterInformationByRegistrationID\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceUserCashRegisters\(GetServiceUserCashRegisters\)](#)  
[ServiceCompanyCashRegisterWebService.GetServiceUserCashRegistersAsync\(GetServiceUserCashRegisters\)](#)  
[IClientChannel.BeginDisplayInitializationUI\(AsyncCallback, object\)](#)  
[IClientChannel.DisplayInitializationUI\(\)](#)  
[IClientChannel.EndDisplayInitializationUI\(IAsyncResult\)](#)  
[IClientChannel.AllowInitializationUI\(\)](#)  
[IClientChannel.DidInteractiveInitialization\(\)](#)  
[IClientChannel.Via\(\)](#)  
[IClientChannel.UnknownMessageReceived\(\)](#)  
[IDisposable.Dispose\(\)](#)  
[IContextChannel.AllowOutputBatching\(\)](#)  
[IContextChannel.InputSession\(\)](#)  
[IContextChannel.LocalAddress\(\)](#)  
[IContextChannel.OperationTimeout\(\)](#)  
[IContextChannel.OutputSession\(\)](#)  
[IContextChannel.RemoteAddress\(\)](#)  
[IContextChannel.SessionId\(\)](#)  
[IChannel.GetProperty<T>\(\):T](#)  
[ICommunicationObject.Abort\(\)](#)  
[ICommunicationObject.BeginClose\(AsyncCallback, object\)](#)  
[ICommunicationObject.BeginClose\(TimeSpan, AsyncCallback, object\)](#)  
[ICommunicationObject.BeginOpen\(AsyncCallback, object\)](#)  
[ICommunicationObject.BeginOpen\(TimeSpan, AsyncCallback, object\)](#)  
[ICommunicationObject.Close\(\)](#)  
[ICommunicationObject.Close\(TimeSpan\)](#)  
[ICommunicationObject.EndClose\(IAsyncResult\)](#)  
[ICommunicationObject.EndOpen\(IAsyncResult\)](#)  
[ICommunicationObject.Open\(\)](#)  
[ICommunicationObject.Open\(TimeSpan\)](#)  
[ICommunicationObject.State](#)  
[ICommunicationObject.Closed](#)  
[ICommunicationObject.Closing](#)  
[ICommunicationObject.Faulted](#)  
[ICommunicationObject.Opened](#)  
[ICommunicationObject.Opening](#)  
[IExtensibleObject<IContextChannel>.Extensions](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IBka.ServiceCompanyCashRegisterService](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public interface ServiceCompanyCashRegisterWebServiceChannel : ServiceCompanyCashRegisterWebService, IClientChannel, IDisposable, IContextChannel, IChannel, ICommunicationObject,
```

# Class ServiceCompanyCashRegisterWebServiceClient

## Inheritance

[object](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>](#)  
[ServiceCompanyCashRegisterWebServiceClient](#)

## Implements

[IDisposable](#)  
[ICommunicationObject](#)  
[IAsyncDisposable](#)  
[ServiceCompanyCashRegisterWebService](#)

## Inherited Members

[ClientBase<ServiceCompanyCashRegisterWebService>.Abort\(\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.Close\(\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.Open\(\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.CreateChannel\(\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.GetDefaultValueForInitialization<T>\(\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.InvokeAsync\(ClientBase<ServiceCompanyCashRegisterWebService>.BeginOperationDelegate, object\[\]\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.EndOperationDelegate, SendOrPostCallback, object\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.CloseAsync\(\)](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.Channel](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.CacheSetting](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.ChannelFactory](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.ClientCredentials](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.Endpoint](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.InnerChannel](#)  
[ClientBase<ServiceCompanyCashRegisterWebService>.State](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class ServiceCompanyCashRegisterWebServiceClient : ClientBase<ServiceCompanyCashRegisterWebService>, IDisposable, ICommunicationObject, IAsyncDisposable, ServiceCompanyCashRegisterWebServiceClient
```

## Constructors

### ServiceCompanyCashRegisterWebServiceClient()

#### Declaration

```
public ServiceCompanyCashRegisterWebServiceClient()
```

### ServiceCompanyCashRegisterWebServiceClient(EndpointConfiguration)

#### Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration endpointConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration</a>	endpointConfiguration	

### ServiceCompanyCashRegisterWebServiceClient(EndpointConfiguration, EndpointAddress)

#### Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration endpointConfiguration, EndpointAddress remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration</a>	endpointConfiguration	
<a href="#">EndpointAddress</a>	remoteAddress	

### ServiceCompanyCashRegisterWebServiceClient(EndpointConfiguration, string)

#### Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration endpointConfiguration, string remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration</a>	endpointConfiguration	
<a href="#">string</a>	remoteAddress	

### ServiceCompanyCashRegisterWebServiceClient(Binding, EndpointAddress)

#### Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(Binding binding, EndpointAddress remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">Binding</a>	binding	
<a href="#">EndpointAddress</a>	remoteAddress	



## Methods

### CancelCashRegister(CancelCashRegisterRequest)

#### Declaration

```
public CancelCashRegisterResponse CancelCashRegister(CancelCashRegisterRequest CancelCashRegisterRequest)
```

#### Parameters

Type	Name	Description
<a href="#">CancelCashRegisterRequest</a>	CancelCashRegisterRequest	

#### Returns

Type	Description
<a href="#">CancelCashRegisterResponse</a>	

### CancelCashRegisterAsync(CancelCashRegisterRequest)

#### Declaration

```
public Task<CancelCashRegisterResponse1> CancelCashRegisterAsync(CancelCashRegisterRequest CancelCashRegisterRequest)
```

#### Parameters

Type	Name	Description
<a href="#">CancelCashRegisterRequest</a>	CancelCashRegisterRequest	

#### Returns

Type	Description
<a href="#">Task&lt;CancelCashRegisterResponse1&gt;</a>	

### ChangeServiceCompany(ChangeServiceCompanyRequest)

#### Declaration

```
public ChangeServiceCompanyResponse ChangeServiceCompany(ChangeServiceCompanyRequest ChangeServiceCompanyRequest)
```

#### Parameters

Type	Name	Description
<a href="#">ChangeServiceCompanyRequest</a>	ChangeServiceCompanyRequest	

#### Returns

Type	Description
<a href="#">ChangeServiceCompanyResponse</a>	

### ChangeServiceCompanyAsync(ChangeServiceCompanyRequest)

#### Declaration

```
public Task<ChangeServiceCompanyResponse1> ChangeServiceCompanyAsync(ChangeServiceCompanyRequest ChangeServiceCompanyRequest)
```

#### Parameters

Type	Name	Description
<a href="#">ChangeServiceCompanyRequest</a>	ChangeServiceCompanyRequest	

#### Returns

Type	Description
<a href="#">Task&lt;ChangeServiceCompanyResponse1&gt;</a>	

### GetBusinessAddress(GetBusinessAddressRequest)

#### Declaration

```
public GetBusinessAddressResponse GetBusinessAddress(GetBusinessAddressRequest GetBusinessAddressRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetBusinessAddressRequest</a>	GetBusinessAddressRequest	

#### Returns

Type	Description
<a href="#">GetBusinessAddressResponse</a>	

### GetBusinessAddressAsync(GetBusinessAddressRequest)

#### Declaration

```
public Task<GetBusinessAddressResponse1> GetBusinessAddressAsync(GetBusinessAddressRequest GetBusinessAddressRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetBusinessAddressRequest</a>	GetBusinessAddressRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetBusinessAddressResponse1&gt;</a>	

### GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationIDRequest)

#### Declaration

```
public GetServicedCashRegisterInformationByRegistrationIDResponse GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationIDRequest Get
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDRequest</a>	GetServicedCashRegisterInformationByRegistrationIDRequest	

#### Returns

Type	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDResponse</a>	

### GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationIDRequest)

#### Declaration

```
public Task<GetServicedCashRegisterInformationByRegistrationIDResponse> GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationID
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegisterInformationByRegistrationIDRequest</a>	GetServicedCashRegisterInformationByRegistrationIDRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetServicedCashRegisterInformationByRegistrationIDResponse&gt;</a>	

### GetServicedCashRegisters(GetServicedCashRegistersRequest)

#### Declaration

```
public GetServicedCashRegistersResponse GetServicedCashRegisters(GetServicedCashRegistersRequest GetServicedCashRegistersRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegistersRequest</a>	GetServicedCashRegistersRequest	

#### Returns

Type	Description
<a href="#">GetServicedCashRegistersResponse</a>	

### GetServicedCashRegistersAsync(GetServicedCashRegistersRequest)

#### Declaration

```
public Task<GetServicedCashRegistersResponse> GetServicedCashRegistersAsync(GetServicedCashRegistersRequest GetServicedCashRegistersRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedCashRegistersRequest</a>	GetServicedCashRegistersRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetServicedCashRegistersResponse&gt;</a>	

### GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationIDRequest)

#### Declaration

```
public GetServicedUserCashRegisterInformationByRegistrationIDResponse GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationID
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDRequest</a>	GetServicedUserCashRegisterInformationByRegistrationIDRequest	

#### Returns

Type	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDResponse</a>	

### GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationIDRequest)

#### Declaration

```
public Task<GetServicedUserCashRegisterInformationByRegistrationIDResponse> GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByR
```

#### Parameters

Type	Name	Description
<a href="#">GetServicedUserCashRegisterInformationByRegistrationIDRequest</a>	GetServicedUserCashRegisterInformationByRegistrationIDRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetServicedUserCashRegisterInformationByRegistrationIDResponse&gt;</a>	

### GetServicedUserCashRegisters(GetServicedUserCashRegistersRequest)

**Declaration**

```
public GetServicedUserCashRegistersResponse GetServicedUserCashRegisters (GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest)
```

**Parameters**

Type	Name	Description
<a href="#">GetServicedUserCashRegistersRequest</a>	GetServicedUserCashRegistersRequest	

**Returns**

Type	Description
<a href="#">GetServicedUserCashRegistersResponse</a>	

**GetServicedUserCashRegistersAsync(GetServicedUserCashRegistersRequest)****Declaration**

```
public Task<GetServicedUserCashRegistersResponse1> GetServicedUserCashRegistersAsync (GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest)
```

**Parameters**

Type	Name	Description
<a href="#">GetServicedUserCashRegistersRequest</a>	GetServicedUserCashRegistersRequest	

**Returns**

Type	Description
<a href="#">Task&lt;GetServicedUserCashRegistersResponse1&gt;</a>	

**OpenAsync()****Declaration**

```
public virtual Task OpenAsync()
```

**Returns****Type Description**

[Task](#)

**RegisterCashRegister(RegisterCashRegisterRequest)****Declaration**

```
public RegisterCashRegisterResponse RegisterCashRegister (RegisterCashRegisterRequest RegisterCashRegisterRequest)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterCashRegisterRequest</a>	RegisterCashRegisterRequest	

**Returns**

Type	Description
<a href="#">RegisterCashRegisterResponse</a>	

**RegisterCashRegisterAsync(RegisterCashRegisterRequest)****Declaration**

```
public Task<RegisterCashRegisterResponse1> RegisterCashRegisterAsync (RegisterCashRegisterRequest RegisterCashRegisterRequest)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterCashRegisterRequest</a>	RegisterCashRegisterRequest	

**Returns**

Type	Description
<a href="#">Task&lt;RegisterCashRegisterResponse1&gt;</a>	

**RegisterTransportModuleCertificate(RegisterTransportModuleCertificateRequest)****Declaration**

```
public RegisterTransportModuleCertificateResponse RegisterTransportModuleCertificate (RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterTransportModuleCertificateRequest</a>	RegisterTransportModuleCertificateRequest	

**Returns**

Type	Description
<a href="#">RegisterTransportModuleCertificateResponse</a>	

**RegisterTransportModuleCertificateAsync(RegisterTransportModuleCertificateRequest)****Declaration**

```
public Task<RegisterTransportModuleCertificateResponse1> RegisterTransportModuleCertificateAsync (RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest)
```

**Parameters**

Type	Name	Description
<a href="#">RegisterTransportModuleCertificateRequest</a>	RegisterTransportModuleCertificateRequest	

Returns

Type	Description
<a href="#">Task&lt;RegisterTransportModuleCertificateResponse1&gt;</a>	

#### ReregisterCashRegister(ReregisterCashRegisterRequest)

Declaration

```
public ReregisterCashRegisterResponse ReregisterCashRegister(ReregisterCashRegisterRequest ReregisterCashRegisterRequest)
```

Parameters

Type	Name	Description
<a href="#">ReregisterCashRegisterRequest</a>	ReregisterCashRegisterRequest	

Returns

Type	Description
<a href="#">ReregisterCashRegisterResponse</a>	

#### ReregisterCashRegisterAsync(ReregisterCashRegisterRequest)

Declaration

```
public Task<ReregisterCashRegisterResponse1> ReregisterCashRegisterAsync(ReregisterCashRegisterRequest ReregisterCashRegisterRequest)
```

Parameters

Type	Name	Description
<a href="#">ReregisterCashRegisterRequest</a>	ReregisterCashRegisterRequest	

Returns

Type	Description
<a href="#">Task&lt;ReregisterCashRegisterResponse1&gt;</a>	

#### SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWorksRequest)

Declaration

```
public SubmitCashRegisterPreventionWorksResponse SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest)
```

Parameters

Type	Name	Description
<a href="#">SubmitCashRegisterPreventionWorksRequest</a>	SubmitCashRegisterPreventionWorksRequest	

Returns

Type	Description
<a href="#">SubmitCashRegisterPreventionWorksResponse</a>	

#### SubmitCashRegisterPreventionWorkAsync(SubmitCashRegisterPreventionWorksRequest)

Declaration

```
public Task<SubmitCashRegisterPreventionWorkResponse> SubmitCashRegisterPreventionWorkAsync(SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest)
```

Parameters

Type	Name	Description
<a href="#">SubmitCashRegisterPreventionWorksRequest</a>	SubmitCashRegisterPreventionWorksRequest	

Returns

Type	Description
<a href="#">Task&lt;SubmitCashRegisterPreventionWorkResponse&gt;</a>	

#### UpdateCashRegister(UpdateCashRegisterRequest)

Declaration

```
public UpdateCashRegisterResponse UpdateCashRegister(UpdateCashRegisterRequest UpdateCashRegisterRequest)
```

Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterRequest</a>	UpdateCashRegisterRequest	

Returns

Type	Description
<a href="#">UpdateCashRegisterResponse</a>	

#### UpdateCashRegisterAddress(UpdateCashRegisterAddressRequest)

Declaration

```
public UpdateCashRegisterAddressResponse UpdateCashRegisterAddress(UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest)
```

Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">UpdateCashRegisterAddressRequest</a>	UpdateCashRegisterAddressRequest	

Returns

Type	Description
<a href="#">UpdateCashRegisterAddressResponse</a>	

#### UpdateCashRegisterAddressAsync(UpdateCashRegisterAddressRequest)

Declaration

```
public Task<UpdateCashRegisterAddressResponse> UpdateCashRegisterAddressAsync(UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest)
```

Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterAddressRequest</a>	UpdateCashRegisterAddressRequest	

Returns

Type	Description
<a href="#">Task&lt;UpdateCashRegisterAddressResponse&gt;</a>	

#### UpdateCashRegisterAsync(UpdateCashRegisterRequest)

Declaration

```
public Task<UpdateCashRegisterResponse> UpdateCashRegisterAsync(UpdateCashRegisterRequest UpdateCashRegisterRequest)
```

Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterRequest</a>	UpdateCashRegisterRequest	

Returns

Type	Description
<a href="#">Task&lt;UpdateCashRegisterResponse&gt;</a>	

#### UpdateCashRegisterVersions(UpdateCashRegisterVersionsRequest)

Declaration

```
public UpdateCashRegisterVersionsResponse UpdateCashRegisterVersions(UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest)
```

Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterVersionsRequest</a>	UpdateCashRegisterVersionsRequest	

Returns

Type	Description
<a href="#">UpdateCashRegisterVersionsResponse</a>	

#### UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersionsRequest)

Declaration

```
public Task<UpdateCashRegisterVersionsResponse> UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest)
```

Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterVersionsRequest</a>	UpdateCashRegisterVersionsRequest	

Returns

Type	Description
<a href="#">Task&lt;UpdateCashRegisterVersionsResponse&gt;</a>	

#### UpdateTransportModuleCertificate(UpdateTransportModuleCertificateRequest)

Declaration

```
public UpdateTransportModuleCertificateResponse UpdateTransportModuleCertificate(UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest)
```

Parameters

Type	Name	Description
<a href="#">UpdateTransportModuleCertificateRequest</a>	UpdateTransportModuleCertificateRequest	

Returns

Type	Description
<a href="#">UpdateTransportModuleCertificateResponse</a>	

#### UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificateRequest)

Declaration

```
public Task<UpdateTransportModuleCertificateResponse> UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest)
```

Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">UpdateTransportModuleCertificateRequest</a>	UpdateTransportModuleCertificateRequest	UpdateTransportModuleCertificateRequest

#### Returns

Type	Description
<a href="#">Task&lt;UpdateTransportModuleCertificateResponse1&gt;</a>	

#### Implements

[IDisposable](#)  
[ICommunicationObject](#)  
[IAsyncDisposable](#)  
[ServiceCompanyCashRegisterWebService](#)

# Enum ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration
```

## Fields

Name	Description
ServiceCompanyCashRegisterWebService	

# Enum Status

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum Status
```

## Fields

Name	Description
DEREGISTERED	
REGISTERED	
REGISTRATION_IN_PROGRESS	
SUBMITTED_TO_DEREGISTER	
SUBMITTED_TO_REGISTER	
SUBMITTED_TO_SUSPEND	
SUSPENDED	



# Class SubmitCashRegisterPreventionWork

## Inheritance

[object](#)

SubmitCashRegisterPreventionWork

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class SubmitCashRegisterPreventionWork
```

## Constructors

### SubmitCashRegisterPreventionWork()

#### Declaration

```
public SubmitCashRegisterPreventionWork()
```

### SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWorksRequest)

#### Declaration

```
public SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest)
```

#### Parameters

Type	Name	Description
<a href="#">SubmitCashRegisterPreventionWorksRequest</a>	SubmitCashRegisterPreventionWorksRequest	

## Fields

### SubmitCashRegisterPreventionWorksRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest
```

#### Field Value

Type	Description
<a href="#">SubmitCashRegisterPreventionWorksRequest</a>	

# Class SubmitCashRegisterPreventionWorkResponse

## Inheritance

[object](#)

SubmitCashRegisterPreventionWorkResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class SubmitCashRegisterPreventionWorkResponse
```

## Constructors

### SubmitCashRegisterPreventionWorkResponse()

#### Declaration

```
public SubmitCashRegisterPreventionWorkResponse()
```

### SubmitCashRegisterPreventionWorkResponse(SubmitCashRegisterPreventionWorksResponse)

#### Declaration

```
public SubmitCashRegisterPreventionWorkResponse(SubmitCashRegisterPreventionWorksResponse SubmitCashRegisterPreventionWorksResponse)
```

#### Parameters

Type	Name	Description
<a href="#">SubmitCashRegisterPreventionWorksResponse</a>	SubmitCashRegisterPreventionWorksResponse	

## Fields

### SubmitCashRegisterPreventionWorksResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.iEka.vmi.lt", Order = 0)]  
public SubmitCashRegisterPreventionWorksResponse SubmitCashRegisterPreventionWorksResponse
```

#### Field Value

Type	Description
<a href="#">SubmitCashRegisterPreventionWorksResponse</a>	

# Class SubmitCashRegisterPreventionWorksRequest

## Inheritance

[object](#)

SubmitCashRegisterPreventionWorksRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SubmitCashRegisterPreventionWorksRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certifiedEmployeeId

#### Declaration

```
public long certifiedEmployeeId { get; set; }
```

#### Property Value

#### Type Description

[long](#)

### certifiedEmployeeIdSpecified

#### Declaration

```
public bool certifiedEmployeeIdSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**employee**

**Declaration**

```
public string employee { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**preventionWork**

**Declaration**

```
public string preventionWork { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**preventionWorkDate**

**Declaration**

```
public DateTime preventionWorkDate { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

# Class SubmitCashRegisterPreventionWorksResponse

## Inheritance

[object](#)

SubmitCashRegisterPreventionWorksResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SubmitCashRegisterPreventionWorksResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Enum TransportModuleCertificateStatusEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum TransportModuleCertificateStatusEnum
```

## Fields

Name	Description
ACTIVATED	
DEACTIVATED	

# Class UpdateCashRegister

## Inheritance

[object](#)

UpdateCashRegister

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateCashRegister
```

## Constructors

### UpdateCashRegister()

#### Declaration

```
public UpdateCashRegister()
```

### UpdateCashRegister(UpdateCashRegisterRequest)

#### Declaration

```
public UpdateCashRegister(UpdateCashRegisterRequest UpdateCashRegisterRequest)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterRequest</a>	UpdateCashRegisterRequest	

## Fields

### UpdateCashRegisterRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterRequest UpdateCashRegisterRequest
```

#### Field Value

Type	Description
<a href="#">UpdateCashRegisterRequest</a>	

# Class UpdateCashRegisterAddress

## Inheritance

[object](#)

UpdateCashRegisterAddress

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateCashRegisterAddress
```

## Constructors

### UpdateCashRegisterAddress()

#### Declaration

```
public UpdateCashRegisterAddress()
```

### UpdateCashRegisterAddress(UpdateCashRegisterAddressRequest)

#### Declaration

```
public UpdateCashRegisterAddress(UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterAddressRequest</a>	UpdateCashRegisterAddressRequest	

## Fields

### UpdateCashRegisterAddressRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest
```

#### Field Value

Type	Description
<a href="#">UpdateCashRegisterAddressRequest</a>	



# Class UpdateCashRegisterAddressRequest

## Inheritance

[object](#)

UpdateCashRegisterAddressRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateCashRegisterAddressRequest
```

## Properties

### cashRegisterAddressId

#### Declaration

```
public long cashRegisterAddressId { get; set; }
```

#### Property Value

#### Type Description

[long](#)

### cashRegisterAddressIdSpecified

#### Declaration

```
public bool cashRegisterAddressIdSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### cashRegisterAddressName

#### Declaration

```
public string cashRegisterAddressName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterPlaceType

#### Declaration

```
public string cashRegisterPlaceType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterRegistrationID**

**Declaration**

```
public string cashRegisterRegistrationID { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterRegistrationNo**

**Declaration**

```
public string cashRegisterRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**certifiedEmployeeId**

**Declaration**

```
public long certifiedEmployeeId { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**certifiedEmployeeIdSpecified**

**Declaration**

```
public bool certifiedEmployeeIdSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**otherCashRegisterAddress**

**Declaration**

```
public OtherCashRegisterAddress otherCashRegisterAddress { get; set; }
```

**Property Value**

**Type**

**Description**

[OtherCashRegisterAddress](#)

# Class UpdateCashRegisterAddressResponse

## Inheritance

[object](#)

UpdateCashRegisterAddressResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateCashRegisterAddressResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Class UpdateCashRegisterAddressResponse1

## Inheritance

[object](#)

UpdateCashRegisterAddressResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateCashRegisterAddressResponse1
```

## Constructors

### UpdateCashRegisterAddressResponse1()

#### Declaration

```
public UpdateCashRegisterAddressResponse1()
```

### UpdateCashRegisterAddressResponse1(UpdateCashRegisterAddressResponse)

#### Declaration

```
public UpdateCashRegisterAddressResponse1(UpdateCashRegisterAddressResponse UpdateCashRegisterAddressResponse)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterAddressResponse</a>	UpdateCashRegisterAddressResponse	

## Fields

### UpdateCashRegisterAddressResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterAddressResponse UpdateCashRegisterAddressResponse
```

#### Field Value

Type	Description
<a href="#">UpdateCashRegisterAddressResponse</a>	

# Class UpdateCashRegisterRequest

## Inheritance

[object](#)

UpdateCashRegisterRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateCashRegisterRequest
```

## Properties

### cashRegisterInfo

#### Declaration

```
public CashRegisterInformation cashRegisterInfo { get; set; }
```

#### Property Value

Type	Description
------	-------------

[CashRegisterInformation](#)

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class UpdateCashRegisterResponse

## Inheritance

[object](#)

UpdateCashRegisterResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateCashRegisterResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Class UpdateCashRegisterResponse1

## Inheritance

[object](#)

UpdateCashRegisterResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateCashRegisterResponse1
```

## Constructors

### UpdateCashRegisterResponse1()

#### Declaration

```
public UpdateCashRegisterResponse1()
```

### UpdateCashRegisterResponse1(UpdateCashRegisterResponse)

#### Declaration

```
public UpdateCashRegisterResponse1(UpdateCashRegisterResponse UpdateCashRegisterResponse)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterResponse</a>	UpdateCashRegisterResponse	

## Fields

### UpdateCashRegisterResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterResponse UpdateCashRegisterResponse
```

#### Field Value

Type	Description
<a href="#">UpdateCashRegisterResponse</a>	

# Class UpdateCashRegisterVersions

## Inheritance

[object](#)

UpdateCashRegisterVersions

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateCashRegisterVersions
```

## Constructors

### UpdateCashRegisterVersions()

#### Declaration

```
public UpdateCashRegisterVersions()
```

### UpdateCashRegisterVersions(UpdateCashRegisterVersionsRequest)

#### Declaration

```
public UpdateCashRegisterVersions(UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterVersionsRequest</a>	UpdateCashRegisterVersionsRequest	

## Fields

### UpdateCashRegisterVersionsRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest
```

#### Field Value

Type	Description
<a href="#">UpdateCashRegisterVersionsRequest</a>	



# Class UpdateCashRegisterVersionsRequest

## Inheritance

[object](#)

UpdateCashRegisterVersionsRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateCashRegisterVersionsRequest
```

## Properties

### cashRegisterHardwareVersionID

#### Declaration

```
public long cashRegisterHardwareVersionID { get; set; }
```

#### Property Value

#### Type Description

[long](#)

### cashRegisterHardwareVersionIDSpecified

#### Declaration

```
public bool cashRegisterHardwareVersionIDSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**cashRegisterSoftwareVersionID**

**Declaration**

```
public long cashRegisterSoftwareVersionID { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**cashRegisterSoftwareVersionIDSpecified**

**Declaration**

```
public bool cashRegisterSoftwareVersionIDSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**securityModuleHardwareVersionID**

**Declaration**

```
public long securityModuleHardwareVersionID { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**securityModuleHardwareVersionIDSpecified**

**Declaration**

```
public bool securityModuleHardwareVersionIDSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**securityModuleSoftwareVersionID**

**Declaration**

```
public long securityModuleSoftwareVersionID { get; set; }
```

**Property Value**

**Type Description**

[long](#)

## **securityModuleSoftwareVersionIDSpecified**

### **Declaration**

```
public bool securityModuleSoftwareVersionIDSpecified { get; set; }
```

### **Property Value**

### **Type Description**

[bool](#)

# Class UpdateCashRegisterVersionsResponse

## Inheritance

[object](#)

UpdateCashRegisterVersionsResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateCashRegisterVersionsResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Class UpdateCashRegisterVersionsResponse1

## Inheritance

[object](#)

UpdateCashRegisterVersionsResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateCashRegisterVersionsResponse1
```

## Constructors

### UpdateCashRegisterVersionsResponse1()

#### Declaration

```
public UpdateCashRegisterVersionsResponse1()
```

### UpdateCashRegisterVersionsResponse1(UpdateCashRegisterVersionsResponse)

#### Declaration

```
public UpdateCashRegisterVersionsResponse1(UpdateCashRegisterVersionsResponse UpdateCashRegisterVersionsResponse)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateCashRegisterVersionsResponse</a>	UpdateCashRegisterVersionsResponse	

## Fields

### UpdateCashRegisterVersionsResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterVersionsResponse UpdateCashRegisterVersionsResponse
```

#### Field Value

Type	Description
<a href="#">UpdateCashRegisterVersionsResponse</a>	

# Class UpdateTransportModuleCertificate

## Inheritance

[object](#)

UpdateTransportModuleCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateTransportModuleCertificate
```

## Constructors

### UpdateTransportModuleCertificate()

#### Declaration

```
public UpdateTransportModuleCertificate ()
```

### UpdateTransportModuleCertificate(UpdateTransportModuleCertificateRequest)

#### Declaration

```
public UpdateTransportModuleCertificate (UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateTransportModuleCertificateRequest</a>	UpdateTransportModuleCertificateRequest	

## Fields

### UpdateTransportModuleCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest
```

#### Field Value

Type	Description
<a href="#">UpdateTransportModuleCertificateRequest</a>	

# Class UpdateTransportModuleCertificateRequest

## Inheritance

[object](#)

UpdateTransportModuleCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateTransportModuleCertificateRequest
```

## Properties

### cashRegisterRegistrationID

#### Declaration

```
public string cashRegisterRegistrationID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### cashRegisterRegistrationNo

#### Declaration

```
public string cashRegisterRegistrationNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certificate

#### Declaration

```
public byte[] certificate { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

# Class UpdateTransportModuleCertificateResponse

## Inheritance

[object](#)

UpdateTransportModuleCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UpdateTransportModuleCertificateResponse
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">OperationStatus</a>	
---------------------------------	--



# Class UpdateTransportModuleCertificateResponse1

## Inheritance

[object](#)

UpdateTransportModuleCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyCashRegisterService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class UpdateTransportModuleCertificateResponse1
```

## Constructors

### UpdateTransportModuleCertificateResponse1()

#### Declaration

```
public UpdateTransportModuleCertificateResponse1()
```

### UpdateTransportModuleCertificateResponse1(UpdateTransportModuleCertificateResponse)

#### Declaration

```
public UpdateTransportModuleCertificateResponse1(UpdateTransportModuleCertificateResponse UpdateTransportModuleCertificateResponse)
```

#### Parameters

Type	Name	Description
<a href="#">UpdateTransportModuleCertificateResponse</a>	UpdateTransportModuleCertificateResponse	

## Fields

### UpdateTransportModuleCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.iEka.vmi.lt", Order = 0)]  
public UpdateTransportModuleCertificateResponse UpdateTransportModuleCertificateResponse
```

#### Field Value

Type	Description
<a href="#">UpdateTransportModuleCertificateResponse</a>	

## Namespace

**RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService**

## Classes

[CancelSecurityModuleIntermediateCertificate](#)

[CancelSecurityModuleIntermediateCertificateRequest](#)

[CancelSecurityModuleIntermediateCertificateResponse](#)

[CancelSecurityModuleIntermediateCertificateResponse1](#)

[CancelTransportModuleIntermediateCertificate](#)

[CancelTransportModuleIntermediateCertificateRequest](#)

[CancelTransportModuleIntermediateCertificateResponse](#)

[CancelTransportModuleIntermediateCertificateResponse1](#)

[CashRegisterModel](#)

[Certificate](#)

[CertifiedEmployee](#)

[Description](#)

[Error](#)

[GetCashRegisterModels](#)

[GetCashRegisterModelsRequest](#)

[GetCashRegisterModelsResponse](#)

[GetCashRegisterModelsResponse1](#)

[GetCertificatePublicKey](#)

[GetCertificatePublicKeyRequest](#)

[GetCertificatePublicKeyResponse](#)

[GetCertificatePublicKeyResponse1](#)

[GetSecurityModuleIntermediateCertificate](#)

[GetSecurityModuleIntermediateCertificateRequest](#)

[GetSecurityModuleIntermediateCertificateResponse](#)

[GetSecurityModuleIntermediateCertificateResponse1](#)

[GetServiceOrganizationData](#)

[GetServiceOrganizationDataRequest](#)

[GetServiceOrganizationDataResponse](#)

[GetServiceOrganizationDataResponse1](#)

[GetTransportModuleIntermediateCertificate](#)

[GetTransportModuleIntermediateCertificateRequest](#)

[GetTransportModuleIntermediateCertificateResponse](#)

[GetTransportModuleIntermediateCertificateResponse1](#)

[ProvideInfoToCrossedOutEmployeeCertificate](#)

[ProvideInfoToCrossedOutEmployeeCertificateRequest](#)

[ProvideInfoToCrossedOutEmployeeCertificateResponse](#)

[ProvideInfoToCrossedOutEmployeeCertificateResponse1](#)

[ServiceCompanyWebServiceClient](#)

[ServicedCashRegisterModel](#)

[Version](#)

## **Interfaces**

[ServiceCompanyWebService](#)

[ServiceCompanyWebServiceChannel](#)

## **Enums**

[CashRegisterModelStateEnum](#)

[CertifiedEmployeeStateEnum](#)

[Locale](#)

[OperationStatus](#)

[ServiceCompanyWebServiceClient.EndpointConfiguration](#)

[ServicedCashRegisterModelState](#)

# Class CancelSecurityModuleIntermediateCertificate

## Inheritance

[object](#)  
CancelSecurityModuleIntermediateCertificate

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class CancelSecurityModuleIntermediateCertificate
```

## Constructors

### CancelSecurityModuleIntermediateCertificate()

#### Declaration

```
public CancelSecurityModuleIntermediateCertificate ()
```

### CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificateRequest)

#### Declaration

```
public CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificateRequest CancelSecurityModuleIntermediateCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">CancelSecurityModuleIntermediateCertificateRequest</a>	CancelSecurityModuleIntermediateCertificateRequest	

## Fields

### CancelSecurityModuleIntermediateCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelSecurityModuleIntermediateCertificateRequest CancelSecurityModuleIntermediateCertificateRequest
```

#### Field Value

Type	Description
<a href="#">CancelSecurityModuleIntermediateCertificateRequest</a>	

# Class CancelSecurityModuleIntermediateCertificateRequest

## Inheritance

[object](#)

CancelSecurityModuleIntermediateCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CancelSecurityModuleIntermediateCertificateRequest
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class CancelSecurityModuleIntermediateCertificateResponse

## Inheritance

[object](#)

CancelSecurityModuleIntermediateCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CancelSecurityModuleIntermediateCertificateResponse
```

## Properties

### cancelDate

#### Declaration

```
public DateTime cancelDate { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### cancelDateSpecified

#### Declaration

```
public bool cancelDateSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Error</a>	
-----------------------	--

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

**Property Value**

Type	Description
<a href="#">OperationStatus</a>	

# Class CancelSecurityModuleIntermediateCertificateResponse1

## Inheritance

[object](#)

CancelSecurityModuleIntermediateCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class CancelSecurityModuleIntermediateCertificateResponse1
```

## Constructors

### CancelSecurityModuleIntermediateCertificateResponse1()

#### Declaration

```
public CancelSecurityModuleIntermediateCertificateResponse1()
```

### CancelSecurityModuleIntermediateCertificateResponse1(CancelSecurityModuleIntermediateCertificateResponse)

#### Declaration

```
public CancelSecurityModuleIntermediateCertificateResponse1(CancelSecurityModuleIntermediateCertificateResponse CancelSecurityModuleIntermediateCertificateResponse)
```

## Parameters

Type	Name	Description
<a href="#">CancelSecurityModuleIntermediateCertificateResponse</a>	CancelSecurityModuleIntermediateCertificateResponse	

## Fields

### CancelSecurityModuleIntermediateCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelSecurityModuleIntermediateCertificateResponse CancelSecurityModuleIntermediateCertificateResponse
```

#### Field Value

Type	Description
<a href="#">CancelSecurityModuleIntermediateCertificateResponse</a>	



# Class CancelTransportModuleIntermediateCertificate

## Inheritance

[object](#)

CancelTransportModuleIntermediateCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class CancelTransportModuleIntermediateCertificate
```

## Constructors

### CancelTransportModuleIntermediateCertificate()

#### Declaration

```
public CancelTransportModuleIntermediateCertificate()
```

### CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificateRequest)

#### Declaration

```
public CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificateRequest CancelTransportModuleIntermediateCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">CancelTransportModuleIntermediateCertificateRequest</a>	CancelTransportModuleIntermediateCertificateRequest	

## Fields

### CancelTransportModuleIntermediateCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelTransportModuleIntermediateCertificateRequest CancelTransportModuleIntermediateCertificateRequest
```

#### Field Value

Type	Description
<a href="#">CancelTransportModuleIntermediateCertificateRequest</a>	

# Class CancelTransportModuleIntermediateCertificateRequest

## Inheritance

[object](#)

CancelTransportModuleIntermediateCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CancelTransportModuleIntermediateCertificateRequest
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class CancelTransportModuleIntermediateCertificateResponse

## Inheritance

[object](#)

CancelTransportModuleIntermediateCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CancelTransportModuleIntermediateCertificateResponse
```

## Properties

### cancelDate

#### Declaration

```
public DateTime cancelDate { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### cancelDateSpecified

#### Declaration

```
public bool cancelDateSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Error</a>	
-----------------------	--

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

**Property Value**

Type	Description
<a href="#">OperationStatus</a>	

# Class CancelTransportModuleIntermediateCertificateResponse1

## Inheritance

[object](#)

CancelTransportModuleIntermediateCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class CancelTransportModuleIntermediateCertificateResponse1
```

## Constructors

### CancelTransportModuleIntermediateCertificateResponse1()

#### Declaration

```
public CancelTransportModuleIntermediateCertificateResponse1()
```

### CancelTransportModuleIntermediateCertificateResponse1(CancelTransportModuleIntermediateCertificateResponse)

#### Declaration

```
public CancelTransportModuleIntermediateCertificateResponse1(CancelTransportModuleIntermediateCertificateResponse CancelTransportModuleIntermediateCertificateResponse)
```

## Parameters

Type	Name	Description
<a href="#">CancelTransportModuleIntermediateCertificateResponse</a>	CancelTransportModuleIntermediateCertificateResponse	

## Fields

### CancelTransportModuleIntermediateCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelTransportModuleIntermediateCertificateResponse CancelTransportModuleIntermediateCertificateResponse
```

## Field Value

Type	Description
<a href="#">CancelTransportModuleIntermediateCertificateResponse</a>	

# Class CashRegisterModel

## Inheritance

[object](#)

CashRegisterModel

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CashRegisterModel
```

## Properties

### cashRegisterHardwareVersions

#### Declaration

```
public Version[] cashRegisterHardwareVersions { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Version[]</a>	
---------------------------	--

### cashRegisterSoftwareVersions

#### Declaration

```
public Version[] cashRegisterSoftwareVersions { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Version[]</a>	
---------------------------	--

### modelCategory

#### Declaration

```
public string modelCategory { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### modelFullName

#### Declaration

```
public string modelFullName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**modelNo**

**Declaration**

```
public long modelNo { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**modelType**

**Declaration**

```
public string modelType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**securityModuleHardwareVersions**

**Declaration**

```
public Version[] securityModuleHardwareVersions { get; set; }
```

**Property Value**

**Type Description**

[Version\[\]](#)

**securityModuleName**

**Declaration**

```
public string securityModuleName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**securityModuleSoftwareVersions**

**Declaration**

```
public Version[] securityModuleSoftwareVersions { get; set; }
```

**Property Value**

**Type Description**

[Version\[\]](#)

## securityModuleType

### Declaration

```
public string securityModuleType { get; set; }
```

### Property Value

#### Type Description

[string](#)

## state

### Declaration

```
public CashRegisterModelStateEnum state { get; set; }
```

### Property Value

Type	Description
<a href="#">CashRegisterModelStateEnum</a>	

## validFrom

### Declaration

```
public DateTime validFrom { get; set; }
```

### Property Value

Type	Description
<a href="#">DateTime</a>	

## validTo

### Declaration

```
public DateTime validTo { get; set; }
```

### Property Value

Type	Description
<a href="#">DateTime</a>	

## validToSpecified

### Declaration

```
public bool validToSpecified { get; set; }
```

### Property Value

Type	Description
<a href="#">bool</a>	



# Enum CashRegisterModelStateEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CashRegisterModelStateEnum
```

## Fields

Name	Description
CROSSED_OUT	
SUSPENDED	
VALID	

# Class Certificate

## Inheritance

[object](#)  
Certificate

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Certificate
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### remarks

#### Declaration

```
public string remarks { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### validFrom

#### Declaration

```
public DateTime validFrom { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### validTo

#### Declaration

```
public DateTime validTo { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

# Class CertifiedEmployee

## Inheritance

[object](#)

CertifiedEmployee

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CertifiedEmployee
```

## Properties

### certificateNo

#### Declaration

```
public string certificateNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certificateValidFrom

#### Declaration

```
public DateTime certificateValidFrom { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### certificateValidTo

#### Declaration

```
public DateTime certificateValidTo { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### certificateValidToSpecified

#### Declaration

```
public bool certificateValidToSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**fullName**

**Declaration**

```
public string fullName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**id**

**Declaration**

```
public long id { get; set; }
```

**Property Value**

**Type Description**

[long](#)

**personCode**

**Declaration**

```
public string personCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**servicedCashRegisterModels**

**Declaration**

```
public ServicedCashRegisterModel[] servicedCashRegisterModels { get; set; }
```

**Property Value**

**Type**

**Description**

[ServicedCashRegisterModel\[\]](#)

**state**

**Declaration**

```
public CertifiedEmployeeStateEnum state { get; set; }
```

**Property Value**

**Type**

**Description**

[CertifiedEmployeeStateEnum](#)

# Enum CertifiedEmployeeStateEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CertifiedEmployeeStateEnum
```

## Fields

Name	Description
CROSSED_OUT	
PROVIDED_TO_CROSSED_OUT	
VALID	

# Class Description

## Inheritance

[object](#)

Description

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Description
```

## Properties

### errorMessage

#### Declaration

```
public string errorMessage { get; set; }
```

#### Property Value

### Type Description

[string](#)

### locale

#### Declaration

```
public Locale locale { get; set; }
```

#### Property Value

### Type Description

[Locale](#)

# Class Error

## Inheritance

[object](#)

Error

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Error
```

## Properties

### descriptions

#### Declaration

```
public Description[] descriptions { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Description[]</a>	
-------------------------------	--

### errorCode

#### Declaration

```
public string errorCode { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--



# Class GetCashRegisterModels

## Inheritance

[object](#)

GetCashRegisterModels

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetCashRegisterModels
```

## Constructors

### GetCashRegisterModels()

#### Declaration

```
public GetCashRegisterModels()
```

### GetCashRegisterModels(GetCashRegisterModelsRequest)

#### Declaration

```
public GetCashRegisterModels(GetCashRegisterModelsRequest GetCashRegisterModelsRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetCashRegisterModelsRequest</a>	GetCashRegisterModelsRequest	

## Fields

### GetCashRegisterModelsRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCashRegisterModelsRequest GetCashRegisterModelsRequest
```

#### Field Value

Type	Description
<a href="#">GetCashRegisterModelsRequest</a>	

# Class GetCashRegisterModelsRequest

## Inheritance

[object](#)

GetCashRegisterModelsRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetCashRegisterModelsRequest
```

# Class GetCashRegisterModelsResponse

## Inheritance

[object](#)

GetCashRegisterModelsResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetCashRegisterModelsResponse
```

## Properties

### cashRegisterModels

#### Declaration

```
public CashRegisterModel[] cashRegisterModels { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterModel[]</a>	

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
<a href="#">OperationStatus</a>	

# Class GetCashRegisterModelsResponse1

## Inheritance

[object](#)

GetCashRegisterModelsResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetCashRegisterModelsResponse1
```

## Constructors

### GetCashRegisterModelsResponse1()

#### Declaration

```
public GetCashRegisterModelsResponse1()
```

### GetCashRegisterModelsResponse1(GetCashRegisterModelsResponse)

#### Declaration

```
public GetCashRegisterModelsResponse1(GetCashRegisterModelsResponse GetCashRegisterModelsResponse)
```

## Parameters

Type	Name	Description
<a href="#">GetCashRegisterModelsResponse</a>	GetCashRegisterModelsResponse	

## Fields

### GetCashRegisterModelsResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCashRegisterModelsResponse GetCashRegisterModelsResponse
```

## Field Value

Type	Description
<a href="#">GetCashRegisterModelsResponse</a>	

# Class GetCertificatePublicKey

## Inheritance

[object](#)

GetCertificatePublicKey

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetCertificatePublicKey
```

## Constructors

### GetCertificatePublicKey()

#### Declaration

```
public GetCertificatePublicKey()
```

### GetCertificatePublicKey(GetCertificatePublicKeyRequest)

#### Declaration

```
public GetCertificatePublicKey(GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetCertificatePublicKeyRequest</a>	GetCertificatePublicKeyRequest	

## Fields

### GetCertificatePublicKeyRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest
```

#### Field Value

Type	Description
<a href="#">GetCertificatePublicKeyRequest</a>	

# Class GetCertificatePublicKeyRequest

## Inheritance

[object](#)

GetCertificatePublicKeyRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetCertificatePublicKeyRequest
```

# Class GetCertificatePublicKeyResponse

## Inheritance

[object](#)

GetCertificatePublicKeyResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetCertificatePublicKeyResponse
```

## Properties

### certificatePublicKey

#### Declaration

```
public byte[] certificatePublicKey { get; set; }
```

#### Property Value

### Type Description

[byte\[\]](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

#### Property Value

Type	Description
------	-------------

[OperationStatus](#)

# Class GetCertificatePublicKeyResponse1

## Inheritance

[object](#)

GetCertificatePublicKeyResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetCertificatePublicKeyResponse1
```

## Constructors

### GetCertificatePublicKeyResponse1()

#### Declaration

```
public GetCertificatePublicKeyResponse1()
```

### GetCertificatePublicKeyResponse1(GetCertificatePublicKeyResponse)

#### Declaration

```
public GetCertificatePublicKeyResponse1(GetCertificatePublicKeyResponse GetCertificatePublicKeyResponse)
```

#### Parameters

Type	Name	Description
<a href="#">GetCertificatePublicKeyResponse</a>	GetCertificatePublicKeyResponse	

## Fields

### GetCertificatePublicKeyResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCertificatePublicKeyResponse GetCertificatePublicKeyResponse
```

#### Field Value

Type	Description
<a href="#">GetCertificatePublicKeyResponse</a>	



# Class GetSecurityModuleIntermediateCertificate

## Inheritance

[object](#)

GetSecurityModuleIntermediateCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEKA.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetSecurityModuleIntermediateCertificate
```

## Constructors

### GetSecurityModuleIntermediateCertificate()

#### Declaration

```
public GetSecurityModuleIntermediateCertificate()
```

### GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificateRequest)

#### Declaration

```
public GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetSecurityModuleIntermediateCertificateRequest</a>	GetSecurityModuleIntermediateCertificateRequest	

## Fields

### GetSecurityModuleIntermediateCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest
```

#### Field Value

Type	Description
<a href="#">GetSecurityModuleIntermediateCertificateRequest</a>	

# Class GetSecurityModuleIntermediateCertificateRequest

## Inheritance

[object](#)

GetSecurityModuleIntermediateCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetSecurityModuleIntermediateCertificateRequest
```

## Properties

### csrFile

#### Declaration

```
public byte[] csrFile { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### remarks

#### Declaration

```
public string remarks { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class GetSecurityModuleIntermediateCertificateResponse

## Inheritance

[object](#)

GetSecurityModuleIntermediateCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetSecurityModuleIntermediateCertificateResponse
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certificateFile

#### Declaration

```
public byte[] certificateFile { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

**Property Value**

Type	Description
<a href="#">OperationStatus</a>	

# Class GetSecurityModuleIntermediateCertificateResponse1

## Inheritance

[object](#)

GetSecurityModuleIntermediateCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEKA.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetSecurityModuleIntermediateCertificateResponse1
```

## Constructors

### GetSecurityModuleIntermediateCertificateResponse1()

#### Declaration

```
public GetSecurityModuleIntermediateCertificateResponse1()
```

### GetSecurityModuleIntermediateCertificateResponse1(GetSecurityModuleIntermediateCertificateResponse)

#### Declaration

```
public GetSecurityModuleIntermediateCertificateResponse1(GetSecurityModuleIntermediateCertificateResponse GetSecurityModuleIntermediateCertificateResponse)
```

## Parameters

Type	Name	Description
<a href="#">GetSecurityModuleIntermediateCertificateResponse</a>	GetSecurityModuleIntermediateCertificateResponse	

## Fields

### GetSecurityModuleIntermediateCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetSecurityModuleIntermediateCertificateResponse GetSecurityModuleIntermediateCertificateResponse
```

#### Field Value

Type	Description
<a href="#">GetSecurityModuleIntermediateCertificateResponse</a>	

# Class GetServiceOrganizationData

## Inheritance

[object](#)

GetServiceOrganizationData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServiceOrganizationData
```

## Constructors

### GetServiceOrganizationData()

#### Declaration

```
public GetServiceOrganizationData ()
```

### GetServiceOrganizationData(GetServiceOrganizationDataRequest)

#### Declaration

```
public GetServiceOrganizationData (GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServiceOrganizationDataRequest</a>	GetServiceOrganizationDataRequest	

## Fields

### GetServiceOrganizationDataRequest

#### Declaration

```
[MessageBodyMember (Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest
```

#### Field Value

Type	Description
<a href="#">GetServiceOrganizationDataRequest</a>	

# Class GetServiceOrganizationDataRequest

## Inheritance

[object](#)

GetServiceOrganizationDataRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServiceOrganizationDataRequest
```

# Class GetServiceOrganizationDataResponse

## Inheritance

[object](#)

GetServiceOrganizationDataResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetServiceOrganizationDataResponse
```

## Properties

### certificateNo

#### Declaration

```
public string certificateNo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certificateValidFrom

#### Declaration

```
public DateTime certificateValidFrom { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### certificateValidFromSpecified

#### Declaration

```
public bool certificateValidFromSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### certificateValidTo

#### Declaration



```
public DateTime certificateValidTo { get; set; }
```

**Property Value**

**Type Description**  
[DateTime](#)

### **certificateValidToSpecified**

**Declaration**

```
public bool certificateValidToSpecified { get; set; }
```

**Property Value**

**Type Description**  
[bool](#)

### **certifiedEmployees**

**Declaration**

```
public CertifiedEmployee[] certifiedEmployees { get; set; }
```

**Property Value**

**Type Description**  
[CertifiedEmployee\[\]](#)

### **error**

**Declaration**

```
public Error error { get; set; }
```

**Property Value**

**Type Description**  
[Error](#)

### **securityModuleIntermediateCertificates**

**Declaration**

```
public Certificate[] securityModuleIntermediateCertificates { get; set; }
```

**Property Value**

**Type Description**  
[Certificate\[\]](#)

### **servicedCashRegisterModels**

**Declaration**

```
public ServicedCashRegisterModel[] servicedCashRegisterModels { get; set; }
```

**Property Value**

**Type Description**  
[ServicedCashRegisterModel\[\]](#)

## **status**

### **Declaration**

```
public OperationStatus status { get; set; }
```

### **Property Value**

<b>Type</b>	<b>Description</b>
<a href="#">OperationStatus</a>	

## **transportModuleIntermediateCertificates**

### **Declaration**

```
public Certificate[] transportModuleIntermediateCertificates { get; set; }
```

### **Property Value**

<b>Type</b>	<b>Description</b>
<a href="#">Certificate[]</a>	

# Class GetServiceOrganizationDataResponse1

## Inheritance

[object](#)

GetServiceOrganizationDataResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetServiceOrganizationDataResponse1
```

## Constructors

### GetServiceOrganizationDataResponse1()

#### Declaration

```
public GetServiceOrganizationDataResponse1()
```

### GetServiceOrganizationDataResponse1(GetServiceOrganizationDataResponse)

#### Declaration

```
public GetServiceOrganizationDataResponse1(GetServiceOrganizationDataResponse GetServiceOrganizationDataResponse)
```

#### Parameters

Type	Name	Description
<a href="#">GetServiceOrganizationDataResponse</a>	GetServiceOrganizationDataResponse	

## Fields

### GetServiceOrganizationDataResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetServiceOrganizationDataResponse GetServiceOrganizationDataResponse
```

#### Field Value

Type	Description
<a href="#">GetServiceOrganizationDataResponse</a>	

# Class GetTransportModuleIntermediateCertificate

## Inheritance

[object](#)

GetTransportModuleIntermediateCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetTransportModuleIntermediateCertificate
```

## Constructors

### GetTransportModuleIntermediateCertificate()

#### Declaration

```
public GetTransportModuleIntermediateCertificate()
```

### GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificateRequest)

#### Declaration

```
public GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificateRequest GetTransportModuleIntermediateCertificateRequest)
```

## Parameters

Type	Name	Description
<a href="#">GetTransportModuleIntermediateCertificateRequest</a>	GetTransportModuleIntermediateCertificateRequest	

## Fields

### GetTransportModuleIntermediateCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetTransportModuleIntermediateCertificateRequest GetTransportModuleIntermediateCertificateRequest
```

## Field Value

Type	Description
<a href="#">GetTransportModuleIntermediateCertificateRequest</a>	

# Class GetTransportModuleIntermediateCertificateRequest

## Inheritance

[object](#)

GetTransportModuleIntermediateCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetTransportModuleIntermediateCertificateRequest
```

## Properties

### csrFile

#### Declaration

```
public byte[] csrFile { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### remarks

#### Declaration

```
public string remarks { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class GetTransportModuleIntermediateCertificateResponse

## Inheritance

[object](#)

GetTransportModuleIntermediateCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class GetTransportModuleIntermediateCertificateResponse
```

## Properties

### certID

#### Declaration

```
public string certID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### certificateFile

#### Declaration

```
public byte[] certificateFile { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

#### Type Description

[Error](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

**Property Value**

Type	Description
<a href="#">OperationStatus</a>	

# Class GetTransportModuleIntermediateCertificateResponse1

## Inheritance

[object](#)

GetTransportModuleIntermediateCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class GetTransportModuleIntermediateCertificateResponse1
```

## Constructors

### GetTransportModuleIntermediateCertificateResponse1()

#### Declaration

```
public GetTransportModuleIntermediateCertificateResponse1()
```

### GetTransportModuleIntermediateCertificateResponse1(GetTransportModuleIntermediateCertificateResponse)

#### Declaration

```
public GetTransportModuleIntermediateCertificateResponse1(GetTransportModuleIntermediateCertificateResponse GetTransportModuleIntermediateCertificateResponse)
```

## Parameters

Type	Name	Description
<a href="#">GetTransportModuleIntermediateCertificateResponse</a>	GetTransportModuleIntermediateCertificateResponse	

## Fields

### GetTransportModuleIntermediateCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.iEka.vmi.lt", Order = 0)]  
public GetTransportModuleIntermediateCertificateResponse GetTransportModuleIntermediateCertificateResponse
```

## Field Value

Type	Description
<a href="#">GetTransportModuleIntermediateCertificateResponse</a>	



# Enum Locale

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum Locale
```

## Fields

Name	Description
------	-------------

EN	
----	--

LT	
----	--

# Enum OperationStatus

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum OperationStatus
```

## Fields

Name	Description
ERROR	
SUCCESS	

# Class ProvideInfoToCrossedOutEmployeeCertificate

## Inheritance

[object](#)

ProvideInfoToCrossedOutEmployeeCertificate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class ProvideInfoToCrossedOutEmployeeCertificate
```

## Constructors

### ProvideInfoToCrossedOutEmployeeCertificate()

#### Declaration

```
public ProvideInfoToCrossedOutEmployeeCertificate()
```

### ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificateRequest)

#### Declaration

```
public ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCrossedOutEmployeeCertificateRequest)
```

## Parameters

Type	Name	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateRequest</a>	ProvideInfoToCrossedOutEmployeeCertificateRequest	

## Fields

### ProvideInfoToCrossedOutEmployeeCertificateRequest

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCrossedOutEmployeeCertificateRequest
```

## Field Value

Type	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateRequest</a>	

# Class ProvideInfoToCrossedOutEmployeeCertificateRequest

## Inheritance

[object](#)

ProvideInfoToCrossedOutEmployeeCertificateRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ProvideInfoToCrossedOutEmployeeCertificateRequest
```

## Properties

### id

#### Declaration

```
public long id { get; set; }
```

#### Property Value

#### Type Description

[long](#)

# Class ProvideInfoToCrossedOutEmployeeCertificateResponse

## Inheritance

[object](#)

ProvideInfoToCrossedOutEmployeeCertificateResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ProvideInfoToCrossedOutEmployeeCertificateResponse
```

## Properties

### error

#### Declaration

```
public Error error { get; set; }
```

#### Property Value

### Type Description

[Error](#)

### providedInfoToCrossedOutDate

#### Declaration

```
public DateTime providedInfoToCrossedOutDate { get; set; }
```

#### Property Value

### Type Description

[DateTime](#)

### providedInfoToCrossedOutDateSpecified

#### Declaration

```
public bool providedInfoToCrossedOutDateSpecified { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### status

#### Declaration

```
public OperationStatus status { get; set; }
```

**Property Value**

Type	Description
<a href="#">OperationStatus</a>	

# Class ProvideInfoToCrossedOutEmployeeCertificateResponse1

## Inheritance

[object](#)

ProvideInfoToCrossedOutEmployeeCertificateResponse1

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[MessageContract(IsWrapped = false)]  
public class ProvideInfoToCrossedOutEmployeeCertificateResponse1
```

## Constructors

### ProvideInfoToCrossedOutEmployeeCertificateResponse1()

#### Declaration

```
public ProvideInfoToCrossedOutEmployeeCertificateResponse1()
```

### ProvideInfoToCrossedOutEmployeeCertificateResponse1(ProvideInfoToCrossedOutEmployeeCertificateResponse)

#### Declaration

```
public ProvideInfoToCrossedOutEmployeeCertificateResponse1(ProvideInfoToCrossedOutEmployeeCertificateResponse ProvideInfoToCrossedOutEmployeeCertificateResponse)
```

## Parameters

Type	Name	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateResponse</a>	ProvideInfoToCrossedOutEmployeeCertificateResponse	

## Fields

### ProvideInfoToCrossedOutEmployeeCertificateResponse

#### Declaration

```
[MessageBodyMember(Namespace = "http://service-company.iEka.vmi.lt", Order = 0)]  
public ProvideInfoToCrossedOutEmployeeCertificateResponse ProvideInfoToCrossedOutEmployeeCertificateResponse
```

## Field Value

Type	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateResponse</a>	

# Interface ServiceCompanyWebService

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[ServiceContract(Namespace = "http://service-company.ieka.vmi.lt", ConfigurationName = "RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService.ServiceCompa  
public interface ServiceCompanyWebService
```

## Methods

### CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
CancelSecurityModuleIntermediateCertificateResponse1 CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
<a href="#">CancelSecurityModuleIntermediateCertificate</a>	request	

Returns

Type	Description
<a href="#">CancelSecurityModuleIntermediateCertificateResponse1</a>	

### CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<CancelSecurityModuleIntermediateCertificateResponse1> CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
<a href="#">CancelSecurityModuleIntermediateCertificate</a>	request	

Returns

Type	Description
<a href="#">Task&lt;CancelSecurityModuleIntermediateCertificateResponse1&gt;</a>	

### CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
CancelTransportModuleIntermediateCertificateResponse1 CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
<a href="#">CancelTransportModuleIntermediateCertificate</a>	request	

Returns

Type	Description
<a href="#">CancelTransportModuleIntermediateCertificateResponse1</a>	

### CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<CancelTransportModuleIntermediateCertificateResponse1> CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
<a href="#">CancelTransportModuleIntermediateCertificate</a>	request	

Returns

Type	Description
<a href="#">Task&lt;CancelTransportModuleIntermediateCertificateResponse1&gt;</a>	

### GetCashRegisterModels(GetCashRegisterModels)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetCashRegisterModelsResponse1 GetCashRegisterModels(GetCashRegisterModels request)
```

Parameters

Type	Name	Description
<a href="#">GetCashRegisterModels</a>	request	

Returns

Type	Description
<a href="#">GetCashRegisterModelsResponse1</a>	



## GetCashRegisterModelsAsync(GetCashRegisterModels)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetCashRegisterModelsResponse1> GetCashRegisterModelsAsync(GetCashRegisterModels request)
```

### Parameters

Type	Name	Description
<a href="#">GetCashRegisterModels</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetCashRegisterModelsResponse1&gt;</a>	

## GetCertificatePublicKey(GetCertificatePublicKey)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetCertificatePublicKeyResponse1 GetCertificatePublicKey(GetCertificatePublicKey request)
```

### Parameters

Type	Name	Description
<a href="#">GetCertificatePublicKey</a>	request	

### Returns

Type	Description
<a href="#">GetCertificatePublicKeyResponse1</a>	

## GetCertificatePublicKeyAsync(GetCertificatePublicKey)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetCertificatePublicKeyResponse1> GetCertificatePublicKeyAsync(GetCertificatePublicKey request)
```

### Parameters

Type	Name	Description
<a href="#">GetCertificatePublicKey</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetCertificatePublicKeyResponse1&gt;</a>	

## GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificate)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetSecurityModuleIntermediateCertificateResponse1 GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificate request)
```

### Parameters

Type	Name	Description
<a href="#">GetSecurityModuleIntermediateCertificate</a>	request	

### Returns

Type	Description
<a href="#">GetSecurityModuleIntermediateCertificateResponse1</a>	

## GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificate)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetSecurityModuleIntermediateCertificateResponse1> GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificate request)
```

### Parameters

Type	Name	Description
<a href="#">GetSecurityModuleIntermediateCertificate</a>	request	

### Returns

Type	Description
<a href="#">Task&lt;GetSecurityModuleIntermediateCertificateResponse1&gt;</a>	

## GetServiceOrganizationData(GetServiceOrganizationData)

### Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServiceOrganizationDataResponse1 GetServiceOrganizationData(GetServiceOrganizationData request)
```

### Parameters

Type	Name	Description
<a href="#">GetServiceOrganizationData</a>	request	

### Returns

**Type Description**

[GetServiceOrganizationDataResponse1](#)

### GetServiceOrganizationDataAsync(GetServiceOrganizationData)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
Task<GetServiceOrganizationDataResponse1> GetServiceOrganizationDataAsync(GetServiceOrganizationData request)
```

#### Parameters

**Type Name Description**

[GetServiceOrganizationData](#) request

#### Returns

**Type Description**

[Task<GetServiceOrganizationDataResponse1>](#)

### GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificate)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetTransportModuleIntermediateCertificateResponse1 GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificate request)
```

#### Parameters

**Type Name Description**

[GetTransportModuleIntermediateCertificate](#) request

#### Returns

**Type Description**

[GetTransportModuleIntermediateCertificateResponse1](#)

### GetTransportModuleIntermediateCertificate.Async(GetTransportModuleIntermediateCertificate)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<GetTransportModuleIntermediateCertificateResponse1> GetTransportModuleIntermediateCertificateAsync(GetTransportModuleIntermediateCertificate request)
```

#### Parameters

**Type Name Description**

[GetTransportModuleIntermediateCertificate](#) request

#### Returns

**Type Description**

[Task<GetTransportModuleIntermediateCertificateResponse1>](#)

### ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificate)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
ProvideInfoToCrossedOutEmployeeCertificateResponse1 ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificate request)
```

#### Parameters

**Type Name Description**

[ProvideInfoToCrossedOutEmployeeCertificate](#) request

#### Returns

**Type Description**

[ProvideInfoToCrossedOutEmployeeCertificateResponse1](#)

### ProvideInfoToCrossedOutEmployeeCertificate.Async(ProvideInfoToCrossedOutEmployeeCertificate)

#### Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<ProvideInfoToCrossedOutEmployeeCertificateResponse1> ProvideInfoToCrossedOutEmployeeCertificateAsync(ProvideInfoToCrossedOutEmployeeCertificate request)
```

#### Parameters

**Type Name Description**

[ProvideInfoToCrossedOutEmployeeCertificate](#) request

#### Returns

**Type Description**

[Task<ProvideInfoToCrossedOutEmployeeCertificateResponse1>](#)

## Interface ServiceCompanyWebServiceChannel

### Inherited Members

[ServiceCompanyWebService.CancelSecurityModuleIntermediateCertificate\(CancelSecurityModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.CancelSecurityModuleIntermediateCertificateAsync\(CancelSecurityModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.GetSecurityModuleIntermediateCertificate\(GetSecurityModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.GetSecurityModuleIntermediateCertificateAsync\(GetSecurityModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.GetCertificatePublicKey\(GetCertificatePublicKey\)](#)  
[ServiceCompanyWebService.GetCertificatePublicKeyAsync\(GetCertificatePublicKey\)](#)  
[ServiceCompanyWebService.CancelTransportModuleIntermediateCertificate\(CancelTransportModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.CancelTransportModuleIntermediateCertificateAsync\(CancelTransportModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.GetTransportModuleIntermediateCertificate\(GetTransportModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.GetTransportModuleIntermediateCertificateAsync\(GetTransportModuleIntermediateCertificate\)](#)  
[ServiceCompanyWebService.ProvideInfoToCrossedOutEmployeeCertificate\(ProvideInfoToCrossedOutEmployeeCertificate\)](#)  
[ServiceCompanyWebService.ProvideInfoToCrossedOutEmployeeCertificateAsync\(ProvideInfoToCrossedOutEmployeeCertificate\)](#)  
[ServiceCompanyWebService.GetCashRegisterModels\(GetCashRegisterModels\)](#)  
[ServiceCompanyWebService.GetCashRegisterModelsAsync\(GetCashRegisterModels\)](#)  
[ServiceCompanyWebService.GetServiceOrganizationData\(GetServiceOrganizationData\)](#)  
[ServiceCompanyWebService.GetServiceOrganizationDataAsync\(GetServiceOrganizationData\)](#)  
[IClientChannel.BeginDisplayInitializationUI\(AsyncCallback, object\)](#)  
[IClientChannel.DisplayInitializationUI\(\)](#)  
[IClientChannel.EndDisplayInitializationUI\(IAsyncResult\)](#)  
[IClientChannel.AllowInitializationUI\(\)](#)  
[IClientChannel.DidInteractiveInitialization\(\)](#)  
[IClientChannel.Via\(\)](#)  
[IClientChannel.UnknownMessageReceived\(\)](#)  
[IDisposable.Dispose\(\)](#)  
[IContextChannel.AllowOutputBatching\(\)](#)  
[IContextChannel.InputSession\(\)](#)  
[IContextChannel.LocalAddress\(\)](#)  
[IContextChannel.OperationTimeout\(\)](#)  
[IContextChannel.OutputSession\(\)](#)  
[IContextChannel.RemoteAddress\(\)](#)  
[IContextChannel.SessionId\(\)](#)  
[IChannel.GetProperty<T>\(\)](#)  
[ICommunicationObject.Abort\(\)](#)  
[ICommunicationObject.BeginClose\(AsyncCallback, object\)](#)  
[ICommunicationObject.BeginClose\(TimeSpan, AsyncCallback, object\)](#)  
[ICommunicationObject.BeginOpen\(AsyncCallback, object\)](#)  
[ICommunicationObject.BeginOpen\(TimeSpan, AsyncCallback, object\)](#)  
[ICommunicationObject.Close\(\)](#)  
[ICommunicationObject.Close\(TimeSpan\)](#)  
[ICommunicationObject.EndClose\(IAsyncResult\)](#)  
[ICommunicationObject.EndOpen\(IAsyncResult\)](#)  
[ICommunicationObject.Open\(\)](#)  
[ICommunicationObject.Open\(TimeSpan\)](#)  
[ICommunicationObject.State](#)  
[ICommunicationObject.Closed](#)  
[ICommunicationObject.Closing](#)  
[ICommunicationObject.Faulted](#)  
[ICommunicationObject.Opened](#)  
[ICommunicationObject.Opening](#)  
[IExtensibleObject<IContextChannel>.Extensions](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

**Assembly:** [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public interface ServiceCompanyWebServiceChannel : ServiceCompanyWebService, IClientChannel, IDisposable, IContextChannel, IChannel, ICommunicationObject, IExtensibleObject<ICont
```

# Class ServiceCompanyWebServiceClient

## Inheritance

[object](#)  
[ClientBase<ServiceCompanyWebService>](#)  
ServiceCompanyWebServiceClient

## Implements

[IDisposable](#)  
[ICommunicationObject](#)  
[IAsyncDisposable](#)  
[ServiceCompanyWebService](#)

## Inherited Members

[ClientBase<ServiceCompanyWebService>.Abort\(\)](#)  
[ClientBase<ServiceCompanyWebService>.Close\(\)](#)  
[ClientBase<ServiceCompanyWebService>.Open\(\)](#)  
[ClientBase<ServiceCompanyWebService>.CreateChannel\(\)](#)  
[ClientBase<ServiceCompanyWebService>.GetDefaultValueForInitialization<T>\(\)](#)  
[ClientBase<ServiceCompanyWebService>.InvokeAsync\(ClientBase<ServiceCompanyWebService>.BeginOperationDelegate, object\[\], ClientBase<ServiceCompanyWebService>.EndOperationDelegate, SendOrPostCallback, object\)](#)  
[ClientBase<ServiceCompanyWebService>.CloseAsync\(\)](#)  
[ClientBase<ServiceCompanyWebService>.Channel](#)  
[ClientBase<ServiceCompanyWebService>.CacheSetting](#)  
[ClientBase<ServiceCompanyWebService>.ChannelFactory](#)  
[ClientBase<ServiceCompanyWebService>.ClientCredentials](#)  
[ClientBase<ServiceCompanyWebService>.Endpoint](#)  
[ClientBase<ServiceCompanyWebService>.InnerChannel](#)  
[ClientBase<ServiceCompanyWebService>.State](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ServiceCompanyWebServiceClient : ClientBase<ServiceCompanyWebService>, IDisposable, ICommunicationObject, IAsyncDisposable, ServiceCompanyWebService
```

## Constructors

### ServiceCompanyWebServiceClient()

#### Declaration

```
public ServiceCompanyWebServiceClient()
```

### ServiceCompanyWebServiceClient(EndpointConfiguration)

#### Declaration

```
public ServiceCompanyWebServiceClient(ServiceCompanyWebServiceClient.EndpointConfiguration endpointConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">ServiceCompanyWebServiceClient.EndpointConfiguration</a>	endpointConfiguration	

### ServiceCompanyWebServiceClient(EndpointConfiguration, EndpointAddress)

#### Declaration

```
public ServiceCompanyWebServiceClient(ServiceCompanyWebServiceClient.EndpointConfiguration endpointConfiguration, EndpointAddress remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">ServiceCompanyWebServiceClient.EndpointConfiguration</a>	endpointConfiguration	
<a href="#">EndpointAddress</a>	remoteAddress	

### ServiceCompanyWebServiceClient(EndpointConfiguration, string)

#### Declaration

```
public ServiceCompanyWebServiceClient(ServiceCompanyWebServiceClient.EndpointConfiguration endpointConfiguration, string remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">ServiceCompanyWebServiceClient.EndpointConfiguration</a>	endpointConfiguration	
<a href="#">string</a>	remoteAddress	

### ServiceCompanyWebServiceClient(Binding, EndpointAddress)

#### Declaration

```
public ServiceCompanyWebServiceClient(Binding binding, EndpointAddress remoteAddress)
```

#### Parameters

Type	Name	Description
<a href="#">Binding</a>	binding	
<a href="#">EndpointAddress</a>	remoteAddress	

## Methods

### CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificateRequest)

#### Declaration

```
public CancelSecurityModuleIntermediateCertificateResponse CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificateRequest CancelSecurityModuleInte:
```

#### Parameters

Type	Name	Description
<a href="#">CancelSecurityModuleIntermediateCertificateRequest</a>	CancelSecurityModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">CancelSecurityModuleIntermediateCertificateResponse</a>	

### CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificateRequest)

#### Declaration

```
public Task<CancelSecurityModuleIntermediateCertificateResponse> CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificateRequest CancelSecuri:
```

#### Parameters

Type	Name	Description
<a href="#">CancelSecurityModuleIntermediateCertificateRequest</a>	CancelSecurityModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">Task&lt;CancelSecurityModuleIntermediateCertificateResponse&gt;</a>	

### CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificateRequest)

#### Declaration

```
public CancelTransportModuleIntermediateCertificateResponse CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificateRequest CancelTransportModule:
```

#### Parameters

Type	Name	Description
<a href="#">CancelTransportModuleIntermediateCertificateRequest</a>	CancelTransportModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">CancelTransportModuleIntermediateCertificateResponse</a>	

### CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificateRequest)

#### Declaration

```
public Task<CancelTransportModuleIntermediateCertificateResponse> CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificateRequest CancelTra:
```

#### Parameters

Type	Name	Description
<a href="#">CancelTransportModuleIntermediateCertificateRequest</a>	CancelTransportModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">Task&lt;CancelTransportModuleIntermediateCertificateResponse&gt;</a>	

### GetCashRegisterModels(GetCashRegisterModelsRequest)

#### Declaration

```
public GetCashRegisterModelsResponse GetCashRegisterModels(GetCashRegisterModelsRequest GetCashRegisterModelsRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetCashRegisterModelsRequest</a>	GetCashRegisterModelsRequest	

#### Returns

Type	Description
<a href="#">GetCashRegisterModelsResponse</a>	

### GetCashRegisterModelsAsync(GetCashRegisterModelsRequest)

#### Declaration

```
public Task<GetCashRegisterModelsResponse> GetCashRegisterModelsAsync(GetCashRegisterModelsRequest GetCashRegisterModelsRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetCashRegisterModelsRequest</a>	GetCashRegisterModelsRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetCashRegisterModelsResponse&gt;</a>	

### GetCertificatePublicKey(GetCertificatePublicKeyRequest)

#### Declaration

```
public GetCertificatePublicKeyResponse GetCertificatePublicKey(GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetCertificatePublicKeyRequest</a>	GetCertificatePublicKeyRequest	

#### Returns

Type	Description
<a href="#">GetCertificatePublicKeyResponse</a>	

### GetCertificatePublicKeyAsync(GetCertificatePublicKeyRequest)

#### Declaration

```
public Task<GetCertificatePublicKeyResponse> GetCertificatePublicKeyAsync(GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetCertificatePublicKeyRequest</a>	GetCertificatePublicKeyRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetCertificatePublicKeyResponse&gt;</a>	

### GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificateRequest)

#### Declaration

```
public GetSecurityModuleIntermediateCertificateResponse GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetSecurityModuleIntermediateCertificateRequest</a>	GetSecurityModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">GetSecurityModuleIntermediateCertificateResponse</a>	

### GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificateRequest)

#### Declaration

```
public Task<GetSecurityModuleIntermediateCertificateResponse> GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetSecurityModuleIntermediateCertificateRequest</a>	GetSecurityModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetSecurityModuleIntermediateCertificateResponse&gt;</a>	

### GetServiceOrganizationData(GetServiceOrganizationDataRequest)

#### Declaration

```
public GetServiceOrganizationDataResponse GetServiceOrganizationData(GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServiceOrganizationDataRequest</a>	GetServiceOrganizationDataRequest	

#### Returns

Type	Description
<a href="#">GetServiceOrganizationDataResponse</a>	

### GetServiceOrganizationDataAsync(GetServiceOrganizationDataRequest)

#### Declaration

```
public Task<GetServiceOrganizationDataResponse> GetServiceOrganizationDataAsync(GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest)
```

#### Parameters

Type	Name	Description
<a href="#">GetServiceOrganizationDataRequest</a>	GetServiceOrganizationDataRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetServiceOrganizationDataResponse&gt;</a>	

### GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificateRequest)

#### Declaration

```
public GetTransportModuleIntermediateCertificateResponse GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificateRequest GetTransportModuleIntermediateC
```

#### Parameters

Type	Name	Description
<a href="#">GetTransportModuleIntermediateCertificateRequest</a>	GetTransportModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">GetTransportModuleIntermediateCertificateResponse</a>	

#### GetTransportModuleIntermediateCertificate.Async(GetTransportModuleIntermediateCertificateRequest)

#### Declaration

```
public Task<GetTransportModuleIntermediateCertificateResponse> GetTransportModuleIntermediateCertificateAsync(GetTransportModuleIntermediateCertificateRequest GetTransportModuleI
```

#### Parameters

Type	Name	Description
<a href="#">GetTransportModuleIntermediateCertificateRequest</a>	GetTransportModuleIntermediateCertificateRequest	

#### Returns

Type	Description
<a href="#">Task&lt;GetTransportModuleIntermediateCertificateResponse&gt;</a>	

#### OpenAsync()

#### Declaration

```
public virtual Task OpenAsync()
```

#### Returns

#### Type Description

[Task](#)

#### ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificateRequest)

#### Declaration

```
public ProvideInfoToCrossedOutEmployeeCertificateResponse ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCrossedOutEmpl
```

#### Parameters

Type	Name	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateRequest</a>	ProvideInfoToCrossedOutEmployeeCertificateRequest	

#### Returns

Type	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateResponse</a>	

#### ProvideInfoToCrossedOutEmployeeCertificate.Async(ProvideInfoToCrossedOutEmployeeCertificateRequest)

#### Declaration

```
public Task<ProvideInfoToCrossedOutEmployeeCertificateResponse> ProvideInfoToCrossedOutEmployeeCertificateAsync(ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCr
```

#### Parameters

Type	Name	Description
<a href="#">ProvideInfoToCrossedOutEmployeeCertificateRequest</a>	ProvideInfoToCrossedOutEmployeeCertificateRequest	

#### Returns

Type	Description
<a href="#">Task&lt;ProvideInfoToCrossedOutEmployeeCertificateResponse&gt;</a>	

#### Implements

[IDisposable](#)  
[ICommunicationObject](#)  
[IAsyncDisposable](#)  
[ServiceCompanyWebService](#)

# Enum ServiceCompanyWebServiceClient.EndpointConfiguration

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ServiceCompanyWebServiceClient.EndpointConfiguration
```

## Fields

Name	Description
ServiceCompanyWebService	



# Class ServicedCashRegisterModel

## Inheritance

[object](#)

ServicedCashRegisterModel

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.IEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ServicedCashRegisterModel
```

## Properties

### cashRegisterModel

#### Declaration

```
public CashRegisterModel cashRegisterModel { get; set; }
```

#### Property Value

Type	Description
<a href="#">CashRegisterModel</a>	

### state

#### Declaration

```
public ServicedCashRegisterModelState state { get; set; }
```

#### Property Value

Type	Description
<a href="#">ServicedCashRegisterModelState</a>	

### validFrom

#### Declaration

```
public DateTime validFrom { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTime</a>	

### validTo

#### Declaration

```
public DateTime validTo { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**validToSpecified**

**Declaration**

```
public bool validToSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Enum ServicedCashRegisterModelState

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ServicedCashRegisterModelState
```

## Fields

Name	Description
CROSSED_OUT	
VALID	

# Class Version

## Inheritance

[object](#)

Version

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Lithuania.iEka.ServiceCompanyService](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Version
```

## Properties

### description

#### Declaration

```
public string description { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### id

#### Declaration

```
public long id { get; set; }
```

#### Property Value

#### Type Description

[long](#)

### validFrom

#### Declaration

```
public DateTime validFrom { get; set; }
```

#### Property Value

#### Type Description

[DateTime](#)

### validTo

#### Declaration

```
public DateTime validTo { get; set; }
```

**Property Value**

**Type Description**

[DateTime](#)

**validToSpecified**

**Declaration**

```
public bool validToSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**versionName**

**Declaration**

```
public string versionName { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Namespace RetailForce.Fiscalisation.Implementation.NoFiscalisation

## Classes

### [ClientConfiguration](#)

Client configuration for no fiscalisation.

### [FiscalResponseNoFiscalisation](#)

### [NoFiscalisationProperties](#)

Properties for no fiscalisation (almost null or false).

### [TrustedFiscalModuleNoFiscalisation](#)

Fiscalisation unit for clients without fiscalisation.

# Class ClientConfiguration

Client configuration for no fiscalisation.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.NoFiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

#### Property Value

Type	Description
------	-------------

[FiscalCountry](#)

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

#### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	
----------------------	----------------	--

#### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

#### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.
--	------------------	---

#### Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.
---------------------------------------	---

#### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

#### Implements

[IFiscalImplementationConfiguration](#)



# Class FiscalResponseNoFiscalisation

## Inheritance

[object](#)

FiscalResponseNoFiscalisation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.NoFiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiscalResponseNoFiscalisation
```

## Methods

### GetFiscalResponseNoFiscalisation(string)

#### Declaration

```
public static FiscalResponse GetFiscalResponseNoFiscalisation(string retailForceReceiptId)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	retailForceReceiptId	

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	

# Class NoFiscalisationProperties

Properties for no fiscalisation (almost null or false).

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<RequiredAttribute>](#)

NoFiscalisationProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<RequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<RequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.NoFiscalisation](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class NoFiscalisationProperties : FiscalCountryPropertiesBase<RequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

### Declaration

```
public override bool AuditLogMandatory { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

##### Type Description

[Version](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.CountryModuleVersion](#)

### CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

#### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

#### Property Value

##### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.CustomerDisplayMandatory](#)

### FiscalCountry

The fiscal country for this property collection.

#### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

#### Property Value

##### Type Description

[FiscalCountry](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.FiscalCountry](#)

### FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

#### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

#### Property Value

##### Type Description

[List<DocumentType>](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.FiscalDocumentTypes](#)

### **FiscalLineInterface**

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

#### **Declaration**

```
public override bool FiscalLineInterface { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

#### **Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.FiscalLineInterface](#)

### **GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

#### **Declaration**

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### **Property Value**

#### **Type Description**

[string](#)

#### **Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### **Remarks**

Return empty string if there is not cloud

### **MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### **Declaration**

```
public override int MaximumHourIntervalForClosing { get; }
```

#### **Property Value**

#### **Type Description**

[int](#)

#### **Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.MaximumHourIntervalForClosing](#)

#### **Remarks**

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

### **MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.MustRecordDocumentReprint](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

#### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.NotSupportedDocumentTypes](#)

## Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (ofFiscalResponse) has to be printed out on the receipt or not.

### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.PrintFiscalDocumentNumber](#)

## ReprintAllowedDomain

Returns the domain within reprints are allowed.

### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.ReprintAllowedDomain](#)

## ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

### Property Value

Type	Description
------	-------------

[ReturnAndSaleBehavior](#)

**Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.ReturnAndSaleBehavior](#)

**ReturnDomainAllowed**

Returns the domain where document references are allowed.

**Declaration**

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

**Property Value**

Type	Description
------	-------------

[ReceiptDomain](#)

**Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.ReturnDomainAllowed](#)

**ReturnReferenceBehavior**

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

**Declaration**

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

**Property Value**

Type	Description
------	-------------

[ReturnReferenceBehavior](#)

**Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.ReturnReferenceBehavior](#)

**SupportedBusinessTransactionTypes**

Returns a list of all supported business transaction types.

**Declaration**

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

**Property Value**

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

**Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.SupportedBusinessTransactionTypes](#)

**SupportedDocumentTypes**

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

**Declaration**

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.SupportedPaymentTypes](#)

### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.SupportedVatDefinitions](#)

### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

#### Property Value

Type Description
<a href="#">bool</a>

#### Overrides



[FiscalCountryPropertiesBase<RequiredAttribute>.SurchargesPossible](#)

## **TaxFreeVat**

The tax free vat class for this country.

### **Declaration**

```
public override Vat TaxFreeVat { get; }
```

### **Property Value**

### **Type Description**

[Vat](#)

### **Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.TaxFreeVat](#)

## **TrainingModeAllowed**

True if the training mode in this country is allowed; otherwise false.

### **Declaration**

```
public override bool TrainingModeAllowed { get; }
```

### **Property Value**

### **Type Description**

[bool](#)

### **Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.TrainingModeAllowed](#)

## **Methods**

### **ValidateClientImplementation(FiscalClient)**

#### **Declaration**

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### **Parameters**

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### **Returns**

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

#### **Overrides**

[FiscalCountryPropertiesBase<RequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## **Implements**

[IFiscalCountryProperties](#)

# Class TrustedFiscalModuleNoFiscalisation

Fiscalisation unit for clients without fiscalisation.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>](#)  
[TrustedFiscalModuleNoFiscalisation](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.NoFiscalisation](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleNoFiscalisation : TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>, IFiscalModuleImp
```

## Constructors

**TrustedFiscalModuleNoFiscalisation(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleNoFiscalisation(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storagePro
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Properties

## FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CancelDocument\(Document\)](#)

### CloudArchiveDownloadGermany(DateTime, DateTime, string)

Downloads previous archived data from the cloud.

### Declaration

```
public void CloudArchiveDownloadGermany(DateTime fromDate, DateTime tillDate, string destinationFolder)
```

### Parameters

Type	Name	Description
<a href="#">DateTime</a>	fromDate	The start date of the download.
<a href="#">DateTime</a>	tillDate	The end date of the download.
<a href="#">string</a>	destinationFolder	The destination folder to store. The directory must exist.

### Remarks

You cannot download more than one month at once.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>destinationFolder</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>tillDate</code> is before <code>fromDate</code> .
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter time range of <code>fromDate</code> and <code>tillDate</code> exceed one month.
<a href="#">DirectoryNotFoundException</a>	Thrown if the given directory ( <code>destinationFolder</code> ) is not found.
<a href="#">FileNotFoundException</a>	Thrown if no download is available.

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

## Type Description

[bool](#)

## Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

## Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

## CloudArchiveUploadGermany(List<UploadInfo>)

Method to upload several files to cloud archive.

## Declaration

```
public void CloudArchiveUploadGermany(List<UploadInfo> uploadFolders)
```

## Parameters

Type	Name	Description
------	------	-------------

[List<UploadInfo>](#) uploadFolders List of folders/files to upload.

## Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `uploadFolders` is set to null.

## CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

## Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

## Parameters

Type	Name	Description
------	------	-------------

[DocumentType](#) documentType The type of the document for which the document should be created.

## Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

## Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.CreateDocument\(DocumentType\)](#)

## Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

## DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

## Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

## Parameters

Type	Name	Description
------	------	-------------

[Document](#) endDocument A document of type [NullReceipt](#) representing the end document of the fiscalisation.

## Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

## Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.DecommissionClient\(Document\)](#)

## GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

## Declaration

```
public override string GetUniqueCashRegisterId()
```

## Returns

Type	Description
------	-------------

[string](#) The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModullImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Poland

## Classes

### [ClientConfiguration](#)

Client configuration class for poland.

### [FiscalResponsePoland](#)

Representation for fiscal response poland (additional fields)

### [PolandFiscalProperties](#)

Properties for Poland.

### [PolandFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for poland fiscalisation.

### [PolandValidation](#)

### [TrustedFiscalModulePoland](#)

# Class ClientConfiguration

Client configuration class for poland.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[ClientConfiguration](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ClientConfiguration.CloudArchive](#)

[ClientConfiguration.ItemCaptionFormat](#)

[ClientConfiguration.FlinkHttpInterfaceUrl](#)

[ClientConfiguration.Encoding](#)

[ClientConfiguration.SimplifiedInvoiceOriginalText](#)

[ClientConfiguration.SimplifiedInvoiceCaption](#)

[ClientConfiguration.SimplifiedReturnCaption](#)

[ClientConfiguration.SimplifiedInvoiceTaxNumberCaption](#)

[ClientConfiguration.SimplifiedInvoiceNetAmountCaption](#)

[ClientConfiguration.SimplifiedInvoiceVatAmountCaption](#)

[ClientConfiguration.SimplifiedInvoiceReferenceCaption](#)

[ClientConfiguration.SimplifiedInvoiceTaxSymbol](#)

[ClientConfiguration.SimplifiedInvoiceBusinessTaxNumberCaption](#)

[ClientConfiguration.FLinkPaymentMapping](#)

[ClientConfiguration.Encrypt\(Guid\)](#)

[ClientConfiguration.PreserveValues\(IFiscalImplementationConfiguration\)](#)

[ClientConfiguration.RemoveSensitiveData\(\)](#)

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Poland](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ClientConfiguration, IFiscalImplementationConfiguration
```

## Properties

### FiscalCountry

The fiscal country of the client configuration.



## Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Overrides

[ClientConfiguration.FiscalCountry](#)

## Implements

[IFiscalImplementationConfiguration](#)

## Class FiscalResponsePoland

Representation for fiscal response poland (additional fields)

### Inheritance

[object](#)

FiscalResponsePoland

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Poland](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponsePoland
```

### Remarks

At the moment there are no additional fields for poland.

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponsePoland(int, List<DocumentTaxPosition>, long, string, string, string, string, string)

Returns the fiscal response for poland out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponsePoland(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, string printMessage, string errorDescription, string usermessage)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	usermessage	The message which must be shown to the user of the cash register system. Optional parameter, empty if everything went well.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for poland.

# Class PolandFiscalProperties

Properties for Poland.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>](#)

[FlinkFiscalProperties<PolandFiscalisationRequiredAttribute>](#)

PolandFiscalProperties

## Implements

[IFlinkFiscalCountryProperties](#)

[IFiscalCountryProperties](#)

## Inherited Members

[FlinkFiscalProperties<PolandFiscalisationRequiredAttribute>.FiscalLineInterface](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Poland](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class PolandFiscalProperties : FlinkFiscalProperties<PolandFiscalisationRequiredAttribute>, IFlinkFiscalCountryProperties, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.CountryModuleVersion](#)

### CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

#### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

#### FiscalCountry

The fiscal country for this property collection.

#### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

Property Value

#### Type Description

[FiscalCountry](#)

Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.FiscalCountry](#)

#### FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

#### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

#### Type Description

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

#### GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

#### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

Property Value

#### Type Description

[string](#)

Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

Remarks

Return empty string if there is not cloud

#### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

Property Value

#### Type Description

[int](#)

Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

## MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

### Property Value

#### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

## MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

### Property Value

#### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of FiscalResponse) has to be printed out on the receipt or not.

#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnAndSaleBehavior](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnReferenceBehavior](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.SurchargesPossible](#)

#### TaxFreeVat

The tax free vat class for this country.

#### Declaration

```
public override Vat TaxFreeVat { get; }
```

#### Property Value

##### Type Description

[Vat](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.TaxFreeVat](#)

#### TaxGroupMapping

The tax group mapping

#### Declaration

```
public override Dictionary<int, int> TaxGroupMapping { get; }
```

#### Property Value

##### Type Description

[Dictionary<int, int>](#)

#### Overrides

[FlinkFiscalProperties<PolandFiscalisationRequiredAttribute>.TaxGroupMapping](#)

#### Remarks

Tax group a is starting with 1 not with 0.

#### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

#### Declaration

```
public override bool TrainingModeAllowed { get; }
```

#### Property Value

##### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

#### Methods

##### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

##### Type Name Description

[FiscalClient](#) client

#### Returns

##### Type Description

[List<ValidationError>](#)

#### Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

#### Implements

[IFlinkFiscalCountryProperties](#)

[IFiscalCountryProperties](#)



# Class PolandFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for poland fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
PolandFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Poland](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class PolandFiscalisationRequiredAttribute : RequiredAttribute
```

# Class PolandValidation

## Inheritance

[object](#)

PolandValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Poland](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PolandValidation
```

## Fields

### SupportedPaymentsMapping

#### Declaration

```
public static ReadOnlyDictionary<PaymentType, int> SupportedPaymentsMapping
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;PaymentType, int&gt;</a>	

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

Document validation for bulgaria.

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to validate.
--------------------------	----------	---------------------------

#### Returns

Type	Description
------	-------------

<a href="#">List</a> < <a href="#">DocumentValidationError</a> >	A list of validation errors if occurred; otherwise an empty list.
--	---

# Class TrustedFiscalModulePoland

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>](#)  
[TrustedFiscalModulePoland](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.MigrateClient\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SendClosing\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SynchronizeTime\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ExportZReportByDate\(bool, DateTime, DateTime\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ExportZReportByBlock\(uint, uint\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ExportKlen\(uint, uint\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Poland](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModulePoland : TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>, IFiscalModuleImplementation
```

## Constructors

**TrustedFiscalModulePoland(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModulePoland(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, Cl
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	

Type	Name	Description
<a href="#">string</a>	cloudApiSecret	

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

#### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.FiscalClientStatus](#)

### SimplifiedInvoiceBusinessTaxNumberCaption

Business tax number caption on simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceBusinessTaxNumberCaption { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceBusinessTaxNumberCaption](#)

### SimplifiedInvoiceCaption

Set this caption to enable simplified invoice in the country.

#### Declaration

```
protected override string SimplifiedInvoiceCaption { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceCaption](#)

### SimplifiedInvoiceNetAmountCaption

Net amount caption in vat overview of simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceNetAmountCaption { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceNetAmountCaption](#)

### SimplifiedInvoiceOriginalText

Text to print "original" at the receipt at simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceOriginalText { get; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceOriginalText](#)

### SimplifiedInvoiceReferenceCaption

Invoice document reference caption.

#### Declaration

```
protected override string SimplifiedInvoiceReferenceCaption { get; }
```

#### Property Value

Type	Description
------	-------------

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceReferenceCaption](#)

#### SimplifiedInvoiceTaxNumberCaption

Set the caption if you want to print taxnumber on receipt in the country.

#### Declaration

```
protected override string SimplifiedInvoiceTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceTaxNumberCaption](#)

#### SimplifiedInvoiceTaxSymbol

Tax symbol on simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceTaxSymbol { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceTaxSymbol](#)

#### SimplifiedInvoiceVatAmountCaption

Vat amount caption in vat overview of simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceVatAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceVatAmountCaption](#)

#### SimplifiedReturnCaption

Set this caption to set return caption of simplified invoice.

#### Declaration

```
protected override string SimplifiedReturnCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedReturnCaption](#)

## Methods

#### GetCountrySpecificEmptyFiscalResponse()

Returns an empty country specific [FiscalResponse](#).

#### Declaration

```
protected override FiscalResponse GetCountrySpecificEmptyFiscalResponse()
```

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	An object of type <a href="#">FiscalResponse</a> representing an empty country specific <a href="#">FiscalResponse</a> .

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetCountrySpecificEmptyFiscalResponse\(\)](#)

#### GetCountrySpecificFiscalResponse(string, List<DocumentTaxPosition>, string)

Returns the country specific [FiscalResponse](#) for the given parameters.

#### Declaration

```
protected override FiscalResponse GetCountrySpecificFiscalResponse(string signature, List<DocumentTaxPosition> taxPositions, string userMessage = "")
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	signature	The return value of the printer if everything goes well.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	The tax positions of the document.
<a href="#">string</a>	userMessage	The error message of the printer.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The country specific <a href="#">FiscalResponse</a> for the given parameters.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetCountrySpecificFiscalResponse\(string, List<DocumentTaxPosition>, string\)](#)

#### GetFlinkPaymentType(PaymentType)

Returns the flink payment type for the given payment type.

#### Declaration

```
protected override int GetFlinkPaymentType(PaymentType paymentType)
```

#### Parameters

Type	Name	Description
<a href="#">PaymentType</a>	paymentType	The <a href="#">PaymentType</a> to map.

#### Returns

Type	Description
<a href="#">int</a>	The flink payment type for the given payment type.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.GetFlinkPaymentType\(PaymentType\)](#)

#### Remarks

The [PaymentType](#) must be supported.

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.InitializeClient\(Document\)](#)

#### ValidateDocumentCountry(Document, bool)

Internal call for country document validation. Flink document validation is done before.

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentCountry(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.
<a href="#">bool</a>	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
------	-------------



Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.ValidateDocumentCountry\(Document, bool\)](#)

#### Implements

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Romania

## Classes

### [ClientConfiguration](#)

Client configuration class for poland.

### [FiscalResponseRomania](#)

Representation for fiscal response Romania (additional fields)

### [RomaniaFiscalProperties](#)

Properties for Romania.

### [RomaniaFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for romanian fiscalisation.

### [RomaniaValidation](#)

### [TrustedFiscalModuleRomania](#)

# Class ClientConfiguration

Client configuration class for poland.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[ClientConfiguration](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ClientConfiguration.CloudArchive](#)

[ClientConfiguration.ItemCaptionFormat](#)

[ClientConfiguration.FLinkHttpInterfaceUrl](#)

[ClientConfiguration.Encoding](#)

[ClientConfiguration.SimplifiedInvoiceOriginalText](#)

[ClientConfiguration.SimplifiedInvoiceCaption](#)

[ClientConfiguration.SimplifiedReturnCaption](#)

[ClientConfiguration.SimplifiedInvoiceTaxNumberCaption](#)

[ClientConfiguration.SimplifiedInvoiceNetAmountCaption](#)

[ClientConfiguration.SimplifiedInvoiceVatAmountCaption](#)

[ClientConfiguration.SimplifiedInvoiceReferenceCaption](#)

[ClientConfiguration.SimplifiedInvoiceTaxSymbol](#)

[ClientConfiguration.SimplifiedInvoiceBusinessTaxNumberCaption](#)

[ClientConfiguration.FLinkPaymentMapping](#)

[ClientConfiguration.Encrypt\(Guid\)](#)

[ClientConfiguration.PreserveValues\(IFiscalImplementationConfiguration\)](#)

[ClientConfiguration.RemoveSensitiveData\(\)](#)

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Romania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ClientConfiguration, IFiscalImplementationConfiguration
```

## Properties

### FiscalCountry

The fiscal country of the client configuration.

## Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## Overrides

[ClientConfiguration.FiscalCountry](#)

## Implements

[IFiscalImplementationConfiguration](#)

## Class FiscalResponseRomania

Representation for fiscal response Romania (additional fields)

### Inheritance

[object](#)

FiscalResponseRomania

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Romania](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseRomania
```

### Remarks

At the moment there are no additional fields for Romania.

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponseRomania(int, List<DocumentTaxPosition>, long, string, string, string, string)

Returns the fiscal response for Romania out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseRomania(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, str:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	usermessage	The message which must be shown to the user of the cash register system. Optional parameter, empty if everything went well.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for Romania.

# Class RomaniaFiscalProperties

Properties for Romania.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>](#)

[FlinkFiscalProperties<RomaniaFiscalisationRequiredAttribute>](#)

RomaniaFiscalProperties

## Implements

[IFlinkFiscalCountryProperties](#)

[IFiscalCountryProperties](#)

## Inherited Members

[FlinkFiscalProperties<RomaniaFiscalisationRequiredAttribute>.FiscalLineInterface](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Romania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RomaniaFiscalProperties : FlinkFiscalProperties<RomaniaFiscalisationRequiredAttribute>, IFlinkFiscalCountryProperties, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

[Version](#)

#### Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.CountryModuleVersion](#)

### CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

#### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

Property Value

**Type Description**

[bool](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

**FiscalCountry**

The fiscal country for this property collection.

Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

Property Value

**Type Description**

[FiscalCountry](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.FiscalCountry](#)

**FiscalDocumentTypes**

Returns a list of all fiscal necessary document types for this country.

Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

**Type Description**

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

**GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

Property Value

**Type Description**

[string](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

Remarks

Return empty string if there is not cloud

**MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

Property Value

**Type Description**

[int](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

**MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

#### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

#### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

#### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

#### PrintFiscalDocumentNumber



Returns whether the fiscal document number (ofFiscalResponse) has to be printed out on the receipt or not.

#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

#### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

#### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnAndSaleBehavior](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

#### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
------	-------------

[ReturnReferenceBehavior](#)

#### Overrides

[FiscaCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

#### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

### SupportedPaymentTypes

Returns a list of all supported payment types.

Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

### SupportedVatDefinitions

Returns the supported vat definitions for this country.

Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

Property Value

Type	Description
------	-------------

[ReadOnlyCollection<Vat>](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

Declaration

```
public override bool SurchargesPossible { get; }
```

Property Value

Type	Description
------	-------------

[bool](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

#### Type Description

[Vat](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.TaxFreeVat](#)

#### TaxGroupMapping

The tax group mapping

Declaration

```
public override Dictionary<int, int> TaxGroupMapping { get; }
```

Property Value

Type	Description
------	-------------

<a href="#">Dictionary&lt;int, int&gt;</a>	
--	--

Overrides

[IFlinkFiscalProperties<RomaniaFiscalisationRequiredAttribute>.TaxGroupMapping](#)

#### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

Declaration

```
public override bool TrainingModeAllowed { get; }
```

Property Value

#### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

#### Methods

##### ValidateClientImplementation(FiscalClient)

Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

Overrides

[FiscalCountryPropertiesBase<RomaniaFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

#### Implements

[IFlinkFiscalCountryProperties](#)

[IFiscalCountryProperties](#)

# Class RomaniaFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for romanian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
RomaniaFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Romania](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class RomaniaFiscalisationRequiredAttribute : RequiredAttribute
```

# Class RomaniaValidation

## Inheritance

[object](#)

RomaniaValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Romania](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RomaniaValidation
```

## Fields

### SupportedPaymentsMapping

#### Declaration

```
public static ReadOnlyDictionary<PaymentType, int> SupportedPaymentsMapping
```

#### Field Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;PaymentType, int&gt;</a>	

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

Document validation for bulgaria.

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to validate.
--------------------------	----------	---------------------------

#### Returns

Type	Description
------	-------------

<a href="#">List</a> < <a href="#">DocumentValidationError</a> >	A list of validation errors if occurred; otherwise an empty list.
--	---

# Class TrustedFiscalModuleRomania

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>](#)  
[TrustedFiscalModuleRomania](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.MigrateClient\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SendClosing\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SynchronizeTime\(\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ExportZReportByDate\(bool, DateTime, DateTime\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ExportZReportByBlock\(uint, uint\)](#)  
[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ExportKLen\(uint, uint\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Romania](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleRomania : TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>, IFiscalModuleImplement
```

## Constructors

**TrustedFiscalModuleRomania(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleRomania(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, C
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	



Type	Name	Description
<a href="#">string</a>	cloudApiSecret	

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

#### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.FiscalClientStatus](#)

### SimplifiedInvoiceBusinessTaxNumberCaption

Business tax number caption on simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceBusinessTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceBusinessTaxNumberCaption](#)

### SimplifiedInvoiceCaption

Set this caption to enable simplified invoice in the country.

#### Declaration

```
protected override string SimplifiedInvoiceCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceCaption](#)

### SimplifiedInvoiceNetAmountCaption

Net amount caption in vat overview of simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceNetAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceNetAmountCaption](#)

### SimplifiedInvoiceOriginalText

Text to print "original" at the receipt at simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceOriginalText { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceOriginalText](#)

### SimplifiedInvoiceReferenceCaption

Invoice document reference caption.

#### Declaration

```
protected override string SimplifiedInvoiceReferenceCaption { get; }
```

#### Property Value

#### Type Description

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceReferenceCaption](#)

#### SimplifiedInvoiceTaxNumberCaption

Set the caption if you want to print taxnumber on receipt in the country.

#### Declaration

```
protected override string SimplifiedInvoiceTaxNumberCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceTaxNumberCaption](#)

#### SimplifiedInvoiceTaxSymbol

Tax symbol on simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceTaxSymbol { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceTaxSymbol](#)

#### SimplifiedInvoiceVatAmountCaption

Vat amount caption in vat overview of simplified invoice.

#### Declaration

```
protected override string SimplifiedInvoiceVatAmountCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedInvoiceVatAmountCaption](#)

#### SimplifiedReturnCaption

Set this caption to set return caption of simplified invoice.

#### Declaration

```
protected override string SimplifiedReturnCaption { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.SimplifiedReturnCaption](#)

## Methods

#### GetCountrySpecificEmptyFiscalResponse()

Returns an empty country specific [FiscalResponse](#).

#### Declaration

```
protected override FiscalResponse GetCountrySpecificEmptyFiscalResponse()
```

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	An object of type <a href="#">FiscalResponse</a> representing an empty country specific <a href="#">FiscalResponse</a> .

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetCountrySpecificEmptyFiscalResponse\(\)](#)

#### GetCountrySpecificFiscalResponse(string, List<DocumentTaxPosition>, string)

Returns the country specific [FiscalResponse](#) for the given parameters.

#### Declaration

```
protected override FiscalResponse GetCountrySpecificFiscalResponse(string signature, List<DocumentTaxPosition> taxPositions, string userMessage = "")
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	signature	The return value of the printer if everything goes well.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	The tax positions of the document.
<a href="#">string</a>	userMessage	The error message of the printer.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The country specific <a href="#">FiscalResponse</a> for the given parameters.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetCountrySpecificFiscalResponse\(string, List<DocumentTaxPosition>, string\)](#)

#### GetFlinkPaymentType(PaymentType)

Returns the flink payment type for the given payment type.

#### Declaration

```
protected override int GetFlinkPaymentType(PaymentType paymentType)
```

#### Parameters

Type	Name	Description
<a href="#">PaymentType</a>	paymentType	The <a href="#">PaymentType</a> to map.

#### Returns

Type	Description
<a href="#">int</a>	The flink payment type for the given payment type.

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.GetFlinkPaymentType\(PaymentType\)](#)

#### Remarks

The [PaymentType](#) must be supported.

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.InitializeClient\(Document\)](#)

#### ValidateDocumentCountry(Document, bool)

Internal call for country document validation. Flink document validation is done before.

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentCountry(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.
<a href="#">bool</a>	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
------	-------------

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ValidateDocumentCountry\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Serbia

## Classes

### [ClientConfiguration](#)

The serbia country specific client configuration.

### [FiscalResponseSerbia](#)

Fiscal response (static class) for serbia.

### [SerbiaFiscalProperties](#)

Properties for serbia.

### [SerbiaFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for serbia fiscalisation.

### [SerbiaValidation](#)

### [TrustedFiscalModuleSerbia](#)

Fiscal module implementation for Serbia.

# Class ClientConfiguration

The serbia country specific client configuration.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### DoNotUseVSdc

True if the V-SDC service of the government should not be used; otherwise false. Default is false.

#### Declaration

```
public bool DoNotUseVSdc { get; set; }
```

**Property Value**

### **Type Description**

[bool](#)

### **FiscalCountry**

The fiscal country of the client configuration.

### **Declaration**

```
public FiscalCountry FiscalCountry { get; }
```

**Property Value**

### **Type Description**

[FiscalCountry](#)

### **VdcUrl**

The Url to the E-SDC device. If empty it is not used.

### **Declaration**

```
public string VdcUrl { get; set; }
```

**Property Value**

### **Type Description**

[string](#)

## **Methods**

### **Encrypt(Guid)**

Encrypts sensitive data.

### **Declaration**

```
public void Encrypt(Guid uniqueClientId)
```

### **Parameters**

### **Type Name Description**

[Guid](#) uniqueClientId

### **PreserveValues(IFiscalImplementationConfiguration)**

If necessary this method is called to preserve configuration values when updating the configuration.

### **Declaration**

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.
--	------------------	---

**Remarks**

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.
---------------------------------------	---

#### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

#### Implements

[IFiscalImplementationConfiguration](#)



## Class FiscalResponseSerbia

Fiscal response (static class) for serbia.

### Inheritance

[object](#)

FiscalResponseSerbia

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public static class FiscalResponseSerbia
```

### Methods

#### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

#### GetFiscalResponseSerbia(int, string, List<DocumentTaxPosition>, long, string, string, string, string, string, string, string, string, string)

Returns the fiscal response for croatia out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseSerbia(int fiscalisationDocumentNumber, string fiscalDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStart
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">string</a>	fiscalDocumentNumber	The fiscalisation document number as string.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific)
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	invoiceNr	The invoice number (sdc) of the response.
<a href="#">string</a>	qrCode	The qr code for the printout.
<a href="#">string</a>	invoiceCounter	The invoice counter for the printout.
<a href="#">string</a>	invoiceCounterExtension	The invoice counter extension for the printout.
<a href="#">string</a>	verificationUrl	The verification url.
<a href="#">string</a>	sdcDateTime	The sdc date time.

#### Returns

**Type**                      **Description**

[FiscalResponse](#) A [FiscalResponse](#) object representing the fiscal response for croatia.

#### **InvoiceCounter(FiscalResponse)**

Returns the invoice counter.

##### **Declaration**

```
public static string InvoiceCounter(this FiscalResponse fiscalResponse)
```

##### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">FiscalResponse</a>	fiscalResponse	
--------------------------------	----------------	--

##### **Returns**

##### **Type Description**

[string](#)

#### **InvoiceCounterExtension(FiscalResponse)**

Returns the invoice counter extension.

##### **Declaration**

```
public static string InvoiceCounterExtension(this FiscalResponse fiscalResponse)
```

##### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">FiscalResponse</a>	fiscalResponse	
--------------------------------	----------------	--

##### **Returns**

##### **Type Description**

[string](#)

#### **InvoiceNr(FiscalResponse)**

Returns the sdc invoice number.

##### **Declaration**

```
public static string InvoiceNr(this FiscalResponse fiscalResponse)
```

##### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">FiscalResponse</a>	fiscalResponse	
--------------------------------	----------------	--

##### **Returns**

##### **Type Description**

[string](#)

#### **QrCode(FiscalResponse)**

Returns the qr code for the printout.

##### **Declaration**

```
public static string QrCode(this FiscalResponse fiscalResponse)
```

##### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">FiscalResponse</a>	fiscalResponse	
--------------------------------	----------------	--

##### **Returns**

##### **Type Description**

[string](#)

#### **SdcDateTime(FiscalResponse)**

Returns the sdc date time.

##### **Declaration**

```
public static string SdcDateTime(this FiscalResponse fiscalResponse)
```

##### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">FiscalResponse</a>	fiscalResponse	
--------------------------------	----------------	--

##### **Returns**

##### **Type Description**

[string](#)

#### **VerificationUrl(FiscalResponse)**

Returns the verification url.

**Declaration**

```
public static string VerificationUrl(this FiscalResponse fiscalResponse)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

**Returns****Type Description**

[string](#)

# Class SerbiaFiscalProperties

Properties for serbia.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>](#)

SerbiaFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class SerbiaFiscalProperties : FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

#### Type Description

## Type Description

[Version](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

Property Value

## Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## EntityParameters

Returns a list of optional and mandatory entity parameters.

Declaration

```
public override List<EntityParameterInfo> EntityParameters { get; }
```

Property Value

Type	Description
------	-------------

[List<EntityParameterInfo>](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.EntityParameters](#)

Remarks

Entity parameters are parameters to master data entities (distributor, organization, company, store, terminal) which are necessary for fiscal client configuration.

## FiscalCountry

The fiscal country for this property collection.

Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

Property Value

Type	Description
------	-------------

[FiscalCountry](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

Type	Description
------	-------------

Type	Description
------	-------------

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

### FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

Declaration

```
public override bool FiscalLineInterface { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.FiscalLineInterface](#)

### FiscalModuleCalculatesTaxRates

True if the tax rates for the receipt are calculated by the fiscal module; otherwise false.

Declaration

```
public override bool FiscalModuleCalculatesTaxRates { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

### GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

Property Value

### Type Description

[string](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

Remarks

Return empty string if there is not cloud

### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

Property Value

### Type Description

## Type Description

[int](#)

### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

## MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

## MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

Type	Description
------	-------------

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

**NotSupportedPaymentTypes**

Returns a list of all not supported payment types.

Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<PaymentType>](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

**PrintFiscalDocumentNumber**

Returns whether the fiscal document number (ofFiscalResponse) has to be printed out on the receipt or not.

Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

Property Value

**Type Description**  
[bool](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

**ReprintAllowedDomain**

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

**ReturnAndSaleBehavior**

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

Property Value

Type	Description
------	-------------



Type	Description
------	-------------

[ReturnAndSaleBehavior](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
------	-------------

[ReceiptDomain](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

Property Value

Type	Description
------	-------------

[ReturnReferenceBehavior](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.SurchargesPossible](#)

#### TaxFreeVat

The tax free vat class for this country.

#### Declaration

```
public override Vat TaxFreeVat { get; }
```

#### Property Value

Type	Description
<a href="#">Vat</a>	

#### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

### Declaration

```
public override bool TrainingModeAllowed { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

### Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class SerbiaFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for serbia fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
SerbiaFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Serbia](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class SerbiaFiscalisationRequiredAttribute : RequiredAttribute
```

# Class SerbiaValidation

## Inheritance

[object](#)  
SerbiaValidation

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SerbiaValidation
```

## Fields

### PaymentTypeDictionary

Paymenttype dictionary.

#### Declaration

```
public static readonly Dictionary<PaymentType, int> PaymentTypeDictionary
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;PaymentType, int&gt;</a>	

#### Remarks

Payment type none must not be mapped -> it is excluded in transfer

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Class TrustedFiscalModuleSerbia

Fiscal module implementation for Serbia.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>](#)  
[TrustedFiscalModuleSerbia](#)

### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

### Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetClosingNecessary\(out DateTime offset?, DateTime offset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

### Syntax

```
public sealed class TrustedFiscalModuleSerbia : TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>, IFiscalM
```

### Remarks

TaxCore documentation: <https://tap.sandbox.suf.purs.gov.rs/Help/view/410640437/Readme/en-US> V-SDC swagger: <https://vsdc.sandbox.suf.purs.gov.rs/swagger>

### Constructors

**TrustedFiscalModuleSerbia(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

### Declaration

```
public TrustedFiscalModuleSerbia(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, Cl
```

### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	

Type	Name	Description
<a href="#">string</a>	cloudApiSecret	

## Fields

### CERTIFICATE\_NAME

#### Declaration

```
public const string CERTIFICATE_NAME = "PosSupplierSerbia"
```

#### Field Value

#### Type Description

[string](#)

### PAC\_PARAMETER\_NAME

#### Declaration

```
public const string PAC_PARAMETER_NAME = "Pac"
```

#### Field Value

#### Type Description

[string](#)

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

#### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

#### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CancelDocument\(Document\)](#)

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

#### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

#### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

#### Returns

#### Type Description

[bool](#)

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

#### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

### CreateDocument(DocumentType)



Creates a document at the fiscal interface and returns appropriate data.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.DecommissionClient\(Document\)](#)

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

```
TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)
```

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

```
TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)
```

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### ReprintDocument(Document, string)

Stores a document reprint to the fiscal interface.

#### Declaration

```
public override FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Document</a>	document	The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.

<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .
------------------------	--------	---

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.ReprintDocument\(Document, string\)](#)

#### Remarks

Not necessary in all countries. See [MustRecordDocumentReprint](#) if it must be sent. If not necessary or if fiscal system is not responding with [FiscalResponse](#) null is returned.

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Serbia.Model

## Classes

### [InvoiceItem](#)

Item of the invoice request.

### [InvoicePayment](#)

Payment item of an invoice request.

### [InvoiceRequest](#)

Invoice request to VDC in serbia.

### [InvoiceResponse](#)

Response for an invoice request.

### [InvoiceResponseTaxItem](#)

Tax items of invoice response

### [StatusTaxCategory](#)

Tax category class to implement more different tax rates.

### [StatusTaxRate](#)

Tax rate with label.

### [StatusTaxRates](#)

Class for holding several tax rates.

### [VdcStatus](#)

Status class of vdc.

## Enums

### [SdcType](#)

The type of the used sdc.

# Class InvoiceItem

Item of the invoice request.

## Inheritance

[object](#)

InvoiceItem

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceItem
```

## Properties

### Gtin

Global Trade Item Number (GTIN) is an identifier for trade items, incorporated the ISBN, ISSN, ISMN, IAN (which includes the European Article Number and Japanese Article Number) and some Universal Product Codes, into a universal number space.

### Declaration

```
public string Gtin { get; set; }
```

### Property Value

### Type Description

[string](#)

### Labels

The array of labels. Each Label represents one of the Tax Rates applied on the invoice item. Tax Items are calculated based on totalAmount and applied labels as described in the Calculate Taxes section. This field is mandatory (i.e. the caller must submit a non-empty collection) for each item, even when the price is 0.00.

### Declaration

```
public List<string> Labels { get; set; }
```

### Property Value

#### Type Description

[List<string>](#)

### Name

Human-readable name of the product or service.

### Declaration

```
public string Name { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Quantity**

The quantity of an item, with a maximum of 3 decimals. Example: 2 (pieces), 0.100 (grams).

**Declaration**

```
public decimal Quantity { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**TotalAmount**

Gross price for the line item.

**Declaration**

```
public decimal TotalAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**UnitPrice**

Unit price of the line item. It does not take part in tax calculation.

**Declaration**

```
public decimal UnitPrice { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

# Class InvoicePayment

Payment item of an invoice request.

## Inheritance

[object](#)

InvoicePayment

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoicePayment
```

## Properties

### Amount

Amount of the payment.

### Declaration

```
public decimal Amount { get; set; }
```

### Property Value

#### Type Description

[decimal](#)

### PaymentType

Payment Type enumeration value: 0 - Other, 1 - Cash, 2 - Card, 3 - Check, 4 - Wire Transfer, 5 - Voucher, 6 - Mobile Money

### Declaration

```
public int PaymentType { get; set; }
```

### Property Value

#### Type Description

[int](#)

# Class InvoiceRequest

Invoice request to VDC in serbia.

## Inheritance

[object](#)

InvoiceRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceRequest
```

## Properties

### DateAndTimeOfIssue

Current Local Date and Time in ISO 8601 format. This is an optional element on the API level. However, tax legislation in certain jurisdictions might mandate including it on invoices - so make sure you become familiarized with the requirements in each jurisdiction.

#### Declaration

```
public string DateAndTimeOfIssue { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### InvoiceType

Invoice Type enumeration value: 0 - Normal, 1 - Offer/Proforma, 2 - Copy, 3 - Training, 4 - Advance

#### Declaration

```
public int InvoiceType { get; set; }
```

#### Property Value

#### Type Description

[int](#)

## Items

Each invoice contains at least one item in the Items collection (E-SDC should support a minimum of 250, recommended up to 500)

#### Declaration

```
public List<InvoiceItem> Items { get; set; }
```



## Property Value

Type	Description
<a href="#">List&lt;InvoiceItem&gt;</a>	

## Payment

List of payments for the invoice, where each payment defines its method and amount. Each invoice must contain at least one payment element. In cases when the cashier needs to give change to the customer, the amount submitted in the payment field must be the actual amount that stays in the cash register(not the total amount that was given by the customer to the cashier).

## Declaration

```
public List<InvoicePayment> Payment { get; set; }
```

## Property Value

Type	Description
<a href="#">List&lt;InvoicePayment&gt;</a>	

## ReferentDocumentDT

The reference document date for copies, refunds and advance receipts.

## Declaration

```
public DateTime? ReferentDocumentDT { get; set; }
```

## Property Value

Type	Description
<a href="#">DateTime?</a>	

## ReferentDocumentNumber

The reference document number for copies, refunds and advance receipts.

## Declaration

```
public string ReferentDocumentNumber { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## TransactionType

Transaction Type enumeration value: 0 - Sale, 1 - Refund

## Declaration

```
public int TransactionType { get; set; }
```

## Property Value

Type	Description
<a href="#">int</a>	

# Class InvoiceResponse

Response for an invoice request.

## Inheritance

[object](#)

InvoiceResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceResponse
```

## Properties

### InvoiceCounter

#### Declaration

```
public string InvoiceCounter { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### InvoiceCounterExtension

#### Declaration

```
public string InvoiceCounterExtension { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### InvoiceNumber

SDC Invoice Number in format requestedBy-signedBy-totalCounter

#### Declaration

```
public string InvoiceNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## SdcDateTime

### Declaration

```
public string SdcDateTime { get; set; }
```

### Property Value

### Type Description

[string](#)

## Signature

### Declaration

```
public string Signature { get; set; }
```

### Property Value

### Type Description

[string](#)

## TaxItems

### Declaration

```
public List<InvoiceResponseTaxItem> TaxItems { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;InvoiceResponseTaxItem&gt;</a>	

## VerificationQRCode

Base64 encoded byte array of GIF image created in the Create QR Code process

### Declaration

```
public string VerificationQRCode { get; set; }
```

### Property Value

### Type Description

[string](#)

## VerificationUrl

### Declaration

```
public string VerificationUrl { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class InvoiceResponseTaxItem

Tax items of invoice response

## Inheritance

[object](#)

InvoiceResponseTaxItem

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceResponseTaxItem
```

## Properties

### Amount

The tax amount.

#### Declaration

```
public decimal Amount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### Label

The label of the tax amount.

#### Declaration

```
public string Label { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Rate

The tax rate.

#### Declaration

```
public decimal Rate { get; set; }
```

#### Property Value

**Type Description**

[decimal](#)

# Enum SdcType

The type of the used sdc.

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum SdcType
```

## Fields

Name	Description
------	-------------

ESdc	
------	--

VSdc	
------	--

# Class StatusTaxCategory

Tax category class to implement more different tax rates.

## Inheritance

[object](#)

StatusTaxCategory

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class StatusTaxCategory
```

## Properties

### CategoryType

The type of the tax category.

#### Declaration

```
public int CategoryType { get; set; }
```

#### Property Value

### Type Description

[int](#)

### Name

The name of the tax category.

#### Declaration

```
public string Name { get; set; }
```

#### Property Value

### Type Description

[string](#)

### TaxRates

The available tax rates for this category.

#### Declaration

```
public List<StatusTaxRate> TaxRates { get; set; }
```

#### Property Value

**Type**      **Description**

[List<StatusTaxRate>](#)



# Class StatusTaxRate

Tax rate with label.

## Inheritance

[object](#)

StatusTaxRate

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class StatusTaxRate
```

## Properties

### Label

The label of the tax rate.

#### Declaration

```
public string Label { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Rate

The rate of the tax in percent.

#### Declaration

```
public decimal Rate { get; set; }
```

#### Property Value

### Type Description

[decimal](#)

# Class StatusTaxRates

Class for holding several tax rates.

## Inheritance

[object](#)

StatusTaxRates

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class StatusTaxRates
```

## Properties

### GroupId

The group id for the tax rates.

#### Declaration

```
public int GroupId { get; set; }
```

#### Property Value

### Type Description

[int](#)

### TaxCategories

A list of tax categories containing the tax rates.

#### Declaration

```
public List<StatusTaxCategory> TaxCategories { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;StatusTaxCategory&gt;</a>	

### ValidFrom

This item is valid from

#### Declaration

```
public DateTime ValidFrom { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTime</a>	

# Class VdcStatus

Status class of vdc.

## Inheritance

[object](#)

VdcStatus

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Serbia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class VdcStatus
```

## Remarks

Not all properties are implemented.

## Properties

### CurrentTaxRates

The current tax rates of the vdc.

### Declaration

```
public StatusTaxRates CurrentTaxRates { get; set; }
```

### Property Value

Type	Description
<a href="#">StatusTaxRates</a>	

# Namespace RetailForce.Fiscalisation.Implementation.Shared

## Classes

[TrustedFiscalModuleAdriaBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)

Base class for slovenia/croatia online fiscalisation.

## Class TrustedFiscalModuleAdriaBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>

Base class for slovenia/croatia online fiscalisation.

### Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)  
[TrustedFiscalModuleAdriaBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>](#)  
[TrustedFiscalModuleSlovenia](#)

### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

### Inherited Members

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudApiKey](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudApiSecret](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ClientConfiguration](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CertificateStore](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudArchiveEnabled\(TClientConfiguration\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetSignatureInterface\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetOrganizationSignatureVerifyInterface\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetExternalCertificateSignatureInterface\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetExternalCertificate\(string\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudMessagesQueued](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CloudMessagesStoragePeriod](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetCountryUnspecificFiscalClientStatus\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.StoreConfiguration\(TClientConfiguration\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetTerminalSignatureCertificateFilename\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetOrganizationSignatureCertificateFilename\(\)](#)  
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateDocumentImplementation\(Document, bool\)](#)  
[TrustedFiscalModuleBase.Client](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.FiscalModuleEnvironment](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[LoggingBase.Logger](#)  
[LoggingBase.LogSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Shared](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class TrustedFiscalModuleAdriaBase<TClientConfiguration, TRequiredAttribute, TCountryProperties> : TrustedFiscalModuleImplementationBase<TClientConfiguration, TRe
```

## Type Parameters

Name	Description
TClientConfiguration	
TRequiredAttribute	
TCountryProperties	

## Constructors

**TrustedFiscalModuleAdriaBase(FiscalClient, ILogger, string, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

Constructor.

## Declaration

```
protected TrustedFiscalModuleAdriaBase(FiscalClient client, ILogger logger, string logSource, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProv:
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The fiscal client for the modules.
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">string</a>	logSource	The name of the source when a log entry is written. Replace in country implementation with nameof(TrustedFiscalModule{CountryName}).
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	Action to store the configuration to the configuration file (if necessary).
<a href="#">FiscalDataStorageProvider</a>	storageProvider	The storage provider to gain access to data storages local and in the cloud.
<a href="#">CloudService</a>	cloudService	The service to connect to the retailforce cloud system. Optional.
<a href="#">string</a>	cloudApiKey	The api key for cloud authentication. Optional.
<a href="#">string</a>	cloudApiSecret	The api secret for cloud authentication. Optional.

## Remarks

If parameter `cloudService` is set by valid object then authentication will be tried with given security information.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>client</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>logger</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if <code>logSource</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if <code>storeConfiguration</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if property <a href="#">FiscalModullImplementationConfiguration</a> is null or not of type <code>TClientConfiguration</code> .
<a href="#">CloudNotConnectedException</a>	Thrown if cloud parameters are not server and cloud connection is mandatory by the client.

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

## Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

## Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

## Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

## Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CancelDocument\(Document\)](#)

### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

```
TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.CreateDocument\(DocumentType\)
```

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

```
TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DecommissionClient\(Document\)
```

#### GetFiscalResponse()

Returns empty fiscal response for the appropriate country.

#### Declaration

```
protected abstract FiscalResponse GetFiscalResponse()
```

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	

#### GetFiscalResponse(string, string, List<DocumentTaxPosition>)

Returns fiscal response for the appropriate country.

#### Declaration

```
protected abstract FiscalResponse GetFiscalResponse(string signature, string protectiveMark, List<DocumentTaxPosition> taxPositions)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	signature	
<a href="#">string</a>	protectiveMark	
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).



#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

## Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotImplementedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

## Implements

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace **RetailForce.Fiscalisation.Implementation.Slovenia**

## Classes

### [ClientConfiguration](#)

The slovenian country specific client configuration.

### [FiscalResponseSlovenia](#)

Fiscal response for slovenia.

### [SloveniaFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for slovenian fiscalisation.

### [SloveniaValidation](#)

Validation class for slovenia.

### [SlovenienFiscalProperties](#)

Properties for slovenia.

### [TrustedFiscalModuleSlovenia](#)

Module implementation for slovenia.

# Class ClientConfiguration

The slovenian country specific client configuration.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## SoftwareCompanyForeignName

The name and address of the software company (if not a slovenian pos software supplier)

### Declaration

```
public string SoftwareCompanyForeignName { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## SoftwareCompanyTaxNumber

The tax number of the software company (if slovenian pos software supplier)

### Declaration

```
public string SoftwareCompanyTaxNumber { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

### Declaration

```
public void Encrypt(Guid uniqueClientId)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

### Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

## Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.

#### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

#### Implements

[IFiscalImplementationConfiguration](#)

# Class FiscalResponseSlovenia

Fiscal response for slovenia.

## Inheritance

[object](#)

FiscalResponseSlovenia

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalResponseSlovenia
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

### GetFiscalResponseSlovenia(int, List<DocumentTaxPosition>, long, string, string, string, string, string)

Returns the fiscal response for slovenia out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseSlovenia(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, st:
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	protectiveMark	The protective mark of the response.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for slovenia.

### ProtectiveMark(FiscalResponse)

The protective mark of the response.

#### Declaration

```
public static string ProtectiveMark(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	The fiscal response containing the field.

Returns

Type	Description
<a href="#">string</a>	



# Class SloveniaFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for slovenian fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
SloveniaFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Slovenia](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class SloveniaFiscalisationRequiredAttribute : RequiredAttribute
```

# Class SloveniaValidation

Validation class for slovenia.

## Inheritance

[object](#)

SloveniaValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class SloveniaValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

# Class SlovenienFiscalProperties

Properties for slovenia.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>](#)

SlovenienFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class SlovenienFiscalProperties : FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

### Type Description

[Version](#)

#### Overrides

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## EntityParameters

Returns a list of optional and mandatory entity parameters.

### Declaration

```
public override List<EntityParameterInfo> EntityParameters { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;EntityParameterInfo&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.EntityParameters](#)

### Remarks

Entity parameters are parameters to master data entities (distributor, organization, company, store, terminal) which are necessary for fiscal client configuration.

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

Type	Description
<a href="#">FiscalCountry</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

#### Declaration

```
public override bool FiscalLineInterface { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.FiscalLineInterface](#)

#### GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

#### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### Property Value

#### Type Description

[string](#)

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### Remarks

Return empty string if there is not cloud

#### MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

#### Property Value

#### Type Description

[int](#)

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

#### MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

#### MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

#### NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

#### NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

#### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

#### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

#### NotSupportedPaymentTypes

Returns a list of all not supported payment types.

#### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

#### PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

#### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

Property Value

### Type Description

[bool](#)

Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

#### Type Description

[ReceiptDomain](#)

Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

Property Value

#### Type Description

[ReturnAndSaleBehavior](#)

Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

#### Type Description

[ReceiptDomain](#)

Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

Property Value

#### Type Description

[ReturnReferenceBehavior](#)

Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)



## SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

## SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

## SupportedPaymentTypes

Returns a list of all supported payment types.

### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

## SupportedVatDefinitions

Returns the supported vat definitions for this country.

### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

## SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

## Declaration

```
public override bool SurchargesPossible { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.SurchargesPossible](#)

## TaxFreeVat

The tax free vat class for this country.

## Declaration

```
public override Vat TaxFreeVat { get; }
```

## Property Value

## Type Description

[Vat](#)

## Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.TaxFreeVat](#)

## TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

## Declaration

```
public override bool TrainingModeAllowed { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

## Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

## Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	
------------------------------	--------	--

## Returns

Type	Description
------	-------------

<a href="#">List&lt;ValidationError&gt;</a>	
---	--

## Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class TrustedFiscalModuleSlovenia

Module implementation for slovenia.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>](#)  
[TrustedFiscalModuleSlovenia](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleSlovenia : TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>, IFiscalMod
```

## Constructors

**TrustedFiscalModuleSlovenia(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleSlovenia(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, (
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

## STORE\_BUILDINGNUMBER

Parameter name for building number of the land register.

### Declaration

```
public const string STORE_BUILDINGNUMBER = "BuildingNumber"
```

### Field Value

### Type Description

[string](#)

## STORE\_BUILDINGSECTIONNUMBER

Parameter name for building section number of the land register.

### Declaration

```
public const string STORE_BUILDINGSECTIONNUMBER = "BuildingSectionNumber"
```

### Field Value

### Type Description

[string](#)

## STORE\_CADASTRALNUMBER

Parameter name for cadastral number of the land register.

### Declaration

```
public const string STORE_CADASTRALNUMBER = "CadastralNumber"
```

### Field Value

### Type Description

[string](#)

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.FiscalClientStatus](#)

## Methods

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

### GetFiscalResponse()

returns empty fiscal response for slovenia.

### Declaration

```
protected override FiscalResponse GetFiscalResponse()
```

### Returns

Type	Description
<a href="#">FiscalResponse</a>	

### Overrides

[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetFiscalResponse\(\)](#)

### GetFiscalResponse(string, string, List<DocumentTaxPosition>)

returns empty fiscal response for slovenia.

#### Declaration

```
protected override FiscalResponse GetFiscalResponse(string signature, string protectiveMark, List<DocumentTaxPosition> taxPositions)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	signature	
<a href="#">string</a>	protectiveMark	
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	

#### Overrides

[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.GetFiscalResponse\(string, string, List<DocumentTaxPosition>\)](#)

### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleAdriaBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.InitializeClient\(Document\)](#)

### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SloveniaFiscalisationRequiredAttribute, SlovenienFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

## **Implements**

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace **RetailForce.Fiscalisation.Implementation.Slovenia.Converter**

## Classes

### [DecimalFormatConverter](#)

Json converter to export decimal with 2 decimal places (necessary for the json schema).

# Class DecimalFormatConverter

Json converter to export decimal with 2 decimal places (necessary for the json schema).

## Inheritance

[object](#)

JsonConverter

DecimalFormatConverter

## Inherited Members

JsonConverter.CanWrite

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Converter](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DecimalFormatConverter : JsonConverter
```

## Properties

### CanRead

Gets a value indicating whether this Newtonsoft.Json.JsonConverter can read JSON.

#### Declaration

```
public override bool CanRead { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	true if this Newtonsoft.Json.JsonConverter can read JSON; otherwise, false.
----------------------	---

#### Overrides

Newtonsoft.Json.JsonConverter.CanRead

## Methods

### CanConvert(Type)

Determines whether this instance can convert the specified object type.

#### Declaration

```
public override bool CanConvert(Type objectType)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Type</a>	objectType	Type of the object.
----------------------	------------	---------------------

#### Returns



Type	Description
------	-------------

[bool](#) true if this instance can convert the specified object type; otherwise, false.

#### Overrides

[JsonConverter.CanConvert\(Type\)](#)

#### ReadJson(JsonReader, Type, object, JsonSerializer)

Reads the JSON representation of the object.

#### Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonReader	reader	The Newtonsoft.Json.JsonReader to read from.
<a href="#">Type</a>	objectType	Type of the object.
<a href="#">object</a>	existingValue	The existing value of object being read.
JsonSerializer	serializer	The calling serializer.

#### Returns

Type	Description
------	-------------

[object](#) The object value.

#### Overrides

[JsonConverter.ReadJson\(JsonReader, Type, object, JsonSerializer\)](#)

#### WriteJson(JsonWriter, object, JsonSerializer)

Writes the JSON representation of the object.

#### Declaration

```
public override void WriteJson(JsonWriter writer, object value, JsonSerializer serializer)
```

#### Parameters

Type	Name	Description
JsonWriter	writer	The Newtonsoft.Json.JsonWriter to write to.
<a href="#">object</a>	value	The value.
JsonSerializer	serializer	The calling serializer.

#### Overrides

[JsonConverter.WriteJson\(JsonWriter, object, JsonSerializer\)](#)

# Namespace RetailForce.Fiscalisation.Implementation.Slovenia.Model

## Classes

### JwtHeader

The jwt header.

### MessageHeader

Header of request/response

### RequestMessage<TRequest>

The request message

### ResponseError

Possible error on invoice request (stored at invoice response).

### ResponseMessage<TResponse>

Decoder class to decode response from slovenian tax system.

# Class JwtHeader

The jwt header.

## Inheritance

[object](#)

JwtHeader

[JwtHeader](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JwtHeader
```

## Constructors

### JwtHeader()

Constructor.

### Declaration

```
public JwtHeader()
```

### JwtHeader(string, X509Certificate2)

Constructor.

### Declaration

```
public JwtHeader(string algorithm, X509Certificate2 certificate)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	algorithm	Used algorithm.

[X509Certificate2](#) certificate The certificate for the additional properties.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>algorithm</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>certificate</code> is set to null.

## Properties

### Alg

The used algorithm.

#### Declaration

```
[JsonProperty("alg")]  
public string Alg { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Issuer\_name

The issuer of the used certificate.

#### Declaration

```
[JsonProperty("issuer_name")]  
public string Issuer_name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Serial

The serial number of the used certificate.

#### Declaration

```
[JsonProperty("serial")]  
public string Serial { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Subject\_name

The subject of the used certificate.

#### Declaration

```
[JsonProperty("subject_name")]  
public string Subject_name { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class MessageHeader

Header of request/response

## Inheritance

[object](#)

MessageHeader

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class MessageHeader
```

## Properties

### DateTime

The date time of the message (not of the invoice).

#### Declaration

```
public DateTime DateTime { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### MessageID

The unique id for the invoice message.

#### Declaration

```
public string MessageID { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

# Class RequestMessage<TRequest>

The request message

## Inheritance

[object](#)

RequestMessage<TRequest>

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RequestMessage<TRequest>
```

## Type Parameters

Name	Description
------	-------------

TRequest	The type of the request object.
----------	---------------------------------

## Properties

### Header

The header for the jwt token.

### Declaration

```
[JsonIgnore]  
public JwtHeader Header { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">JwtHeader</a>	
---------------------------	--

### HeaderJson

The jwt header as json string.

### Declaration

```
[JsonIgnore]  
public string HeaderJson { get; }
```

### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

## HeaderSerialized

The jwt header as base64 url-encoded string.

### Declaration

```
[JsonIgnore]
public string HeaderSerialized { get; }
```

### Property Value

### Type Description

[string](#)

## Message

The message object.

### Declaration

```
[JsonIgnore]
public TRequest Message { get; set; }
```

### Property Value

### Type Description

TRequest

## MessageJson

The message object as json string.

### Declaration

```
[JsonIgnore]
public string MessageJson { get; }
```

### Property Value

### Type Description

[string](#)

## MessageSerialized

The message object as base64 url-encoded string.

### Declaration

```
[JsonIgnore]
public string MessageSerialized { get; }
```

### Property Value

### Type Description

[string](#)

## Signature

The signature as base64 url-encoded string.

### Declaration

```
[JsonIgnore]
public string Signature { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### token

The message information itself formatted as jwt token.

#### Declaration

```
[JsonProperty]  
public string token { get; }
```

#### Property Value

#### Type Description

[string](#)

### Methods

#### SignatureData()

The data prepared for signature process.

#### Declaration

```
public string SignatureData()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string representing the data prepared for the signature process.
------------------------	--

#### ToJson()

The complete json representation for this object (as string).

#### Declaration

```
public string ToJson()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string representing the json representation for this object (as string).
------------------------	--



# Class ResponseError

Possible error on invoice request (stored at invoice response).

## Inheritance

[object](#)

ResponseError

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ResponseError
```

## Properties

### ErrorCode

The error code of the error.

#### Declaration

```
public string ErrorCode { get; set; }
```

#### Property Value

### Type Description

[string](#)

### ErrorMessage

The error message of the error.

#### Declaration

```
public string ErrorMessage { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class ResponseMessage<TResponse>

Decoder class to decode response from slovenian tax system

## Inheritance

[object](#)

ResponseMessage<TResponse>

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ResponseMessage<TResponse>
```

## Type Parameters

Name	Description
------	-------------

TResponse	
-----------	--

## Properties

### Header

#### Declaration

```
[JsonIgnore]  
public JwtHeader Header { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">JwtHeader</a>	
---------------------------	--

### HeaderSerialized

#### Declaration

```
[JsonIgnore]  
public string HeaderSerialized { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### Message

#### Declaration

```
[JsonIgnore]  
public TResponse Message { get; }
```

## Property Value

Type	Description
TResponse	

## MessageSerialized

### Declaration

```
[JsonIgnore]  
public string MessageSerialized { get; }
```

## Property Value

### Type Description

[string](#)

### Signature

### Declaration

```
[JsonIgnore]  
public string Signature { get; }
```

## Property Value

### Type Description

[string](#)

## Token

### Declaration

```
[JsonProperty]  
public string Token { get; set; }
```

## Property Value

### Type Description

[string](#)

## **Namespace**

# **RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise**

## **Classes**

### [Address](#)

Address for a business premise.

### [BPIentifier](#)

### [BusinessPremise](#)

Class to create a business premise.

### [BusinessPremiseRequest](#)

### [BusinessPremiseRequestContainer](#)

Container for business premise message.

### [BusinessPremiseResponse](#)

The business premise request response.

### [BusinessPremiseResponseContainer](#)

Container for the business premise response.

### [JwtHeader](#)

Jwt header for requesting business premises

### [PropertyId](#)

Additional information for the business premise according to land register.

### [RealEstateBp](#)

Business premise address and land register information.

### [SoftwareSupplier](#)

The software supplier for this business premise.

## **Enums**

### [BusinessPremiseType](#)

The type of business premise is entered if the person liable issues invoices in movable business premises.

# Class Address

Address for a business premise.

## Inheritance

[object](#)

Address

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Address
```

## Properties

### City

The city for this address.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string City { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Community

The community for this address.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Community { get; set; }
```

#### Property Value

### Type Description

[string](#)

### HouseNumber

The street number of the business premise (without additional).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string HouseNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**HouseNumberAdditional**

Additional street number data.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string HouseNumberAdditional { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PostalCode**

The postal code for this address.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string PostalCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Street**

The street of the business premise (without street number)

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Street { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class BPIdentifier

## Inheritance

[object](#)  
BPIdentifier

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BPIdentifier
```

## Properties

### PremiseType

The type of the business premise if not immobile business premise.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public BusinessPremiseType? PremiseType { get; set; }
```

#### Property Value

Type	Description
<a href="#">BusinessPremiseType?</a>	

### RealEstateBP

Information to immobile business premise.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public RealEstateBp RealEstateBP { get; set; }
```

#### Property Value

Type	Description
<a href="#">RealEstateBp</a>	

# Class BusinessPremise

Class to create a business premise.

## Inheritance

[object](#)

BusinessPremise

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessPremise
```

## Properties

### BPIdentifier

Additional information (Address, ...) for the business premise.

#### Declaration

```
public BPIdentifier BPIdentifier { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">BPIdentifier</a>	
------------------------------	--

### BusinessPremiseID

The store number.

#### Declaration

```
public string BusinessPremiseID { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### SoftwareSupplier

The software supplier for this business premise.

#### Declaration

```
public SoftwareSupplier[] SoftwareSupplier { get; set; }
```

#### Property Value



Type	Description
<a href="#">SoftwareSupplier[]</a>	

### SpecialNotes

Special notes when creating business premise.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string SpecialNotes { get; set; }
```

#### Property Value

### Type Description

[string](#)

### TaxNumber

The tax number of the holder of the store.

#### Declaration

```
public int TaxNumber { get; set; }
```

#### Property Value

### Type Description

[int](#)

### ValidityDate

The opening date of the business premise.

#### Declaration

```
public string ValidityDate { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class BusinessPremiseRequest

## Inheritance

[object](#)

BusinessPremiseRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessPremiseRequest
```

## Properties

### BusinessPremise

#### Declaration

```
public BusinessPremise BusinessPremise { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">BusinessPremise</a>	
---------------------------------	--

### Header

#### Declaration

```
public MessageHeader Header { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">MessageHeader</a>	
-------------------------------	--

# Class BusinessPremiseRequestContainer

Container for business premise message.

## Inheritance

[object](#)

BusinessPremiseRequestContainer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessPremiseRequestContainer
```

## Constructors

### BusinessPremiseRequestContainer()

Constructor.

#### Declaration

```
public BusinessPremiseRequestContainer()
```

### BusinessPremiseRequestContainer(BusinessPremiseRequest)

Constructor.

#### Declaration

```
public BusinessPremiseRequestContainer(BusinessPremiseRequest request)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">BusinessPremiseRequest</a>	request	The business premise request.
--	---------	-------------------------------

## Properties

### BusinessPremiseRequest

The business premise request for this container.

#### Declaration

```
public BusinessPremiseRequest BusinessPremiseRequest { get; set; }
```

#### Property Value

Type	Description
------	-------------

**Type**

**Description**

[BusinessPremiseRequest](#)

# Class BusinessPremiseResponse

The business premise request response.

## Inheritance

[object](#)

BusinessPremiseResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessPremiseResponse
```

## Properties

### Error

Possible error object if error at business premise registering occurs.

#### Declaration

```
public ResponseError Error { get; set; }
```

#### Property Value

Type	Description
------	-------------

[ResponseError](#)

### Header

The header of the response.

#### Declaration

```
public MessageHeader Header { get; set; }
```

#### Property Value

Type	Description
------	-------------

[MessageHeader](#)

# Class BusinessPremiseResponseContainer

Container for the business premise response.

## Inheritance

[object](#)

BusinessPremiseResponseContainer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class BusinessPremiseResponseContainer
```

## Properties

### BusinessPremiseResponse

Business premise response for the appropriate request.

### Declaration

```
public BusinessPremiseResponse BusinessPremiseResponse { get; set; }
```

### Property Value

Type	Description
<a href="#">BusinessPremiseResponse</a>	

# Enum BusinessPremiseType

The type of business premise is entered if the person liable issues invoices in movable business premises.

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum BusinessPremiseType
```

## Fields

Name	Description
A	Movable object (e.g. vehicle, movable stand)
B	object located at permanent location (e.g. market stand, newsstand)
C	individual electronic device for issuing invoices or pre-numbered invoice book in cases the person liable doesn't use other business premises.

# Class JwtHeader

Jwt header for requesting business premises

## Inheritance

[object](#)  
[JwtHeader](#)  
JwtHeader

## Inherited Members

[JwtHeader.Alg](#)  
[JwtHeader.Subject\\_name](#)  
[JwtHeader.Issuer\\_name](#)  
[JwtHeader.Serial](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JwtHeader : JwtHeader
```

## Constructors

### JwtHeader()

Constructor.

### Declaration

```
public JwtHeader()
```

### JwtHeader(string, X509Certificate2)

Constructor.

### Declaration

```
public JwtHeader(string algorithm, X509Certificate2 certificate)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	algorithm	Used algorithm.

[X509Certificate2](#) certificate The certificate for the additional properties.

## Exceptions

Type	Condition
------	-----------



## Type

## Condition

[ArgumentNullException](#) Thrown if parameter `algorithm` is set to null or [Empty](#).

[ArgumentNullException](#) Thrown if parameter `certificate` is set to null.

## Properties

### cty

Additional attribute cty.

#### Declaration

```
public string cty { get; }
```

#### Property Value

#### Type Description

[string](#)

### typ

Additional attribute typ.

#### Declaration

```
public string typ { get; }
```

#### Property Value

#### Type Description

[string](#)

# Class PropertyId

Additional information for the business premise according to land register.

## Inheritance

[object](#)

PropertyId

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PropertyId
```

## Properties

### BuildingNumber

The building number of the land register.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public int BuildingNumber { get; set; }
```

#### Property Value

### Type Description

[int](#)

### BuildingSectionNumber

The building section number of the land register.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public int BuildingSectionNumber { get; set; }
```

#### Property Value

### Type Description

[int](#)

### CadastralNumber

The cadastral number of the land register.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public int CadastralNumber { get; set; }
```

Property Value

Type Description

[int](#)

# Class RealEstateBp

Business premise address and land register information.

## Inheritance

[object](#)

RealEstateBp

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class RealEstateBp
```

## Properties

### Address

Address for the business premise.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Address Address { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">Address</a>	
-------------------------	--

### PropertyID

Land register information.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public PropertyId PropertyID { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">PropertyId</a>	
----------------------------	--

# Class SoftwareSupplier

The software supplier for this business premise.

## Inheritance

[object](#)

SoftwareSupplier

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.BusinessPremise](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SoftwareSupplier
```

## Properties

### NameForeign

The name and address of the software company (if not a slovenian pos software supplier)

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string NameForeign { get; set; }
```

#### Property Value

### Type Description

[string](#)

### TaxNumber

The tax number of the software company (if slovenian pos software supplier)

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public int? TaxNumber { get; set; }
```

#### Property Value

### Type Description

[int?](#)

# Namespace RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice

## Classes

### DocumentExtensions

Extensions to the document.

### Invoice

Represents an invoice / receipt for slovenia/croatia

### InvoiceIdentifier

The identifier for the invoice (store number/terminal number/invoice number)

### InvoiceRequest

The invoice request envelope.

### InvoiceRequestContainer

The container for the invoice request.

### InvoiceResponse

The invoice response

### InvoiceResponseContainer

The container for the invoice response.

### InvoiceVat

Invoice vat object. There are possible more vat objects (if seller is changing / agency).

### ReferenceInvoice

Reference to an invoice / receipt if items are returned.

### TaxPosition

Tax position for the invoice request.

# Class DocumentExtensions

Extensions to the document.

## Inheritance

[object](#)

DocumentExtensions

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class DocumentExtensions
```

## Methods

### GetReferenceInvoice(DocumentReference)

Returns an invoice reference out of a document reference.

#### Declaration

```
public static ReferenceInvoice GetReferenceInvoice(this DocumentReference documentReference)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentReference</a>	documentReference	The document reference to convert.

#### Returns

Type	Description
<a href="#">ReferenceInvoice</a>	The converted invoice reference.

# Class Invoice

Represents an invoice / receipt for slovenia/croatia

## Inheritance

[object](#)

Invoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Invoice
```

## Properties

### InvoiceAmount

The invoice amount (net)

#### Declaration

```
[JsonConverter(typeof(DecimalFormatConverter))]  
public decimal InvoiceAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### InvoiceIdentifier

The identifier of the invoice.

#### Declaration

```
public InvoiceIdentifier InvoiceIdentifier { get; set; }
```

#### Property Value

#### Type Description

[InvoiceIdentifier](#)

### IssueDateTime

The date time when the invoice was issued.

#### Declaration

```
public DateTime IssueDateTime { get; set; }
```



## Property Value

### Type Description

[DateTime](#)

## NumberingStructure

The numbering structure (in this case always "B").

### Declaration

```
public string NumberingStructure { get; set; }
```

## Property Value

### Type Description

[string](#)

## OperatorTaxNumber

The tax number of the operator.

### Declaration

```
public int OperatorTaxNumber { get; set; }
```

## Property Value

### Type Description

[int](#)

## PaymentAmount

The payment amount.

### Declaration

```
[JsonConverter(typeof(DecimalFormatConverter))]  
public decimal PaymentAmount { get; set; }
```

## Property Value

### Type Description

[decimal](#)

## ProtectedID

The protective mark of the invoice.

### Declaration

```
public string ProtectedID { get; set; }
```

## Property Value

### Type Description

[string](#)

## ReferenceInvoice

A list of invoice references if items are returned.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<ReferenceInvoice> ReferenceInvoice { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;ReferenceInvoice&gt;</a>	

#### TaxNumber

The tax number of the invoice creator.

#### Declaration

```
public int TaxNumber { get; set; }
```

#### Property Value

#### Type Description

[int](#)

#### TaxesPerSeller

The taxes per seller.

#### Declaration

```
public List<InvoiceVat> TaxesPerSeller { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;InvoiceVat&gt;</a>	

#### Remarks

At the moment it is not supported to have other sellers.

# Class InvoiceIdentifier

The identifier for the invoice (store number/terminal number/invoice number)

## Inheritance

[object](#)

InvoiceIdentifier

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceIdentifier
```

## Properties

### BusinessPremiseID

The store number.

#### Declaration

```
public string BusinessPremiseID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ElectronicDeviceID

The terminal number.

#### Declaration

```
public string ElectronicDeviceID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### InvoiceNumber

The number of the invoice.

#### Declaration

```
public string InvoiceNumber { get; set; }
```

#### Property Value

## Type Description

[string](#)

# Class InvoiceRequest

The invoice request envelope.

## Inheritance

[object](#)

InvoiceRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceRequest
```

## Properties

### Header

The invoice request header (request message header).

#### Declaration

```
public MessageHeader Header { get; set; }
```

#### Property Value

Type	Description
<a href="#">MessageHeader</a>	

### Invoice

The invoice itself.

#### Declaration

```
public Invoice Invoice { get; set; }
```

#### Property Value

Type	Description
<a href="#">Invoice</a>	

# Class InvoiceRequestContainer

The container for the invoice request.

## Inheritance

[object](#)

InvoiceRequestContainer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceRequestContainer
```

## Constructors

### InvoiceRequestContainer(InvoiceRequest)

Constructor.

#### Declaration

```
public InvoiceRequestContainer(InvoiceRequest invoiceRequest)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">InvoiceRequest</a>	invoiceRequest	The invoice request which will be sent within this container.
--------------------------------	----------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>invoiceRequest</code> is set to null.
---------------------------------------	---

## Properties

### InvoiceRequest

The invoice request which will be sent within this container.

#### Declaration

```
public InvoiceRequest InvoiceRequest { get; set; }
```

#### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">InvoiceRequest</a>	

# Class InvoiceResponse

The invoice response

## Inheritance

[object](#)

InvoiceResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceResponse
```

## Properties

### Error

Possible error object if error at invoice registering occurs.

#### Declaration

```
public ResponseError Error { get; set; }
```

#### Property Value

Type	Description
------	-------------

[ResponseError](#)

### Header

The invoice response header.

#### Declaration

```
public MessageHeader Header { get; set; }
```

#### Property Value

Type	Description
------	-------------

[MessageHeader](#)

### UniqueInvoiceId

The unique id of the invoice

#### Declaration

```
public Guid? UniqueInvoiceId { get; set; }
```

#### Property Value



## Type Description

[Guid?](#)

# Class InvoiceResponseContainer

The container for the invoice response.

## Inheritance

[object](#)

InvoiceResponseContainer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceResponseContainer
```

## Properties

### InvoiceResponse

The invoice response.

### Declaration

```
public InvoiceResponse InvoiceResponse { get; set; }
```

### Property Value

Type	Description
<a href="#">InvoiceResponse</a>	

# Class InvoiceVat

Invoice vat object. There are possible more vat objects (if seller is changing / agency).

## Inheritance

[object](#)

InvoiceVat

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class InvoiceVat
```

## Remarks

At the moment there is no support for different sellers.

## Properties

### VAT

List of vat rates.

### Declaration

```
public List<TaxPosition> VAT { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;TaxPosition&gt;</a>	

# Class ReferenceInvoice

Reference to an invoice / receipt if items are returned.

## Inheritance

[object](#)

ReferenceInvoice

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReferenceInvoice
```

## Properties

### ReferenceInvoiceIdentifier

The identifier of the referenced invoice.

#### Declaration

```
public InvoiceIdentifier ReferenceInvoiceIdentifier { get; set; }
```

#### Property Value

Type	Description
<a href="#">InvoiceIdentifier</a>	

### ReferenceInvoiceIssueDateTime

The issue date time of the referenced invoice.

#### Declaration

```
public DateTime ReferenceInvoiceIssueDateTime { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTime</a>	

# Class TaxPosition

Tax position for the invoice request.

## Inheritance

[object](#)

TaxPosition

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Slovenia.Model.Invoice](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TaxPosition
```

## Properties

### TaxAmount

The tax amount.

#### Declaration

```
[JsonConverter(typeof(DecimalFormatConverter))]  
public decimal TaxAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### TaxRate

The tax rate in percent.

#### Declaration

```
[JsonConverter(typeof(DecimalFormatConverter))]  
public decimal TaxRate { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### TaxableAmount

The net amount (taxable amount).

#### Declaration

```
[JsonConverter(typeof(DecimalFormatConverter))]  
public decimal TaxableAmount { get; set; }
```

Property Value

**Type Description**

[decimal](#)

# Namespace RetailForce.Fiscalisation.Implementation.Spain

## Classes

### [ChainingTrail](#)

Trail to fetch last invoice date, number, series and signature.

### [ChainingTrailRecord](#)

Record for chaining trail.

### [ClientConfiguration](#)

The spain country specific client configuration.

### [FiscalResponseSpain](#)

### [NifCheck](#)

Represents a spanish nif number.

### [SpainFiscalProperties](#)

Properties for spain.

### [SpainFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for spain fiscalisation.

### [SpainValidation](#)

### [TrustedFiscalModuleSpain](#)

Trusted fiscal module implementation for spain.

# Class ChainingTrail

Trail to fetch last invoice date, number, series and signature.

## Inheritance

[object](#)

[DataStorage<ChainingTrailRecord>](#)

ChainingTrail

## Inherited Members

[DataStorage<ChainingTrailRecord>.EnsureRecordDateTimeAscending](#)

[DataStorage<ChainingTrailRecord>.Push\(ChainingTrailRecord\)](#)

[DataStorage<ChainingTrailRecord>.FetchLast\(int\)](#)

[DataStorage<ChainingTrailRecord>.FetchFirst\(\)](#)

[DataStorage<ChainingTrailRecord>.FetchByDate\(DateTime, DateTime\)](#)

[DataStorage<ChainingTrailRecord>.FetchAllAfter\(DateTime\)](#)

[DataStorage<ChainingTrailRecord>.ValidateRecord\(ChainingTrailRecord, out string\)](#)

[DataStorage<ChainingTrailRecord>.GetWriteStream\(\)](#)

[DataStorage<ChainingTrailRecord>.GetReadStream\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ChainingTrail : DataStorage<ChainingTrailRecord>
```

## Constructors

### ChainingTrail(IStreamProvider)

Constructor.

### Declaration

```
public ChainingTrail(IStreamProvider streamProvider)
```

### Parameters

Type	Name	Description
<a href="#">IStreamProvider</a>	streamProvider	The stream provider to access the data (read/write streams).

## Properties

### AlgorithmMandatory

True if the stored record has to have an algorithm section; otherwise false.

### Declaration

```
public override bool AlgorithmMandatory { get; }
```

### Property Value



## Type Description

[bool](#)

## Overrides

[DataStorage<ChainingTrailRecord>.AlgorithmMandatory](#)

## SignatureMandatory

True if the stored record has to have a signature section; otherwise false.

## Declaration

```
public override bool SignatureMandatory { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[DataStorage<ChainingTrailRecord>.SignatureMandatory](#)

## UrlEncode

True if the data in the storage file is base64 url encoded (true); otherwise it is base64 encoded (false).

## Declaration

```
public override bool UrlEncode { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[DataStorage<ChainingTrailRecord>.UrlEncode](#)

# Class ChainingTrailRecord

Record for chaining trail.

## Inheritance

[object](#)  
[StorageRecord](#)  
ChainingTrailRecord

## Implements

[IEquatable<StorageRecord>](#)

## Inherited Members

[StorageRecord.Data](#)  
[StorageRecord.RecordDateTime](#)  
[StorageRecord.Signature](#)  
[StorageRecord.Algorithm\(\)](#)  
[StorageRecord.Equals\(StorageRecord\)](#)  
[StorageRecord.ResolveDataStorageRecord<TData>\(string, bool, bool, bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ChainingTrailRecord : StorageRecord, IEquatable<StorageRecord>
```

## Constructors

### ChainingTrailRecord()

Constructor. Sets ChainingTrailRecord.RecordDateTime.

## Declaration

```
public ChainingTrailRecord()
```

## Properties

### BookDate

The book date of the last document.

## Declaration

```
public DateTime BookDate { get; set; }
```

## Property Value

Type	Description
------	-------------

[DateTime](#)

## Remarks

Mapped from field [BookDate](#).

## DocumentNumber

The document number for the last document.

### Declaration

```
public string DocumentNumber { get; set; }
```

### Property Value

### Type Description

[string](#)

### Remarks

Mapped from field [DocumentNumber](#).

## DocumentNumberSeries

The series number caption for the document number series.

### Declaration

```
public string DocumentNumberSeries { get; set; }
```

### Property Value

### Type Description

[string](#)

### Remarks

Mapped from field [DocumentNumberSeries](#).

## Methods

### GetData()

Method to get data property. Override in inherited class to get data in string notation.

### Declaration

```
protected override string GetData()
```

### Returns

### Type Description

[string](#)

### Overrides

[StorageRecord.GetData\(\)](#)

### SetData(string)

Method to set data property. Override in inherited class to parse data if necessary.

### Declaration

```
protected override void SetData(string data)
```

### Parameters

**Type Name Description**

[string](#) data The data to set.

**Overrides**

[StorageRecord.SetData\(string\)](#)

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `data` is set to null or [Empty](#).

**Implements**

[IEquatable<T>](#)

# Class ClientConfiguration

The spain country specific client configuration.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CloudArchive

True if cloud archive is active; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

#### Property Value

### Type Description

[bool](#)

### FiscalCountry

The fiscal country of the client configuration.

#### Declaration

```
public FiscalCountry FiscalCountry { get; }
```

## Property Value

Type	Description
<a href="#">FiscalCountry</a>	

## SoftwareCompanyNifCode

NIF code (tax number) of the software company created the pos software registered at ticketbai.

## Declaration

```
public string SoftwareCompanyNifCode { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## TicketBaiDevLicense

TicketBAI License for software development country.

## Declaration

```
public string TicketBaiDevLicense { get; set; }
```

## Property Value

Type	Description
<a href="#">string</a>	

## Methods

### Encrypt(Guid)

Encrypts sensitive data.

## Declaration

```
public void Encrypt(Guid uniqueClientId)
```

## Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	

### PreserveValues(IFiscalImplementationConfiguration)

If necessary this method is called to preserve configuration values when updating the configuration.

## Declaration

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

## Parameters

Type	Name	Description
<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.

## Remarks

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.
---------------------------------------	---

#### RemoveSensitiveData()

Removes sensitive data from the configuration.

#### Declaration

```
public void RemoveSensitiveData()
```

#### Remarks

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

#### Implements

[IFiscalImplementationConfiguration](#)

# Class FiscalResponseSpain

## Inheritance

[object](#)

FiscalResponseSpain

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalResponseSpain
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

### GetFiscalResponseSpain(int, List<DocumentTaxPosition>, long, string, string, string, string, string)

Returns the fiscal response for spain out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseSpain(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, string
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific)
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	qrCode	The qr code of the response.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for spain.

### QrCode(FiscalResponse)

Returns the qr code for the printout.

#### Declaration

```
public static string QrCode(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	



Returns

Type Description

[string](#)

# Class NifCheck

Represents a spanish nif number.

## Inheritance

[object](#)

NifCheck

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class NifCheck
```

## Properties

### ControlDigit

Control digit

#### Declaration

```
public string ControlDigit { get; }
```

#### Property Value

#### Type Description

[string](#)

### FirstLetter

Part of Nif: Initial letter of Nif, if any

#### Declaration

```
public string FirstLetter { get; }
```

#### Property Value

#### Type Description

[string](#)

### IntracommunityCode

Nif part: In the case of an intra-community Nif, it allows to obtain the country code.

#### Declaration

```
public string IntracommunityCode { get; }
```

#### Property Value

## Type Description

[string](#)

## NifTypeString

String representing the type of Nif checked.: - NIF : Tax Identification Number of natural person - NIE : Foreign tax identification number - CIF : Tax Identification Code (Legal entity)

### Declaration

```
public string NifTypeString { get; }
```

### Property Value

## Type Description

[string](#)

## NumberCleaned

Clean number

### Declaration

```
public int NumberCleaned { get; }
```

### Property Value

## Type Description

[int](#)

## Valid

Value that represents whether the Nif entered is correct.

### Declaration

```
public bool Valid { get; }
```

### Property Value

## Type Description

[bool](#)

## Methods

### CreateNifCheck(string)

Verification of a Spanish tax identification number

### Declaration

```
public static NifCheck CreateNifCheck(string numero)
```

### Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a> numero	Number to check
-------------------------------	-----------------

### Returns

**Type****Description**

[NifCheck](#) Instancia de [NifCheck](#) con los datos del número. Destacable la propiedad [Valid](#), que contiene la verificación

**ToString()**

Returns a string that represents the current object.

**Declaration**

```
public override string ToString()
```

**Returns****Type****Description**

[string](#) A string that represents the current object.

**Overrides**

[object.ToString\(\)](#)

# Class SpainFiscalProperties

Properties for Spain.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>](#)

SpainFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class SpainFiscalProperties : FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

## Type Description

[Version](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

## Type Description

[FiscalCountry](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

## Type Description

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.FiscalLineInterface](#)

## FiscalRegionTicketBaiProperties

### Declaration

```
public ReadOnlyDictionary<string, TicketBaiProperties> FiscalRegionTicketBaiProperties { get; }
```

### Property Value

Type	Description
<a href="#">ReadOnlyDictionary&lt;string, TicketBaiProperties&gt;</a>	

## FiscalRegions

If the country has different fiscal regions, you can query this property for the fiscal regions for this country.

### Declaration

```
public override List<string> FiscalRegions { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;string&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.FiscalRegions](#)

## GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

### Declaration

```
public override string GetCloudArchiveAccessLicense { get; }
```

### Property Value

Type	Description
<a href="#">string</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

### Remarks

Return empty string if there is not cloud

## MaximumHourIntervalForClosing

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

### Declaration

```
public override int MaximumHourIntervalForClosing { get; }
```

### Property Value

Type	Description
<a href="#">int</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

### Remarks

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

## MustRecordDocumentReprint

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

### Declaration

```
public override bool MustRecordDocumentReprint { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

## MustSendClosingPerDay

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

### Declaration

```
public override bool MustSendClosingPerDay { get; }
```

### Property Value

### Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<BusinessTransactionType>](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
------	-------------

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

### Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).



## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (ofFiscalResponse) has to be printed out on the receipt or not.

### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

## ReprintAllowedDomain

Returns the domain within reprints are allowed.

### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

## ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

## ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

#### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

#### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration

```
public override bool SurchargesPossible { get; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.SurchargesPossible](#)

#### TaxFreeVat

The tax free vat class for this country.

#### Declaration

```
public override Vat TaxFreeVat { get; }
```

#### Property Value

Type	Description
<a href="#">Vat</a>	

#### Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.TaxFreeVat](#)

#### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

#### Declaration

```
public override bool TrainingModeAllowed { get; }
```

#### Property Value

## Type Description

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

#### Declaration

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	

#### Returns

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class SpainFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for spain fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
[SpainFiscalisationRequiredAttribute](#)

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class SpainFiscalisationRequiredAttribute : RequiredAttribute
```

# Class SpainValidation

## Inheritance

[object](#)

SpainValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SpainValidation
```

## Fields

### SupportedFiscalRegions

#### Declaration

```
public static List<string> SupportedFiscalRegions
```

#### Field Value

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	
------------------------------------	--

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
------	-------------

<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	
---	--

### VatExemptionDictionary

#### Declaration

```
public static readonly Dictionary<int, CausaExencionType> VatExemptionDictionary
```

#### Field Value

Type	Description
------	-------------

<a href="#">Dictionary&lt;int, CausaExencionType&gt;</a>	
--	--

### VatNotTaxableDictionary

#### Declaration

```
public static readonly Dictionary<int, CausaNoSujetaType> VatNotTaxableDictionary
```

#### Field Value

Type	Description
<a href="#">Dictionary&lt;int, CausaNoSujetaType&gt;</a>	

#### Methods

##### GetCountryType2FromIsoAlphaCode3(string)

#### Declaration

```
public static CountryType2? GetCountryType2FromIsoAlphaCode3(string isoAlphaCode3)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	isoAlphaCode3	

#### Returns

Type	Description
<a href="#">CountryType2?</a>	

##### ValidateDocument(Document)

Validates the document

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	Document to validate

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of errors if the document isn't not valid



# Class TrustedFiscalModuleSpain

Trusted fiscal module implementation for spain.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>](#)  
[TrustedFiscalModuleSpain](#)

## Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MigrateClientFile\(string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleSpain : TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>, IFiscalModu
```

## Constructors

**TrustedFiscalModuleSpain(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleSpain(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, Clo
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

## TICKETBAI\_CONNECTIONERROR

### Declaration

```
public const string TICKETBAI_CONNECTIONERROR = "CONNECTION ERROR"
```

### Field Value

### Type Description

[string](#)

### Properties

#### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.FiscalClientStatus](#)

### Methods

#### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CancelDocument\(Document\)](#)

#### CancelErrorDocument(Guid)

Method to cancel one error document.

### Declaration

```
public override void CancelErrorDocument(Guid documentGuid)
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The guid of the document to cancel.

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CancelErrorDocument\(Guid\)](#)

### Exceptions

Type	Condition
<a href="#">NotImplementedException</a>	Thrown if the method is not implemented in the current country implementation.

#### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

### Type Description

[bool](#)

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

#### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

#### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

#### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

#### Parameters

Type	Name	Description
------	------	-------------

[DocumentType](#) documentType The type of the document for which the document should be created.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
------	------	-------------

[Document](#) endDocument A document of type [NullReceipt](#) representing the end document of the fiscalisation.

#### Returns

Type	Description
------	-------------

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.DecommissionClient\(Document\)](#)

#### GetCertHash256(X509Certificate2)

Returns certificate hash with sha256 (instead of sha1).

#### Declaration

```
public static byte[] GetCertHash256(X509Certificate2 cert)
```

#### Parameters

Type	Name	Description
------	------	-------------

[X509Certificate2](#) cert The certificate to get the hash.

#### Returns

Type	Description
------	-------------

[byte\[\]](#) The hash of the certificate with sha256 algorithm.

#### Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `cert` is set to null.

#### GetCertHash512(X509Certificate2)

Returns certificate hash with sha512 (instead of sha1).

#### Declaration

```
public static byte[] GetCertHash512(X509Certificate2 cert)
```

#### Parameters

Type	Name	Description
<a href="#">X509Certificate2</a>	cert	The certificate to get the hash.

#### Returns

Type	Description
<a href="#">byte[]</a>	The hash of the certificate with sha512 algorithm.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>cert</code> is set to null.

#### GetErrorDocuments(bool)

Returns all error documents from the system which have errors sending to authorities.

#### Declaration

```
public override List<Guid> GetErrorDocuments(bool onlyAsync)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	onlyAsync	True if only error documents should be returned which were generated in asynchronous operation.

#### Returns

Type	Description
<a href="#">List&lt;Guid&gt;</a>	A list of document guid representing all error documents from the system which have errors sending to authorities.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetErrorDocuments\(bool\)](#)

#### Remarks

This method is only implemented in countries sending data asynchronous to tax authorities (like spain, lithuania).

#### Exceptions

Type	Condition
<a href="#">NotImplementedException</a>	Thrown if the method is not implemented in the current country implementation.

#### GetTicketBaiFiles(Stream, DateTime?, DateTime?)

Inserts stored ticketBai files (sent files, answer files, error files) as zip into stream.

#### Declaration

```
public void GetTicketBaiFiles(Stream stream, DateTime? fromDate, DateTime? tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	stream	The stream where the zip data should be stored.
<a href="#">DateTime?</a>	fromDate	From date filter (including specified date). Optional.
<a href="#">DateTime?</a>	tillDate	Till date filter (including specified date). Optional.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>stream</code> is set to null.

#### GetTicketBaiFiles(Stream, string)

Inserts stored ticketBai for requested documentNumber files (sent files, answer files, error files) as zip into stream.

#### Declaration

```
public int GetTicketBaiFiles(Stream stream, string documentNumber)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	stream	The stream where the zip data should be stored.
<a href="#">string</a>	documentNumber	The document number (which was sent to ticketBai -> NumFactura). Not null and not empty.

#### Returns

Type	Description
<a href="#">int</a>	The number of files which were added to the zip file.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>stream</code> is set to null.

[ArgumentNullException](#) Thrown if parameter `documentNumber` is set to null or [Empty](#).

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	<code>startDocument</code>	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	<code>serviceUrl</code>	The service url of the other fiscal system.
<a href="#">string</a>	<code>param1</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param2</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param3</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param4</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	<code>param5</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

Type	Condition
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter importFile is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe

## Classes

[Cabecera240Type](#)

[DatosPresentacionType](#)

[DetalleEmitidaConSGCodificadoType](#)

[DetalleInmuebleType](#)

[EntidadSucedidaType](#)

[IDFacturaType](#)

[IdentificadorFacturaConSGType](#)

[LROEPJ240FacturasEmitidasConSGAltaPetition](#)

[LROEPJ240FacturasEmitidasConSGAltaRespuesta](#)

[NIFPersonaType](#)

[OtraInformacionTrascendenciaTributariaType](#)

[RegistroFacturaConSGType](#)

[SituacionRegistroType](#)

## Enums

[CapituloModelo240Enum](#)

[EstadoRegistroEnum](#)

[IDVersionEnum](#)

[Modelo240Enum](#)

[OperacionEnum](#)

[SiNoEnum](#)

[SituacionInmuebleEnum](#)

[SubcapituloModelo240Enum](#)



# Class Cabecera240Type

## Inheritance

[object](#)

Cabecera240Type

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Cabecera240Type
```

## Properties

### Capitulo

#### Declaration

```
public CapituloModelo240Enum Capitulo { get; set; }
```

#### Property Value

Type	Description
<a href="#">CapituloModelo240Enum</a>	

### Ejercicio

#### Declaration

```
public int Ejercicio { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### Modelo

#### Declaration

```
public Modelo240Enum Modelo { get; set; }
```

#### Property Value

Type	Description
<a href="#">Modelo240Enum</a>	

### ObligadoTributario

#### Declaration

```
public NIFPersonaType ObligadoTributario { get; set; }
```

#### Property Value

Type	Description
<a href="#">NIFPersonaType</a>	

#### Operacion

##### Declaration

```
public OperacionEnum Operacion { get; set; }
```

#### Property Value

Type	Description
<a href="#">OperacionEnum</a>	

#### Subcapitulo

##### Declaration

```
public SubcapituloModelo240Enum Subcapitulo { get; set; }
```

#### Property Value

Type	Description
<a href="#">SubcapituloModelo240Enum</a>	

#### SubcapituloSpecified

##### Declaration

```
public bool SubcapituloSpecified { get; set; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Version

##### Declaration

```
public IDVersionEnum Version { get; set; }
```

#### Property Value

Type	Description
<a href="#">IDVersionEnum</a>	

# Enum CapituloModelo240Enum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum CapituloModelo240Enum
```

## Fields

Name	Description
------	-------------

Item1	
-------	--

Item2	
-------	--

Item3	
-------	--

Item4	
-------	--

Item5	
-------	--

Item6	
-------	--

# Class DatosPresentacionType

## Inheritance

[object](#)

DatosPresentacionType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DatosPresentacionType
```

## Properties

### FechaPresentacion

#### Declaration

```
public string FechaPresentacion { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NIFPresentador

#### Declaration

```
public string NIFPresentador { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class DetalleEmitidaConSGCodificadoType

## Inheritance

[object](#)

DetalleEmitidaConSGCodificadoType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DetalleEmitidaConSGCodificadoType
```

## Properties

### OtraInformacionTrascendenciaTributaria

#### Declaration

```
public OtraInformacionTrascendenciaTributariaType OtraInformacionTrascendenciaTributaria { get; set; }
```

#### Property Value

Type	Description
<a href="#">OtraInformacionTrascendenciaTributariaType</a>	

### TicketBai

#### Declaration

```
public byte[] TicketBai { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

# Class DetalleInmuebleType

## Inheritance

[object](#)

DetalleInmuebleType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DetalleInmuebleType
```

## Properties

### ReferenciaCatastral

#### Declaration

```
public string ReferenciaCatastral { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SituacionInmueble

#### Declaration

```
public SituacionInmuebleEnum SituacionInmueble { get; set; }
```

#### Property Value

Type	Description
<a href="#">SituacionInmuebleEnum</a>	

# Class EntidadSucedidaType

## Inheritance

[object](#)

EntidadSucedidaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class EntidadSucedidaType
```

## Properties

### NIF

#### Declaration

```
public string NIF { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NombreRazon

#### Declaration

```
public string NombreRazon { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Enum EstadoRegistroEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum EstadoRegistroEnum
```

## Fields

Name	Description
AceptadoConErrores	
Anulado	
Correcto	
Incorrecto	



# Class IDFacturaType

## Inheritance

[object](#)

IDFacturaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IDFacturaType
```

## Properties

### FechaExpedicionFactura

#### Declaration

```
public string FechaExpedicionFactura { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NumFactura

#### Declaration

```
public string NumFactura { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### SerieFactura

#### Declaration

```
public string SerieFactura { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Enum IDVersionEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum IDVersionEnum
```

## Fields

Name	Description
------	-------------

Item10	
--------	--

# Class IdentificadorFacturaConSGType

## Inheritance

[object](#)

IdentificadorFacturaConSGType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IdentificadorFacturaConSGType
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

## Type Description

[object](#)

# Class LROEPJ240FacturasEmitidasConSGAltaPeticion

## Inheritance

[object](#)

LROEPJ240FacturasEmitidasConSGAltaPeticion

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class LROEPJ240FacturasEmitidasConSGAltaPeticion
```

## Properties

### Cabecera

#### Declaration

```
public Cabecera240Type Cabecera { get; set; }
```

#### Property Value

Type	Description
<a href="#">Cabecera240Type</a>	

### FacturasEmitidas

#### Declaration

```
public DetalleEmitidaConSGCodificadoType[] FacturasEmitidas { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleEmitidaConSGCodificadoType[]</a>	

# Class LROEPJ240FacturasEmitidasConSGAltaRespuesta

## Inheritance

[object](#)

LROEPJ240FacturasEmitidasConSGAltaRespuesta

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class LROEPJ240FacturasEmitidasConSGAltaRespuesta
```

## Properties

### Cabecera

#### Declaration

```
public Cabecera240Type Cabecera { get; set; }
```

#### Property Value

Type	Description
<a href="#">Cabecera240Type</a>	

### DatosPresentacion

#### Declaration

```
public DatosPresentacionType DatosPresentacion { get; set; }
```

#### Property Value

Type	Description
<a href="#">DatosPresentacionType</a>	

### Registros

#### Declaration

```
public RegistroFacturaConSGType[] Registros { get; set; }
```

#### Property Value

Type	Description
<a href="#">RegistroFacturaConSGType[]</a>	

# Enum Modelo240Enum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum Modelo240Enum
```

## Fields

Name	Description
------	-------------

Item240	
---------	--

# Class NIFPersonaType

## Inheritance

[object](#)

NIFPersonaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class NIFPersonaType
```

## Properties

### ApellidosNombreRazonSocial

#### Declaration

```
public string ApellidosNombreRazonSocial { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NIF

#### Declaration

```
public string NIF { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Enum OperacionEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum OperacionEnum
```

## Fields

Name	Description
------	-------------

A00	
-----	--

A01	
-----	--

AN0	
-----	--

C00	
-----	--

M00	
-----	--

M01	
-----	--



# Class OtraInformacionTrascendenciaTributariaType

## Inheritance

[object](#)

OtraInformacionTrascendenciaTributariaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class OtraInformacionTrascendenciaTributariaType
```

## Properties

### Cupon

#### Declaration

```
public SiNoEnum Cupon { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">SiNoEnum</a>	
--------------------------	--

### CuponSpecified

#### Declaration

```
public bool CuponSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### EntidadSucedida

#### Declaration

```
public EntidadSucedidaType EntidadSucedida { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">EntidadSucedidaType</a>	
-------------------------------------	--

### FacturacionDispAdicionalSegundaYQuinta

#### Declaration

```
public SiNoEnum FacturacionDispAdicionalSegundaYQuinta { get; set; }
```

**Property Value**

**Type Description**

[SiNoEnum](#)

## **FacturacionDispAdicionalSegundaYQuintaSpecified**

**Declaration**

```
public bool FacturacionDispAdicionalSegundaYQuintaSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

## **ImporteTransmisionInmueblesSujetoAIVA**

**Declaration**

```
public string ImporteTransmisionInmueblesSujetoAIVA { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## **Inmuebles**

**Declaration**

```
public DetalleInmuebleType[] Inmuebles { get; set; }
```

**Property Value**

**Type Description**

[DetalleInmuebleType\[\]](#)

## **NIFRepresentanteDeclarado**

**Declaration**

```
public string NIFRepresentanteDeclarado { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## **NumRegistroAcuerdoFacturacion**

**Declaration**

```
public string NumRegistroAcuerdoFacturacion { get; set; }
```

**Property Value**

**Type Description**

[string](#)

## ReferenciaExterna

### Declaration

```
public string ReferenciaExterna { get; set; }
```

### Property Value

### Type Description

[string](#)

# Class RegistroFacturaConSGType

## Inheritance

[object](#)

RegistroFacturaConSGType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RegistroFacturaConSGType
```

## Properties

### Identificador

#### Declaration

```
public IdentificadorFacturaConSGType Identificador { get; set; }
```

#### Property Value

Type	Description
<a href="#">IdentificadorFacturaConSGType</a>	

### SituacionRegistro

#### Declaration

```
public SituacionRegistroType SituacionRegistro { get; set; }
```

#### Property Value

Type	Description
<a href="#">SituacionRegistroType</a>	

# Enum SiNoEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum SiNoEnum
```

## Fields

### Name Description

N  
S

# Enum SituacionInmuebleEnum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum SituacionInmuebleEnum
```

## Fields

Name	Description
------	-------------

Item1	
-------	--

Item2	
-------	--

Item3	
-------	--

Item4	
-------	--

# Class SituacionRegistroType

## Inheritance

[object](#)

SituacionRegistroType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SituacionRegistroType
```

## Properties

### CodigoErrorRegistro

#### Declaration

```
public string CodigoErrorRegistro { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### DescripcionErrorRegistroES

#### Declaration

```
public string DescripcionErrorRegistroES { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### DescripcionErrorRegistroEU

#### Declaration

```
public string DescripcionErrorRegistroEU { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### EstadoRegistro

#### Declaration

```
public EstadoRegistroEnum EstadoRegistro { get; set; }
```

**Property Value**

Type	Description
<a href="#">EstadoRegistroEnum</a>	



# Enum SubcapituloModelo240Enum

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.Bizkaia.Lroe](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum SubcapituloModelo240Enum
```

## Fields

Name	Description
------	-------------

Item1	
-------	--

Item2	
-------	--

Item41	
--------	--

Item42	
--------	--

Item51	
--------	--

Item52	
--------	--

Item61	
--------	--

Item62	
--------	--

Item63	
--------	--

# Namespace RetailForce.Fiscalisation.Implementation.Spain.TicketBai

## Classes

[Cabecera](#)

[CabeceraFacturaType](#)

[CanonicalizationMethodType](#)

[DSAKeyValue Type](#)

[Datos FacturaType](#)

[Desglose FacturaType](#)

[Desglose TipoOperacionType](#)

[DetalleExentaType](#)

[DetalleIVAType](#)

[DetalleNoExentaType](#)

[DetalleNoSujeta](#)

[DigestMethodType](#)

[Emisor](#)

[EncadenamientoFacturaAnteriorType](#)

[EntidadDesarrolladoraType](#)

[Entrega](#)

[Factura](#)

[FacturaRectificativaType](#)

[HuellaTBAI](#)

[IDClave Type](#)

[IDDestinatario](#)

[IDDetalle FacturaType](#)

[IDFacturaRectificadaSustituidaType](#)

[IDOtro](#)

[ImporteRectificacionSustitutivaType](#)

[KeyInfoType](#)

[KeyValue Type](#)

[ManifestType](#)

[ObjectType](#)

[PGPDataType](#)

[PrestacionServicios](#)

[RSAKeyValue Type](#)

[Reference Type](#)

[ResultadosValidacion](#)

[RetrievalMethodType](#)

[SPKIData Type](#)

[Salida](#)

[SignatureMethodType](#)

[SignatureProperties Type](#)

[SignaturePropertyType](#)

[SignatureType](#)

[SignatureValueType](#)

[SignedInfoType](#)

[Software FacturacionType](#)

[SujetaType](#)

[Sujetos](#)

[TicketBai](#)

[TicketBaiProperties](#)

[TicketBaiResponse](#)

[TipoDesglose Type](#)

[TransformType](#)

[Transforms Type](#)

[X509Data Type](#)

[X509IssuerSerialType](#)

## **Interfaces**

[ItemBreakDown](#)

## **Enums**

[CausaExencionType](#)

[CausaNoSujetaType](#)

[Clave TipoFactura Type](#)

[Clave TipoRectificativa Type](#)

[CountryType2](#)

EmitidaPorTercerosType

IDTypeType

IDVersionTicketBaiType

IdOperacionesTrascendenciaTributariaType

ItemsChoiceType

ItemsChoiceType1

ItemsChoiceType2

SiNoType

TipoOperacionSujetaNoExentaType

# Class Cabecera

## Inheritance

[object](#)

Cabecera

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Cabecera
```

## Properties

### IDVersionTBAI

#### Declaration

```
public IDVersionTicketBaiType IDVersionTBAI { get; set; }
```

#### Property Value

Type	Description
<a href="#">IDVersionTicketBaiType</a>	

# Class CabeceraFacturaType

## Inheritance

[object](#)

CabeceraFacturaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class CabeceraFacturaType
```

## Properties

### FacturaEmitidaSustitucionSimplificada

#### Declaration

```
public SiNoType FacturaEmitidaSustitucionSimplificada { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">SiNoType</a>	
--------------------------	--

### FacturaEmitidaSustitucionSimplificadaSpecified

#### Declaration

```
public bool FacturaEmitidaSustitucionSimplificadaSpecified { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">bool</a>	
----------------------	--

### FacturaRectificativa

#### Declaration

```
public FacturaRectificativaType FacturaRectificativa { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">FacturaRectificativaType</a>	
--	--

### FacturaSimplificada

#### Declaration

```
public SiNoType FacturaSimplificada { get; set; }
```

**Property Value**

**Type Description**  
[SiNoType](#)

## FacturaSimplificadaSpecified

**Declaration**

```
public bool FacturaSimplificadaSpecified { get; set; }
```

**Property Value**

**Type Description**  
[bool](#)

## FacturasRectificadasSustituidas

**Declaration**

```
public IDFacturaRectificadaSustituidaType[] FacturasRectificadasSustituidas { get; set; }
```

**Property Value**

Type	Description
<a href="#">IDFacturaRectificadaSustituidaType[]</a>	

## FechaExpedicionFactura

**Declaration**

```
public string FechaExpedicionFactura { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

## HoraExpedicionFactura

**Declaration**

```
public string HoraExpedicionFactura { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

## NumFactura

**Declaration**

```
public string NumFactura { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

## SerieFactura

### Declaration

```
public string SerieFactura { get; set; }
```

### Property Value

### Type Description

[string](#)



# Class CanonicalizationMethodType

## Inheritance

[object](#)

CanonicalizationMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class CanonicalizationMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

# Enum CausaExencionType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum CausaExencionType
```

## Fields

Name	Description
------	-------------

E1	
----	--

E2	
----	--

E3	
----	--

E4	
----	--

E5	
----	--

E6	
----	--

# Enum CausaNoSujetaType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum CausaNoSujetaType
```

## Fields

Name	Description
------	-------------

OT	
----	--

RL	
----	--

# Enum ClaveTipoFacturaType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ClaveTipoFacturaType
```

## Fields

Name	Description
------	-------------

R1	
----	--

R2	
----	--

R3	
----	--

R4	
----	--

R5	
----	--

# Enum ClaveTipoRectificativaType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ClaveTipoRectificativaType
```

## Fields

### Name Description

I  
S

# Enum CountryType2

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum CountryType2
```

## Fields

### Name Description

AD  
AE  
AF  
AG  
AI  
AL  
AM  
AO  
AQ  
AR  
AS  
AT  
AU  
AW  
AX  
AZ  
BA  
BB  
BD  
BE  
BF  
BG  
BH  
BI  
BJ  
BL  
BM  
BN  
BO  
BQ  
BR  
BS  
BT  
BV  
BW  
BY  
BZ  
CA  
CC  
CD  
CF  
CG

**Name Description**

CH  
  
CI  
CK  
CL  
CM  
CN  
CO  
CR  
CU  
CV  
CW  
CX  
CY  
CZ  
DE  
DJ  
DK  
DM  
DO  
DZ  
EC  
EE  
EG  
EH  
ER  
ES  
ET  
FI  
FJ  
FK  
FM  
FO  
FR  
GA  
GB  
GD  
GE  
GF  
GG  
GH  
GI  
GL  
GM  
GN  
GP  
GQ  
GR  
GS  
GT  
GU  
GW  
GY

**Name Description**

HK  
HM  
HN  
HR  
HT  
HU  
ID  
IE  
IL  
IM  
IN  
IO  
IQ  
IR  
IS  
IT  
JE  
JM  
JO  
JP  
KE  
KG  
KH  
KI  
KM  
KN  
KP  
KR  
KW  
KY  
KZ  
LA  
LB  
LC  
LI  
LK  
LR  
LS  
LT  
LU  
LV  
LY  
MA  
MC  
MD  
ME  
MF  
MG  
MH  
MK  
ML  
MM  
MN



**Name Description**

MO  
MP  
MQ  
MR  
MS  
  
MT  
MU  
MV  
MW  
MX  
MY  
MZ  
NA  
NC  
NE  
NF  
NG  
NI  
NL  
NO  
NP  
NR  
NU  
NZ  
OM  
PA  
PE  
PF  
PG  
PH  
PK  
PL  
PM  
PN  
PR  
PS  
PT  
PW  
PY  
QA  
QU  
RE  
RO  
RS  
RU  
RW  
SA  
SB  
SC  
SD  
SE  
SG

**Name Description**

SH  
SI  
SJ  
SK  
SL  
SM  
SN  
SO  
SR  
SS  
ST  
SV  
SX  
SY  
SZ  
TC  
TD  
TF  
TG  
TH  
TJ  
TK  
TL  
TM  
TN  
TO  
TR  
TT  
TV  
TW  
TZ  
UA  
UG  
UM  
US  
UY  
UZ  
VA  
VC  
VE  
VG  
VI  
VN  
VU  
WF  
WS  
XB  
XG  
XN  
XU  
YE  
YT  
ZA

**Name Description**

ZM

ZW

# Class DSAKeyValue

## Inheritance

[object](#)

DSAKeyValue

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DSAKeyValue
```

## Properties

### G

#### Declaration

```
public byte[] G { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### J

#### Declaration

```
public byte[] J { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### P

#### Declaration

```
public byte[] P { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

## PgenCounter

#### Declaration

```
public byte[] PgenCounter { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Q**

**Declaration**

```
public byte[] Q { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Seed**

**Declaration**

```
public byte[] Seed { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

**Y**

**Declaration**

```
public byte[] Y { get; set; }
```

**Property Value**

**Type Description**

[byte\[\]](#)

# Class DatosFacturaType

## Inheritance

[object](#)

DatosFacturaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DatosFacturaType
```

## Properties

### BaseImponibleACoste

#### Declaration

```
public string BaseImponibleACoste { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Claves

#### Declaration

```
public IDClaveType[] Claves { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">IDClaveType[]</a>	
-------------------------------	--

### DescripcionFactura

#### Declaration

```
public string DescripcionFactura { get; set; }
```

#### Property Value

### Type Description

[string](#)

### DetallesFactura

#### Declaration

```
public IDDetalleFacturaType[] DetallesFactura { get; set; }
```

#### Property Value

Type	Description
<a href="#">IDDetalleFacturaType[]</a>	

#### FechaOperacion

##### Declaration

```
public string FechaOperacion { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### ImporteTotalFactura

##### Declaration

```
public string ImporteTotalFactura { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### RetencionSoportada

##### Declaration

```
public string RetencionSoportada { get; set; }
```

#### Property Value

##### Type Description

[string](#)

# Class DesgloseFacturaType

## Inheritance

[object](#)

DesgloseFacturaType

## Implements

[IItemBreakDown](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DesgloseFacturaType : IItemBreakDown
```

## Properties

### NoSujeta

#### Declaration

```
public DetalleNoSujeta[] NoSujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleNoSujeta[]</a>	

### Sujeta

#### Declaration

```
public SujetaType Sujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">SujetaType</a>	

## Implements

[IItemBreakDown](#)



# Class DesgloseTipoOperacionType

## Inheritance

[object](#)

DesgloseTipoOperacionType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DesgloseTipoOperacionType
```

## Properties

### Entrega

#### Declaration

```
public Entrega Entrega { get; set; }
```

#### Property Value

### Type Description

[Entrega](#)

### PrestacionServicios

#### Declaration

```
public PrestacionServicios PrestacionServicios { get; set; }
```

#### Property Value

Type	Description
------	-------------

[PrestacionServicios](#)

# Class DetalleExentaType

## Inheritance

[object](#)

DetalleExentaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DetalleExentaType
```

## Properties

### BaseImponible

#### Declaration

```
public string BaseImponible { get; set; }
```

#### Property Value

### Type Description

[string](#)

### CausaExencion

#### Declaration

```
public CausaExencionType CausaExencion { get; set; }
```

#### Property Value

Type	Description
<a href="#">CausaExencionType</a>	

# Class DetalleIVAType

## Inheritance

[object](#)  
DetalleIVAType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DetalleIVAType
```

## Properties

### BaseImponible

#### Declaration

```
public string BaseImponible { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CuotaImpuesto

#### Declaration

```
public string CuotaImpuesto { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CuotaRecargoEquivalencia

#### Declaration

```
public string CuotaRecargoEquivalencia { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### OperacionEnRecargoDeEquivalenciaORegimenSimplificado

#### Declaration

```
public SiNoType OperacionEnRecargoDeEquivalenciaORegimenSimplificado { get; set; }
```

**Property Value**

**Type Description**  
[SiNoType](#)

## **OperacionEnRecargoDeEquivalenciaORegimenSimplificadoSpecified**

**Declaration**

```
public bool OperacionEnRecargoDeEquivalenciaORegimenSimplificadoSpecified { get; set; }
```

**Property Value**

**Type Description**  
[bool](#)

## **TipoImpositivo**

**Declaration**

```
public string TipoImpositivo { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

## **TipoRecargoEquivalencia**

**Declaration**

```
public string TipoRecargoEquivalencia { get; set; }
```

**Property Value**

**Type Description**  
[string](#)

# Class DetalleNoExentaType

## Inheritance

[object](#)

DetalleNoExentaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DetalleNoExentaType
```

## Properties

### DesgloseIVA

#### Declaration

```
public DetalleIVAType[] DesgloseIVA { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleIVAType[]</a>	

### TipoNoExenta

#### Declaration

```
public TipoOperacionSujetaNoExentaType TipoNoExenta { get; set; }
```

#### Property Value

Type	Description
<a href="#">TipoOperacionSujetaNoExentaType</a>	

# Class DetalleNoSujeta

## Inheritance

[object](#)

DetalleNoSujeta

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DetalleNoSujeta
```

## Properties

### Causa

#### Declaration

```
public CausaNoSujetaType Causa { get; set; }
```

#### Property Value

Type	Description
<a href="#">CausaNoSujetaType</a>	

### Importe

#### Declaration

```
public string Importe { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class DigestMethodType

## Inheritance

[object](#)

DigestMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DigestMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlNode[]</a>	
---------------------------	--

# Class Emisor

## Inheritance

[object](#)

Emisor

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Emisor
```

## Properties

### ApellidosNombreRazonSocial

#### Declaration

```
public string ApellidosNombreRazonSocial { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NIF

#### Declaration

```
public string NIF { get; set; }
```

#### Property Value

#### Type Description

[string](#)



# Enum EmitidaPorTercerosType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum EmitidaPorTercerosType
```

## Fields

Name	Description
------	-------------

D	
N	
T	

# Class EncadenamientoFacturaAnteriorType

## Inheritance

[object](#)

EncadenamientoFacturaAnteriorType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class EncadenamientoFacturaAnteriorType
```

## Properties

### FechaExpedicionFacturaAnterior

#### Declaration

```
public string FechaExpedicionFacturaAnterior { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NumFacturaAnterior

#### Declaration

```
public string NumFacturaAnterior { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### SerieFacturaAnterior

#### Declaration

```
public string SerieFacturaAnterior { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Signature Value FirmaFacturaAnterior

#### Declaration

```
public string SignatureValueFirmaFacturaAnterior { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class EntidadDesarrolladoraType

## Inheritance

[object](#)

EntidadDesarrolladoraType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class EntidadDesarrolladoraType
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

## Type Description

[object](#)

# Class Entrega

## Inheritance

[object](#)

Entrega

## Implements

[IItemBreakDown](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Entrega : IItemBreakDown
```

## Properties

### NoSujeta

#### Declaration

```
public DetalleNoSujeta[] NoSujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleNoSujeta[]</a>	

### Sujeta

#### Declaration

```
public SujetaType Sujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">SujetaType</a>	

## Implements

[IItemBreakDown](#)

# Class Factura

## Inheritance

[object](#)

Factura

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Factura
```

## Properties

### CabeceraFactura

#### Declaration

```
public CabeceraFacturaType CabeceraFactura { get; set; }
```

#### Property Value

Type	Description
<a href="#">CabeceraFacturaType</a>	

### DatosFactura

#### Declaration

```
public DatosFacturaType DatosFactura { get; set; }
```

#### Property Value

Type	Description
<a href="#">DatosFacturaType</a>	

### TipoDesglose

#### Declaration

```
public TipoDesgloseType TipoDesglose { get; set; }
```

#### Property Value

Type	Description
<a href="#">TipoDesgloseType</a>	

# Class FacturaRectificativaType

## Inheritance

[object](#)

FacturaRectificativaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class FacturaRectificativaType
```

## Properties

### Codigo

#### Declaration

```
public ClaveTipoFacturaType Codigo { get; set; }
```

#### Property Value

Type	Description
<a href="#">ClaveTipoFacturaType</a>	

### ImporteRectificacionSustitutiva

#### Declaration

```
public ImporteRectificacionSustitutivaType ImporteRectificacionSustitutiva { get; set; }
```

#### Property Value

Type	Description
<a href="#">ImporteRectificacionSustitutivaType</a>	

### Tipo

#### Declaration

```
public ClaveTipoRectificativaType Tipo { get; set; }
```

#### Property Value

Type	Description
<a href="#">ClaveTipoRectificativaType</a>	

# Class HuellaTBAI

## Inheritance

[object](#)

HuellaTBAI

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class HuellaTBAI
```

## Properties

### EncadenamientoFacturaAnterior

#### Declaration

```
public EncadenamientoFacturaAnteriorType EncadenamientoFacturaAnterior { get; set; }
```

#### Property Value

Type	Description
<a href="#">EncadenamientoFacturaAnteriorType</a>	

### NumSerieDispositivo

#### Declaration

```
public string NumSerieDispositivo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Software

#### Declaration

```
public SoftwareFacturacionType Software { get; set; }
```

#### Property Value

Type	Description
<a href="#">SoftwareFacturacionType</a>	



# Class IDClaveType

## Inheritance

[object](#)  
IDClaveType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IDClaveType
```

## Properties

### ClaveRegimenIvaOpTrascendencia

#### Declaration

```
public IdOperacionesTrascendenciaTributariaType ClaveRegimenIvaOpTrascendencia { get; set; }
```

#### Property Value

Type	Description
<a href="#">IdOperacionesTrascendenciaTributariaType</a>	

# Class IDDestinatario

## Inheritance

[object](#)  
IDDestinatario

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IDDestinatario
```

## Properties

### ApellidosNombreRazonSocial

#### Declaration

```
public string ApellidosNombreRazonSocial { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CodigoPostal

#### Declaration

```
public string CodigoPostal { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Direccion

#### Declaration

```
public string Direccion { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Item

#### Declaration

```
public object Item { get; set; }
```

**Property Value**

**Type Description**

[object](#)

# Class IDDetalleFacturaType

## Inheritance

[object](#)

IDDetalleFacturaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IDDetalleFacturaType
```

## Properties

### Cantidad

#### Declaration

```
public string Cantidad { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### DescripcionDetalle

#### Declaration

```
public string DescripcionDetalle { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Descuento

#### Declaration

```
public string Descuento { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ImporteTotal

#### Declaration

```
public string ImporteTotal { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ImporteUnitario**

**Declaration**

```
public string ImporteUnitario { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class IDFacturaRectificadaSustituidaType

## Inheritance

[object](#)

IDFacturaRectificadaSustituidaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IDFacturaRectificadaSustituidaType
```

## Properties

### FechaExpedicionFactura

#### Declaration

```
public string FechaExpedicionFactura { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### NumFactura

#### Declaration

```
public string NumFactura { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### SerieFactura

#### Declaration

```
public string SerieFactura { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class IDOtro

## Inheritance

[object](#)

IDOtro

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class IDOtro
```

## Properties

### CodigoPais

#### Declaration

```
public CountryType2 CodigoPais { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">CountryType2</a>	
------------------------------	--

### CodigoPaisSpecified

#### Declaration

```
public bool CodigoPaisSpecified { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### ID

#### Declaration

```
public string ID { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### IDType

#### Declaration

```
public IDTypeType IDType { get; set; }
```

**Property Value**

Type	Description
<a href="#">IDTypeType</a>	



# Enum IDTypeType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum IDTypeType
```

## Fields

Name	Description
------	-------------

Item02	
--------	--

Item03	
--------	--

Item04	
--------	--

Item05	
--------	--

Item06	
--------	--

# Enum IDVersionTicketBaiType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum IDVersionTicketBaiType
```

## Fields

Name	Description
------	-------------

Item12	
--------	--

# Interface IItemBreakDown

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IItemBreakDown
```

## Properties

### NoSujeta

#### Declaration

```
DetalleNoSujeta[] NoSujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleNoSujeta[]</a>	

### Sujeta

#### Declaration

```
SujetaType Sujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">SujetaType</a>	

# Enum IdOperacionesTrascendenciaTributariaType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum IdOperacionesTrascendenciaTributariaType
```

## Fields

Name	Description
------	-------------

Item01	
Item02	
Item03	
Item04	
Item05	
Item06	
Item07	
Item08	
Item09	
Item10	
Item11	
Item12	
Item13	
Item14	
Item15	
Item17	
Item19	
Item51	
Item52	
Item53	

# Class ImporteRectificacionSustitutivaType

## Inheritance

[object](#)

ImporteRectificacionSustitutivaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ImporteRectificacionSustitutivaType
```

## Properties

### BaseRectificada

#### Declaration

```
public string BaseRectificada { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CuotaRecargoRectificada

#### Declaration

```
public string CuotaRecargoRectificada { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CuotaRectificada

#### Declaration

```
public string CuotaRectificada { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Enum ItemsChoiceType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType
```

## Fields

Name	Description
Item	
X509CRL	
X509Certificate	
X509IssuerSerial	
X509SKI	
X509SubjectName	

# Enum ItemsChoiceType1

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType1
```

## Fields

Name	Description
Item	
PGPKeyID	
PGPKeyPacket	

# Enum ItemsChoiceType2

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum ItemsChoiceType2
```

## Fields

Name	Description
Item	
KeyName	
KeyValue	
MgmtData	
PGPData	
RetrievalMethod	
SPKIData	
X509Data	



# Class KeyInfoType

## Inheritance

[object](#)  
KeyInfoType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class KeyInfoType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType2[] ItemsElementName { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">ItemsChoiceType2[]</a>	
------------------------------------	--

## Text

### Declaration

```
public string[] Text { get; set; }
```

**Property Value**

**Type Description**

[string\[\]](#)

# Class KeyValue Type

## Inheritance

[object](#)  
KeyValue Type

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class KeyValue Type
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

### Type Description

[object](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

# Class ManifestType

## Inheritance

[object](#)

ManifestType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ManifestType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

## Reference

#### Declaration

```
public ReferenceType[] Reference { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReferenceType[]</a>	

# Class ObjectType

## Inheritance

[object](#)

ObjectType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ObjectType
```

## Properties

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

#### Type Description

[XmlNode\[\]](#)

### Encoding

#### Declaration

```
public string Encoding { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### MimeType

#### Declaration

```
public string MimeType { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class PGPDDataType

## Inheritance

[object](#)  
PGPDDataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PGPDDataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">object[]</a>	
--------------------------	--

### ItemsElementName

#### Declaration

```
public ItemsChoiceType1[] ItemsElementName { get; set; }
```

#### Property Value

Type	Description
<a href="#">ItemsChoiceType1[]</a>	

# Class PrestacionServicios

## Inheritance

[object](#)

PrestacionServicios

## Implements

[IItemBreakDown](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class PrestacionServicios : IItemBreakDown
```

## Properties

### NoSujeta

#### Declaration

```
public DetalleNoSujeta[] NoSujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleNoSujeta[]</a>	

### Sujeta

#### Declaration

```
public SujetaType Sujeta { get; set; }
```

#### Property Value

Type	Description
<a href="#">SujetaType</a>	

## Implements

[IItemBreakDown](#)



# Class RSAKeyValueType

## Inheritance

[object](#)

RSAKeyValueType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RSAKeyValueType
```

## Properties

### Exponent

#### Declaration

```
public byte[] Exponent { get; set; }
```

#### Property Value

#### Type Description

[byte](#)[]

### Modulus

#### Declaration

```
public byte[] Modulus { get; set; }
```

#### Property Value

#### Type Description

[byte](#)[]

# Class ReferenceType

## Inheritance

[object](#)

ReferenceType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ReferenceType
```

## Properties

### DigestMethod

#### Declaration

```
public DigestMethodType DigestMethod { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DigestMethodType</a>	
----------------------------------	--

### DigestValue

#### Declaration

```
public byte[] DigestValue { get; set; }
```

#### Property Value

#### Type Description

[byte\[\]](#)

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Transforms

### Declaration

```
public TransformType[] Transforms { get; set; }
```

**Property Value**

Type	Description
<a href="#">TransformType[]</a>	

**Type**

**Declaration**

```
public string Type { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**URI**

**Declaration**

```
public string URI { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class ResultadosValidacion

## Inheritance

[object](#)

ResultadosValidacion

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class ResultadosValidacion
```

## Properties

### Azalpena

#### Declaration

```
public string Azalpena { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Codigo

#### Declaration

```
public string Codigo { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Descripcion

#### Declaration

```
public string Descripcion { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class RetrievalMethodType

## Inheritance

[object](#)

RetrievalMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class RetrievalMethodType
```

## Properties

### Transforms

#### Declaration

```
public TransformType[] Transforms { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	

### Type

#### Declaration

```
public string Type { get; set; }
```

#### Property Value

### Type Description

[string](#)

### URI

#### Declaration

```
public string URI { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class SPKIDataType

## Inheritance

[object](#)  
SPKIDataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SPKIDataType
```

## Properties

### Any

#### Declaration

```
public XmlElement Any { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlElement</a>	
----------------------------	--

### SPKISexp

#### Declaration

```
public byte[][] SPKISexp { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">byte[][]</a>	
--------------------------	--

# Class Salida

## Inheritance

[object](#)

Salida

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Salida
```

## Properties

### Azalpena

#### Declaration

```
public string Azalpena { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### CSV

#### Declaration

```
public string CSV { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Descripcion

#### Declaration

```
public string Descripcion { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Estado

#### Declaration

```
public string Estado { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**FechaRecepcion**

**Declaration**

```
public string FechaRecepcion { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**IdentificadorTBAI**

**Declaration**

```
public string IdentificadorTBAI { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ResultadosValidacion**

**Declaration**

```
public ResultadosValidacion[] ResultadosValidacion { get; set; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">ResultadosValidacion[]</a>	
--	--



# Enum SiNoType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum SiNoType
```

## Fields

### Name Description

N

S

# Class SignatureMethodType

## Inheritance

[object](#)

SignatureMethodType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureMethodType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Any

#### Declaration

```
public XmlNode[] Any { get; set; }
```

#### Property Value

### Type Description

[XmlNode\[\]](#)

### HMACOutputLength

#### Declaration

```
public string HMACOutputLength { get; set; }
```

#### Property Value

### Type Description

[string](#)

# Class SignaturePropertiesType

## Inheritance

[object](#)

SignaturePropertiesType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignaturePropertiesType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SignatureProperty

#### Declaration

```
public SignaturePropertyType[] SignatureProperty { get; set; }
```

#### Property Value

Type	Description
<a href="#">SignaturePropertyType[]</a>	

# Class SignaturePropertyType

## Inheritance

[object](#)

SignaturePropertyType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignaturePropertyType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public XmlElement[] Items { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">XmlElement[]</a>	
------------------------------	--

### Target

#### Declaration

```
public string Target { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

**Property Value**

**Type Description**

[string\[\]](#)

# Class SignatureType

## Inheritance

[object](#)

SignatureType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### KeyInfo

#### Declaration

```
public KeyInfoType KeyInfo { get; set; }
```

#### Property Value

Type	Description
------	-------------

[KeyInfoType](#)

### Object

#### Declaration

```
public ObjectType[] Object { get; set; }
```

#### Property Value

Type	Description
------	-------------

[ObjectType\[\]](#)

### SignatureValue

#### Declaration

```
public SignatureValueType SignatureValue { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignatureValueType</a>	

**SignedInfo**

**Declaration**

```
public SignedInfoType SignedInfo { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignedInfoType</a>	

# Class SignatureValueType

## Inheritance

[object](#)

SignatureValueType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignatureValueType
```

## Properties

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Value

#### Declaration

```
public byte[] Value { get; set; }
```

#### Property Value

### Type Description

[byte\[\]](#)



# Class SignedInfoType

## Inheritance

[object](#)

SignedInfoType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SignedInfoType
```

## Properties

### CanonicalizationMethod

#### Declaration

```
public CanonicalizationMethodType CanonicalizationMethod { get; set; }
```

#### Property Value

Type	Description
<a href="#">CanonicalizationMethodType</a>	

### Id

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Reference

#### Declaration

```
public ReferenceType[] Reference { get; set; }
```

#### Property Value

Type	Description
<a href="#">ReferenceType[]</a>	

### SignatureMethod

#### Declaration

```
public SignatureMethodType SignatureMethod { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignatureMethodType</a>	

# Class SoftwareFacturacionType

## Inheritance

[object](#)

SoftwareFacturacionType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SoftwareFacturacionType
```

## Properties

### EntidadDesarrolladora

#### Declaration

```
public EntidadDesarrolladoraType EntidadDesarrolladora { get; set; }
```

#### Property Value

Type	Description
<a href="#">EntidadDesarrolladoraType</a>	

### LicenciaTBAI

#### Declaration

```
public string LicenciaTBAI { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Nombre

#### Declaration

```
public string Nombre { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### Version

#### Declaration

```
public string Version { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class SujetaType

## Inheritance

[object](#)

SujetaType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class SujetaType
```

## Properties

### Exenta

#### Declaration

```
public DetalleExentaType[] Exenta { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleExentaType[]</a>	

### NoExenta

#### Declaration

```
public DetalleNoExentaType[] NoExenta { get; set; }
```

#### Property Value

Type	Description
<a href="#">DetalleNoExentaType[]</a>	

# Class Sujetos

## Inheritance

[object](#)  
Sujetos

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Sujetos
```

## Properties

### Destinatarios

#### Declaration

```
public IDDestinatario[] Destinatarios { get; set; }
```

#### Property Value

Type	Description
<a href="#">IDDestinatario[]</a>	

### Emisor

#### Declaration

```
public Emisor Emisor { get; set; }
```

#### Property Value

Type	Description
<a href="#">Emisor</a>	

### EmitidaPorTercerosODestinatario

#### Declaration

```
public EmitidaPorTercerosType EmitidaPorTercerosODestinatario { get; set; }
```

#### Property Value

Type	Description
<a href="#">EmitidaPorTercerosType</a>	

### EmitidaPorTercerosODestinatarioSpecified

#### Declaration

```
public bool EmitidaPorTercerosODestinatarioSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**VariosDestinatarios**

**Declaration**

```
public SiNoType VariosDestinatarios { get; set; }
```

**Property Value**

**Type Description**

[SiNoType](#)

**VariosDestinatariosSpecified**

**Declaration**

```
public bool VariosDestinatariosSpecified { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

# Class TicketBai

## Inheritance

[object](#)

TicketBai

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TicketBai
```

## Properties

### Cabecera

#### Declaration

```
public Cabecera Cabecera { get; set; }
```

#### Property Value

#### Type Description

[Cabecera](#)

### Factura

#### Declaration

```
public Factura Factura { get; set; }
```

#### Property Value

#### Type Description

[Factura](#)

### HuellaTBAI

#### Declaration

```
public HuellaTBAI HuellaTBAI { get; set; }
```

#### Property Value

#### Type Description

[HuellaTBAI](#)

## Signature

### Declaration



```
public SignatureType Signature { get; set; }
```

**Property Value**

Type	Description
<a href="#">SignatureType</a>	

**Sujetos**

**Declaration**

```
public Sujetos Sujetos { get; set; }
```

**Property Value**

Type	Description
<a href="#">Sujetos</a>	

# Class TicketBaiProperties

## Inheritance

[object](#)

TicketBaiProperties

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TicketBaiProperties
```

## Properties

### CancelInvoiceUrl

#### Declaration

```
public UrlStore CancelInvoiceUrl { get; set; }
```

#### Property Value

##### Type Description

[UrlStore](#)

### DeveloperTestLicense

#### Declaration

```
public string DeveloperTestLicense { get; set; }
```

#### Property Value

##### Type Description

[string](#)

### EmisorNIFTestClient

#### Declaration

```
public string EmisorNIFTestClient { get; set; }
```

#### Property Value

##### Type Description

[string](#)

### InvoiceUrl

#### Declaration

```
public UrlStore InvoiceUrl { get; set; }
```

**Property Value**

**Type Description**

[UrlStore](#)

**PolicyId**

**Declaration**

```
public string PolicyId { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**PolicyIdHash**

**Declaration**

```
public string PolicyIdHash { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Production**

**Declaration**

```
public bool Production { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**QrCodeUrl**

**Declaration**

```
public UrlStore QrCodeUrl { get; set; }
```

**Property Value**

**Type Description**

[UrlStore](#)

**RazonSocialTestClient**

**Declaration**

```
public string RazonSocialTestClient { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class TicketBaiResponse

## Inheritance

[object](#)

TicketBaiResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TicketBaiResponse
```

## Properties

### Salida

#### Declaration

```
public Salida Salida { get; set; }
```

#### Property Value

## Type Description

[Salida](#)

# Class TipoDesgloseType

## Inheritance

[object](#)  
TipoDesgloseType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TipoDesgloseType
```

## Properties

### Item

#### Declaration

```
public object Item { get; set; }
```

#### Property Value

## Type Description

[object](#)

# Enum TipoOperacionSujetaNoExentaType

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public enum TipoOperacionSujetaNoExentaType
```

## Fields

Name	Description
------	-------------

S1	
----	--

S2	
----	--

# Class TransformType

## Inheritance

[object](#)

TransformType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TransformType
```

## Properties

### Algorithm

#### Declaration

```
public string Algorithm { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

### Type Description

[object\[\]](#)

### Text

#### Declaration

```
public string[] Text { get; set; }
```

#### Property Value

### Type Description

[string\[\]](#)

# Class TransformsType

## Inheritance

[object](#)

TransformsType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class TransformsType
```

## Properties

### Transform

#### Declaration

```
public TransformType[] Transform { get; set; }
```

#### Property Value

Type	Description
<a href="#">TransformType[]</a>	



# Class X509DataType

## Inheritance

[object](#)  
X509DataType

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class X509DataType
```

## Properties

### Items

#### Declaration

```
public object[] Items { get; set; }
```

#### Property Value

##### Type Description

[object\[\]](#)

### ItemsElementName

#### Declaration

```
public ItemsChoiceType[] ItemsElementName { get; set; }
```

#### Property Value

##### Type Description

[ItemsChoiceType\[\]](#)

# Class X509IssuerSerialType

## Inheritance

[object](#)

X509IssuerSerialType

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class X509IssuerSerialType
```

## Properties

### X509IssuerName

#### Declaration

```
public string X509IssuerName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### X509SerialNumber

#### Declaration

```
public string X509SerialNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Namespace RetailForce.Fiscalisation.Implementation.Spain.TicketBai.Bizkaia

## Classes

[LroeBizkaia](#)

[LroeBizkaiaDrs](#)

[LroeBizkaiaInte](#)

# Class LroeBizkaia

## Inheritance

[object](#)

LroeBizkaia

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai.Bizkaia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LroeBizkaia
```

## Properties

### apa

#### Declaration

```
public string apa { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### con

#### Declaration

```
public string con { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### drs

#### Declaration

```
public LroeBizkaiaDrs drs { get; set; }
```

#### Property Value

Type	Description
------	-------------

[LroeBizkaiaDrs](#)

### inte

#### Declaration

```
public LroeBizkaiaInte inte { get; set; }
```

**Property Value**

Type	Description
<a href="#">LroeBizkaiaInte</a>	

# Class LroeBizkaiaDrs

## Inheritance

[object](#)

LroeBizkaiaDrs

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai.Bizkaia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LroeBizkaiaDrs
```

## Properties

### ejer

#### Declaration

```
public string ejer { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### mode

#### Declaration

```
public string mode { get; set; }
```

#### Property Value

#### Type Description

[string](#)

# Class LroeBizkaiaInte

## Inheritance

[object](#)

LroeBizkaiaInte

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Spain.TicketBai.Bizkaia](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LroeBizkaiaInte
```

## Properties

### ap1

#### Declaration

```
public string ap1 { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### ap2

#### Declaration

```
public string ap2 { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### nif

#### Declaration

```
public string nif { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### nrs

#### Declaration

```
public string nrs { get; set; }
```

**Property Value**

**Type Description**

[string](#)



# Namespace RetailForce.Fiscalisation.Implementation.Sweden

## Classes

### [ClientConfiguration](#)

The swedish country specific configuration for the client.

### [ControlUnitConfiguration](#)

Class for central control unit configuration.

### [FiscalResponseSweden](#)

### [NumberTrail](#)

Storage for fiscal document number.

### [SwedenFiscalProperties](#)

Properties for sweden.

### [SwedishFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for swedish fiscalisation.

### [SwedishValidation](#)

### [TrustedFiscalModuleSweden](#)

Implementation for fiscalisation of Sweden.

## Enums

### [ControlUnitDriver](#)

The central control unit driver type.

# Class ClientConfiguration

The swedish country specific configuration for the client.

## Inheritance

[object](#)

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

ClientConfiguration

## Implements

[IFiscalImplementationConfiguration](#)

## Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientConfiguration : ConfigurationValidationBase, IFiscalImplementationConfiguration
```

## Properties

### CentralControlUnit

Configuration for central control unit.

#### Declaration

```
public ControlUnitConfiguration CentralControlUnit { get; set; }
```

#### Property Value

Type	Description
------	-------------

[ControlUnitConfiguration](#)

### CloudArchive

True if data should be archived to the cloud; otherwise false.

#### Declaration

```
public bool CloudArchive { get; set; }
```

**Property Value**

## **Type Description**

[bool](#)

## **FiscalCountry**

The fiscal country of the client configuration.

### **Declaration**

```
public FiscalCountry FiscalCountry { get; }
```

**Property Value**

Type	Description
------	-------------

<a href="#">FiscalCountry</a>	
-------------------------------	--

## **Methods**

### **Encrypt(Guid)**

Encrypts sensitive data.

### **Declaration**

```
public void Encrypt(Guid uniqueClientId)
```

### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	uniqueClientId	
----------------------	----------------	--

### **PreserveValues(IFiscalImplementationConfiguration)**

If necessary this method is called to preserve configuration values when updating the configuration.

### **Declaration**

```
public void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">IFiscalImplementationConfiguration</a>	oldConfiguration	The old configuration holding the values which should be preserved.
--	------------------	---

### **Remarks**

Implement this method if you want to preserve data in the configuration which would be updated by the cloud (serialno of security devices, aesKey in austria, etc.)

### **Exceptions**

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>oldConfiguration</code> is set to null.
---------------------------------------	---

### **RemoveSensitiveData()**

Removes sensitive data from the configuration.

**Declaration**

```
public void RemoveSensitiveData()
```

**Remarks**

Used for sending data from cloud to client to remove sensitive data from configuration which is not needed by the client.

**Implements**

[IFiscalImplementationConfiguration](#)

# Class ControlUnitConfiguration

Class for central control unit configuration.

## Inheritance

[object](#)

ControlUnitConfiguration

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ControlUnitConfiguration
```

## Properties

### ControlUnitDriver

The central control unit driver.

#### Declaration

```
public ControlUnitDriver ControlUnitDriver { get; set; }
```

#### Property Value

Type	Description
<a href="#">ControlUnitDriver</a>	

### ControlUnitParameter

The parameters for the central control unit driver.

#### Declaration

```
public virtual List<Parameter> ControlUnitParameter { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;Parameter&gt;</a>	

# Enum ControlUnitDriver

The central control unit driver type.

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum ControlUnitDriver
```

## Fields

Name	Description
AxenaCentralControlUnit	

# Class FiscalResponseSweden

## Inheritance

[object](#)  
FiscalResponseSweden

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class FiscalResponseSweden
```

## Methods

### CheckCountryAdditionalFields(ReadOnlyDictionary<string, object>)

Checks if all country specific fields are set in the dictionary.

#### Declaration

```
public static void CheckCountryAdditionalFields(ReadOnlyDictionary<string, object> additionalFields)
```

#### Parameters

Type	Name	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	additionalFields	The dictionary of all country specific fields.

#### Exceptions

Type	Condition
<a href="#">MissingMemberException</a>	Thrown if a country specific field is missing.

### ControlUnitSerial(FiscalResponse)

Returns the key version of the signature.

#### Declaration

```
public static string ControlUnitSerial(this FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	fiscalResponse	

#### Returns

#### Type Description

[string](#)

### GetFiscalResponseSweden(int, List<DocumentTaxPosition>, long, string, string, string, string, string, string)

Returns the fiscal response for austria out of the given parameters.

#### Declaration

```
public static FiscalResponse GetFiscalResponseSweden(int fiscalisationDocumentNumber, List<DocumentTaxPosition> taxPositions, long fiscalDocumentStartTime, string signature, string cashRegisterId, string printMessage, string errorDescription, string controlUnitSerial, string userMessage)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalisationDocumentNumber	The fiscalisation document number.
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	taxPositions	Tax positions calculated by fiscal system.
<a href="#">long</a>	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
<a href="#">string</a>	signature	The signature of the security device (country-specific).
<a href="#">string</a>	cashRegisterId	The cash register id.
<a href="#">string</a>	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
<a href="#">string</a>	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
<a href="#">string</a>	controlUnitSerial	The central control unit identification.
<a href="#">string</a>	userMessage	An message to the user (if control unit is not available).

**Returns**

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the fiscal response for austria.



# Class NumberTrail

Storage for fiscal document number.

## Inheritance

[object](#)

[DataStorage<IntegerStorageRecord>](#)

NumberTrail

## Inherited Members

[DataStorage<IntegerStorageRecord>.EnsureRecordDateTimeAscending](#)

[DataStorage<IntegerStorageRecord>.Push\(IntegerStorageRecord\)](#)

[DataStorage<IntegerStorageRecord>.FetchLast\(int\)](#)

[DataStorage<IntegerStorageRecord>.FetchFirst\(\)](#)

[DataStorage<IntegerStorageRecord>.FetchByDate\(DateTime, DateTime\)](#)

[DataStorage<IntegerStorageRecord>.FetchAllAfter\(DateTime\)](#)

[DataStorage<IntegerStorageRecord>.ValidateRecord\(IntegerStorageRecord, out string\)](#)

[DataStorage<IntegerStorageRecord>.GetWriteStream\(\)](#)

[DataStorage<IntegerStorageRecord>.GetReadStream\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class NumberTrail : DataStorage<IntegerStorageRecord>
```

## Constructors

### NumberTrail(IStreamProvider)

Constructor.

#### Declaration

```
public NumberTrail(IStreamProvider streamProvider)
```

#### Parameters

Type	Name	Description
<a href="#">IStreamProvider</a>	streamProvider	The stream provider to access the data (read/write streams).

## Properties

### AlgorithmMandatory

True if the stored record has to have an algorithm section; otherwise false.

#### Declaration

```
public override bool AlgorithmMandatory { get; }
```

#### Property Value

## Type Description

[bool](#)

## Overrides

[DataStorage<IntegerStorageRecord>.AlgorithmMandatory](#)

## SignatureMandatory

True if the stored record has to have a signature section; otherwise false.

## Declaration

```
public override bool SignatureMandatory { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[DataStorage<IntegerStorageRecord>.SignatureMandatory](#)

## UrlEncode

True if the data in the storage file is base64 url encoded (true); otherwise it is base64 encoded (false).

## Declaration

```
public override bool UrlEncode { get; }
```

## Property Value

## Type Description

[bool](#)

## Overrides

[DataStorage<IntegerStorageRecord>.UrlEncode](#)

# Class SwedenFiscalProperties

Properties for sweden.

## Inheritance

[object](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>](#)

SwedenFiscalProperties

## Implements

[IFiscalCountryProperties](#)

## Inherited Members

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.StartDocumentType](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.NotSupportedPayOutTypes](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.FiscalModuleCalculatesTaxRates](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.StoreNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.TerminalNumberValidCharsRegex](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.FiscalRegions](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.AmountDecimalPlaces](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.EntityParameters](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.DocumentTypeBusinessTransactionTypeSupport](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ValidateClient\(FiscalClient\)](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SupportedEnvironments](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.CompanyIdentificationSet\(FiscalClient, CompanyIdentification.IdentificationType\)](#)

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.CheckAddress\(List<ValidationError>, string, Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class SwedenFiscalProperties : FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>, IFiscalCountryProperties
```

## Properties

### AuditLogMandatory

True if the audit log has to be filled up; otherwise false.

#### Declaration

```
public override bool AuditLogMandatory { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.AuditLogMandatory](#)

### CountryModuleVersion

Returns the version of the country module.

#### Declaration

```
public override Version CountryModuleVersion { get; }
```

#### Property Value

## Type Description

[Version](#)

### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.CountryModuleVersion](#)

## CustomerDisplayMandatory

True if the customer display fiscal interface has to be implemented; otherwise false.

### Declaration

```
public override bool CustomerDisplayMandatory { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.CustomerDisplayMandatory](#)

## FiscalCountry

The fiscal country for this property collection.

### Declaration

```
public override FiscalCountry FiscalCountry { get; }
```

### Property Value

## Type Description

[FiscalCountry](#)

### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.FiscalCountry](#)

## FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

### Declaration

```
public override List<DocumentType> FiscalDocumentTypes { get; }
```

### Property Value

## Type Description

[List<DocumentType>](#)

### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.FiscalDocumentTypes](#)

## FiscalLineInterface

True if the items must be transmitted to the fiscal interface individually; False if the whole document must be transmitted at once.

### Declaration

```
public override bool FiscalLineInterface { get; }
```

### Property Value

## Type Description

[bool](#)

### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.FiscalLineInterface](#)

### **GetCloudArchiveAccessLicense**

Returns the cloud archive access license for the respective country.

#### **Declaration**

```
public override string GetCloudArchiveAccessLicense { get; }
```

#### **Property Value**

#### **Type Description**

[string](#)

#### **Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.GetCloudArchiveAccessLicense](#)

#### **Remarks**

Return empty string if there is not cloud

### **MaximumHourIntervalForClosing**

The maximum interval in hours between two daily closings. If set to -1 it is infinite.

#### **Declaration**

```
public override int MaximumHourIntervalForClosing { get; }
```

#### **Property Value**

#### **Type Description**

[int](#)

#### **Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.MaximumHourIntervalForClosing](#)

#### **Remarks**

If the maximum interval is set and documents (except [EndOfDay](#)) are sent to the service the documents are blocked with an exception.

### **MustRecordDocumentReprint**

True if the methods [ReprintDocument\(Guid, User, string, int\)](#) or [ReprintDocument\(Document, string\)](#) must be used to store the number of reprints of a document.

#### **Declaration**

```
public override bool MustRecordDocumentReprint { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

#### **Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.MustRecordDocumentReprint](#)

### **MustSendClosingPerDay**

True if the pos software must send a closing [EndOfDay](#) document each day; otherwise false.

#### **Declaration**

```
public override bool MustSendClosingPerDay { get; }
```

#### **Property Value**

#### **Type Description**

[bool](#)

## Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.MustSendClosingPerDay](#)

## NotSupportedBusinessTransactionTypes

Returns a list of all not supported business transaction types.

### Declaration

```
public override List<BusinessTransactionType> NotSupportedBusinessTransactionTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.NotSupportedBusinessTransactionTypes](#)

## NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

### Declaration

```
public override List<DocumentType> NotSupportedDocumentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.NotSupportedDocumentTypes](#)

## Remarks

A not supported document type must not be included in [FiscalDocumentTypes](#).

## NotSupportedPaymentTypes

Returns a list of all not supported payment types.

### Declaration

```
public override List<PaymentType> NotSupportedPaymentTypes { get; }
```

### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

## Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.NotSupportedPaymentTypes](#)

## PrintFiscalDocumentNumber

Returns whether the fiscal document number (of [FiscalResponse](#)) has to be printed out on the receipt or not.

### Declaration

```
public override bool PrintFiscalDocumentNumber { get; }
```

### Property Value

Type	Description
<a href="#">bool</a>	

## Overrides

### ReprintAllowedDomain

Returns the domain within reprints are allowed.

#### Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ReprintAllowedDomain](#)

### ReturnAndSaleBehavior

Returns whether one or more receipts have to be created when return and sales would both exist on one receipt.

#### Declaration

```
public override ReturnAndSaleBehavior ReturnAndSaleBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnAndSaleBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

### ReturnDomainAllowed

Returns the domain where document references are allowed.

#### Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

#### Property Value

Type	Description
<a href="#">ReceiptDomain</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ReturnDomainAllowed](#)

### ReturnReferenceBehavior

Returns if more than one document is allowed to reference in one document (Multiple); otherwise not (Single).

#### Declaration

```
public override ReturnReferenceBehavior ReturnReferenceBehavior { get; }
```

#### Property Value

Type	Description
<a href="#">ReturnReferenceBehavior</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

### SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

#### Declaration

```
public override List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;BusinessTransactionType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SupportedBusinessTransactionTypes](#)

#### SupportedDocumentTypes

Returns a list of all by the fiscal module supported document types. Contains all document types (including fiscal document types).

#### Declaration

```
public override List<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;DocumentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SupportedDocumentTypes](#)

#### Remarks

A supported document type can be send to the fiscal system, but is not a fiscalized document. Non fiscalized documents normally will not send a [FiscalResponse](#).

#### SupportedPaymentTypes

Returns a list of all supported payment types.

#### Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

#### Property Value

Type	Description
<a href="#">List&lt;PaymentType&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SupportedPaymentTypes](#)

#### SupportedVatDefinitions

Returns the supported vat definitions for this country.

#### Declaration

```
public override ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

#### Property Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

#### Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SupportedVatDefinitions](#)

#### SurchargesPossible

True if surcharges in fiscal document types are allowed; otherwise false.

#### Declaration



```
public override bool SurchargesPossible { get; }
```

**Property Value**

### Type Description

[bool](#)

**Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.SurchargesPossible](#)

### TaxFreeVat

The tax free vat class for this country.

**Declaration**

```
public override Vat TaxFreeVat { get; }
```

**Property Value**

### Type Description

[Vat](#)

**Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.TaxFreeVat](#)

### TrainingModeAllowed

True if the training mode in this country is allowed; otherwise false.

**Declaration**

```
public override bool TrainingModeAllowed { get; }
```

**Property Value**

### Type Description

[bool](#)

**Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.TrainingModeAllowed](#)

## Methods

### ValidateClientImplementation(FiscalClient)

**Declaration**

```
protected override List<ValidationError> ValidateClientImplementation(FiscalClient client)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalClient</a>	client	

**Returns**

Type	Description
<a href="#">List&lt;ValidationError&gt;</a>	

**Overrides**

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ValidateClientImplementation\(FiscalClient\)](#)

## Implements

[IFiscalCountryProperties](#)

# Class SwedishFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for swedish fiscalisation.

## Inheritance

[object](#)  
[Attribute](#)  
[ValidationAttribute](#)  
[RequiredAttribute](#)  
SwedishFiscalisationRequiredAttribute

## Inherited Members

[RequiredAttribute.IsValid\(object\)](#)  
[RequiredAttribute.AllowEmptyStrings](#)  
[ValidationAttribute.FormatErrorMessage\(string\)](#)  
[ValidationAttribute.GetValidationResult\(object, ValidationContext\)](#)  
[ValidationAttribute.IsValid\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, ValidationContext\)](#)  
[ValidationAttribute.Validate\(object, string\)](#)  
[ValidationAttribute.ErrorMessage](#)  
[ValidationAttribute.ErrorMessageResourceName](#)  
[ValidationAttribute.ErrorMessageResourceType](#)  
[ValidationAttribute.ErrorMessageString](#)  
[ValidationAttribute.RequiresValidationContext](#)  
[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

**Namespace:** [RetailForce.Fiscalisation.Implementation.Sweden](#)

**Assembly:** RetailForce.Fiscalisation.dll

### Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class SwedishFiscalisationRequiredAttribute : RequiredAttribute
```

# Class SwedishValidation

## Inheritance

[object](#)

SwedishValidation

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SwedishValidation
```

## Fields

### SupportedVatDefinitions

#### Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

#### Field Value

Type	Description
<a href="#">ReadOnlyCollection&lt;Vat&gt;</a>	

## Methods

### ValidateDocument(Document)

#### Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

# Class TrustedFiscalModuleSweden

Implementation for fiscalisation of Sweden.

## Inheritance

[object](#)  
[LoggingBase](#)  
[TrustedFiscalModuleBase](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>](#)  
[TrustedFiscalModuleSweden](#)

## Implements

[IFiscalModullImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

## Inherited Members

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.FiscalClientStatus](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CloudService](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CountryProperties](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CloudArchive](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.PerformanceTraceToFile](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetLastDocumentResponse](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.TrustedFiscalModule](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.InitializeClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.RestoreByCloudInitializeClient\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.DecommissionClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CancelDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CancelErrorDocument\(Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetErrorDocuments\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.ReprintDocument\(Document, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CreateDocument\(DocumentType\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.DisplayText\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.OpenDrawer\(User\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetDocumentMandatoryFields\(Type\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetTaxFreeVat\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetVatIdentification\(decimal, DateTime\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.StoreDocument\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.ValidateDocument\(Document, bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.ValidateFiscalClient\(Document\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetUniqueCashRegisterId\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.SetCloudCredentials\(string, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CallBufferedCloudFunction\(CloudFunctionCall\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.UploadDigitalReceipt\(ReceiptMetaData, Stream\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.AddAuditLog\(AuditLogEntry\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.WritePerformanceTrace\(string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.DownloadSignatureCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.DownloadOrganizationSignatureVerifyCertificate\(bool\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.DownloadExternalCertificate\(string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.SignData\(byte\[\]\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.VerifySignature\(byte\[\], string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.Dispose\(\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.StoreExternalCertificate\(Stream, string, bool, string\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetClosingNecessary\(out DateTimeOffset?, DateTimeOffset?\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MapDocumentToReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MapReceiptMetaDataToCloudReceiptMetaData\(ReceiptMetaData\)](#)  
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MapDocumentToCloudReceiptMetaData\(Document, Guid\)](#)  
[TrustedFiscalModuleBase.FiscalClient](#)  
[TrustedFiscalModuleBase.FiscalStorageProvider](#)  
[TrustedFiscalModuleBase.GetUniqueCashRegisterId\(string, string, char\)](#)  
[TrustedFiscalModuleBase.GetStorageBasePath\(\)](#)  
[TrustedFiscalModuleBase.GetClientStoragePath\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public sealed class TrustedFiscalModuleSweden : TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>, IFiscal
```

## Constructors

**TrustedFiscalModuleSweden(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalDataStorageProvider, CloudService, string, string)**

## Declaration

```
public TrustedFiscalModuleSweden(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalDataStorageProvider storageProvider, Cl
```

## Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	
<a href="#">ILogger</a>	logger	
<a href="#">Action&lt;IFiscalImplementationConfiguration&gt;</a>	storeConfiguration	
<a href="#">FiscalDataStorageProvider</a>	storageProvider	
<a href="#">CloudService</a>	cloudService	
<a href="#">string</a>	cloudApiKey	
<a href="#">string</a>	cloudApiSecret	

## Fields

## UniqueCashRegisterSeparator

### Declaration

```
public const char UniqueCashRegisterSeparator = 'U'
```

### Field Value

### Type Description

[char](#)

## Properties

### FiscalClientStatus

Returns the status of the fiscal client.

### Declaration

```
public override FiscalClientStatus FiscalClientStatus { get; }
```

### Property Value

Type	Description
<a href="#">FiscalClientStatus</a>	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalsationRequiredAttribute, SwedenFiscalProperties>.FiscalClientStatus](#)

## Methods

### CancelDocument(Document)

Cancels a document on the fiscal interface.

### Declaration

```
public override FiscalResponse CancelDocument(Document document)
```

### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to cancel.

### Returns

Type	Description
<a href="#">FiscalResponse</a> A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.	

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalsationRequiredAttribute, SwedenFiscalProperties>.CancelDocument\(Document\)](#)

### CloudArchiveEnabled(ClientConfiguration)

Returns true if the client configuration for the respective country has cloud archive enabled.

### Declaration

```
protected override bool CloudArchiveEnabled(ClientConfiguration clientConfiguration)
```

### Parameters

Type	Name	Description
<a href="#">ClientConfiguration</a>	clientConfiguration	

### Returns

### Type Description

[bool](#)

### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalsationRequiredAttribute, SwedenFiscalProperties>.CloudArchiveEnabled\(ClientConfiguration\)](#)

### Remarks

This method is used to check if cloud connect was called to create the module, if not [CloudNotConnectedException](#) is thrown by the module.

### CreateDocument(DocumentType)

Creates a document at the fiscal interface and returns appropriate data.

### Declaration

```
public override FiscalResponse CreateDocument(DocumentType documentType)
```

### Parameters

Type	Name	Description
<a href="#">DocumentType</a>	documentType	The type of the document for which the document should be created.

### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.CreateDocument\(DocumentType\)](#)

#### Remarks

This method must return [FiscalResponse](#) object. Null is not allowed. For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### DecommissionClient(Document)

Decommission of fiscal client (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse DecommissionClient(Document endDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	endDocument	A document of type <a href="#">NullReceipt</a> representing the end document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.DecommissionClient\(Document\)](#)

#### GetUniqueCashRegisterId()

Returns the unique cash register id (storenumber/terminalnumber).

#### Declaration

```
public override string GetUniqueCashRegisterId()
```

#### Returns

Type	Description
<a href="#">string</a>	The unique cash register id (storenumber/terminalnumber).

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.GetUniqueCashRegisterId\(\)](#)

#### InitializeClient(Document)

Initializes fiscalisation unit (and possible hardware, and possible declaration to financial authorities).

#### Declaration

```
public override FiscalResponse InitializeClient(Document startDocument)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	startDocument	A document of type <a href="#">NullReceipt</a> representing the starting document of the fiscalisation.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.InitializeClient\(Document\)](#)

#### MigrateClient(string, string, string, string, string, string)

Migrates a client from different fiscal system.

#### Declaration

```
public override void MigrateClient(string serviceUrl, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	serviceUrl	The service url of the other fiscal system.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Type	Name	Description
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>serviceUrl</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">NotSupportedException</a>	Thrown if the given service url is not supported for migration.

#### MigrateClientFile(string, string, string, string, string, string)

Migrates a client from different fiscal system with file import.

#### Declaration

```
public override void MigrateClientFile(string importFile, string param1 = null, string param2 = null, string param3 = null, string param4 = null, string param5 = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	importFile	The file to import for migration.
<a href="#">string</a>	param1	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param2	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param3	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param4	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
<a href="#">string</a>	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>importFile</code> is set to null or <a href="#">Empty</a> .
<a href="#">NotSupportedException</a>	Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.
<a href="#">InvalidDataException</a>	Thrown if the client is not in state <a href="#">NotInitialized</a> .
<a href="#">InvalidDataException</a>	Thrown if the import file is empty or cannot be read.
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

#### ReprintDocument(Document, string)

Stores a document reprint to the fiscal interface.

#### Declaration

```
public override FiscalResponse ReprintDocument(Document document, string reason)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document which is printed again. There's no check if document data is the same, this must be ensured by the pos application.
<a href="#">string</a>	reason	The reason for the duplicate. Optional for normal <a href="#">Receipt</a> . Mandatory for <a href="#">LongTermOrder</a> .

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object containing the response of the fiscalisation unit if reprinting is a fiscal transaction; otherwise null is returned (maybe also if reprint must be sent).



#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.ReprintDocument\(Document, string\)](#)

#### Remarks

Not necessary in all countries. See [MustRecordDocumentReprint](#) if it must be sent. If not necessary or if fiscal system is not responding with [FiscalResponse](#) null is returned.

#### StoreDocument(Document)

Stores a document to the fiscal interface.

#### Declaration

```
public override FiscalResponse StoreDocument(Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to store.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	A <a href="#">FiscalResponse</a> object representing the appropriate fiscal response data.

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.StoreDocument\(Document\)](#)

#### Remarks

For more information concerning the [FiscalResponse](#) look at the fiscal response for the applicable country implementation.

#### ValidateDocumentImplementation(Document, bool)

#### Declaration

```
protected override List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	reprintDocument	

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	

#### Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

#### Implements

[IFiscalModuleImplementation](#)  
[IDocumentInterface](#)  
[IDisposable](#)

# Namespace RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit

## Classes

### [AxenaCentralControlUnit](#)

Implementation for swedish axena central control unit.

### [AxenaDriverInfo](#)

### [CentralControlUnitRequest](#)

Class for central unit request.

### [CentralControlUnitResponse](#)

Class for the central control unit response.

### [ControlUnitDriverInfo](#)

Public abstract

### [TokenAuthenticator](#)

Basic token authenticator using authorization header attribute with authentication token.

## Interfaces

### [ICentralControlUnit](#)

### [ICentralControlUnitConfiguration<TDriverInfo>](#)

# Class AxenaCentralControlUnit

Implementation for swedish axena central control unit.

## Inheritance

[object](#)

[LoggingBase](#)

[RestServiceBasicClient<ApiErrorModel>](#)

[AxenaCentralControlUnit](#)

## Implements

[ICentralControlUnitConfiguration<AxenaDriverInfo>](#)

[ICentralControlUnit](#)

## Inherited Members

[RestServiceBasicClient<ApiErrorModel>.BaseUrl](#)

[RestServiceBasicClient<ApiErrorModel>.ProxyConfiguration](#)

[RestServiceBasicClient<ApiErrorModel>.AdditionalParameters](#)

[RestServiceBasicClient<ApiErrorModel>.UseNewtonsoftSerialization](#)

[RestServiceBasicClient<ApiErrorModel>.Get<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Post\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Post<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Put\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Put<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Patch\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Patch<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Head\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Head<TReturnType>\(string, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Delete\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.Delete<TReturnType>\(string, object, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.CreateRequest\(string, Method, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.RestRequest<TReturnType>\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse<TReturnType>>, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.RestRequest\(Method, string, object, Func<IRestRequest, RestClient, IRestResponse>, params Parameter\[\]\)](#)

[RestServiceBasicClient<ApiErrorModel>.ProcessResponseError\(string, IRestResponse\)](#)

[RestServiceBasicClient<ApiErrorModel>.ProcessResponseError<TReturnType>\(IRestResponse<TReturnType>\)](#)

[LoggingBase. \\_logger](#)

[LoggingBase. \\_logSource](#)

[LoggingBase.LogCritical\(string, params object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogError\(string, params object\[\]\)](#)

[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogWarning\(string, params object\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class AxenaCentralControlUnit : RestServiceBasicClient<ApiErrorModel>, ICentralControlUnitConfiguration<AxenaDriverInfo>, ICentralControlUnit
```

## Constructors

**AxenaCentralControlUnit(string, string, ILogger, int, ProxyConfiguration)**

### Constructor

### Declaration

```
public AxenaCentralControlUnit(string apiKey, string baseUrl, ILogger logger, int commandTimeout = 0, ProxyConfiguration proxyConfiguration = null)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	apiKey	
<a href="#">string</a>	baseUrl	The base url of the rest client.
<a href="#">ILogger</a>	logger	A logger for logging purposes.
<a href="#">int</a>	commandTimeout	Optional. The command timeout for rest request. If set to 0 default command timeout of RestSharp is used.

ProxyConfiguration proxyConfiguration Optional. Can be used to use proxy for communication with the rest service.

## Exceptions

### Type

### Condition

[ArgumentNullException](#) Thrown if parameter `baseUrl` is set to null or [Empty](#).

[ArgumentNullException](#) Thrown if parameter `logger` is set to null.

## Fields

### ActivationIdParameterName

The parameter name of the configuration parameters for the activationId.

#### Declaration

```
public const string ActivationIdParameterName = "activationId"
```

#### Field Value

#### Type Description

[string](#)

### ApiKeyParameterName

The parameter name of the configuration parameters for the apiKey.

#### Declaration

```
public const string ApiKeyParameterName = "apiKey"
```

#### Field Value

#### Type Description

[string](#)

### ControlUnitApplicationPackage

Application package name for control unit provisioning.

#### Declaration

```
public const string ControlUnitApplicationPackage = "CCUAppPackage"
```

#### Field Value

#### Type Description

[string](#)

### ControlUnitProvPassword

Password to create an entity on the ccu for the requested terminal. Not to use for normal "signing".

#### Declaration

```
public const string ControlUnitProvPassword = "CCUProvPassword"
```

#### Field Value

#### Type Description

[string](#)

### ControlUnitProvUser

User to create an entity on the ccu for the requested terminal. Not to use for normal "signing".

#### Declaration

```
public const string ControlUnitProvUser = "CCUProvUser"
```

#### Field Value

#### Type Description

[string](#)

### ControlUnitSerialParameterName

The parameter name of the configuration parameter for the central cloud unit serial.

#### Declaration

```
public const string ControlUnitSerialParameterName = "CCUSerial"
```

#### Field Value

#### Type Description

[string](#)

#### ProductionNumberParameterName

The parameter name of the configuration parameters for the productionNumber.

#### Declaration

```
public const string ProductionNumberParameterName = "productionNumber"
```

#### Field Value

#### Type Description

[string](#)

#### Methods

#### Btoa(string)

#### Declaration

```
public static string Btoa(string toEncode)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	toEncode	
------------------------	----------	--

#### Returns

#### Type Description

[string](#)

#### CreateClient()

Creates the rest client.

#### Declaration

```
protected override RestClient CreateClient()
```

#### Returns

Type	Description
------	-------------

RestClient	A RestSharp.RestClient object representing the rest client.
------------	---

#### Overrides

```
RetailForce.Common.RestServiceBasicClient<RetailForce.Common.ApiErrorMode>.CreateClient()
```

#### GetResponse(CentralControlUnitRequest)

Sends a transaction (document) request to the central control unit and returns the response.

#### Declaration

```
public CentralControlUnitResponse GetResponse(CentralControlUnitRequest request)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">CentralControlUnitRequest</a>	request	The request for the central control unit.
---	---------	---

#### Returns

Type	Description
------	-------------

<a href="#">CentralControlUnitResponse</a>	The response of the central control unit.
--	---

#### Remarks

Has to throw an exception if response isn't working.

#### GetUnitDriverInfo()

#### Declaration

```
public AxenaDriverInfo GetUnitDriverInfo()
```

#### Returns

Type	Description
<a href="#">AxenaDriverInfo</a>	

#### IsOnline(string)

True if the control unit is online and authentication does not fail.

#### Declaration

```
public bool IsOnline(string organizationId)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	organizationId	The id of the axena ccu organization.

#### Returns

Type	Description
<a href="#">bool</a>	True if the control unit is online and operational; otherwise false.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>organizationId</code> is set to null or <a href="#">Empty</a> .

#### Implements

[ICentralControlUnitConfiguration<IDriverInfo>](#)  
[ICentralControlUnit](#)

# Class AxenaDriverInfo

## Inheritance

[object](#)  
[ControlUnitDriverInfo](#)  
AxenaDriverInfo

## Inherited Members

[ControlUnitDriverInfo.GetDriverInfos\(\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AxenaDriverInfo : ControlUnitDriverInfo
```

## Constructors

### AxenaDriverInfo()

#### Declaration

```
public AxenaDriverInfo()
```

## Properties

### ControlUnitDriver

The type of the control unit driver.

#### Declaration

```
public override ControlUnitDriver ControlUnitDriver { get; }
```

#### Property Value

Type	Description
<a href="#">ControlUnitDriver</a>	

#### Overrides

[ControlUnitDriverInfo.ControlUnitDriver](#)

## Parameters

Additional parameters to configure the control unit driver

#### Declaration

```
public override List<ParameterInfo> Parameters { get; }
```

#### Property Value

**Type**      **Description**

[List<ParameterInfo>](#)

**Overrides**

[ControlUnitDriverInfo.Parameters](#)



# Class CentralControlUnitRequest

Class for central unit request.

## Inheritance

[object](#)

CentralControlUnitRequest

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CentralControlUnitRequest
```

## Properties

### BookDate

The book date of the receipt.

#### Declaration

```
public DateTime BookDate { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">DateTime</a>	
--------------------------	--

### DocumentNumber

The document number for the request.

#### Declaration

```
public int DocumentNumber { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">int</a>	
---------------------	--

## Remarks

In this implementation the fiscal document number (counted by the system itself) is used for the document number.

### DocumentType

Type type of the receipt;

#### Declaration

```
public DocumentType DocumentType { get; set; }
```

#### Property Value

#### Type Description

[DocumentType](#)

#### GrossAmount

The total gross amount of the receipt.

#### Declaration

```
public decimal GrossAmount { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

#### Remarks

In case of refund ([Refund](#) = true) the values have to be negative.

#### OrganizationId

The id of the registered organization.

#### Declaration

```
public string OrganizationId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Refund

True if the receipt is a refund (return); otherwise false.

#### Declaration

```
public bool Refund { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Remarks

Does not invert the amount. Amount for refund must be negative.

#### Reprint

True if this is a reprint request. Otherwise false.

#### Declaration

```
public bool Reprint { get; set; }
```

#### Property Value

## Type Description

[bool](#)

## TaxPositions

The tax positions for the receipt.

### Declaration

```
public List<DocumentTaxPosition> TaxPositions { get; set; }
```

### Property Value

Type	Description
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	

## UniqueCashRegisterId

The id of the cash register.

### Declaration

```
public string UniqueCashRegisterId { get; set; }
```

### Property Value

## Type Description

[string](#)

# Class CentralControlUnitResponse

Class for the central control unit response.

## Inheritance

[object](#)

CentralControlUnitResponse

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public sealed class CentralControlUnitResponse
```

## Constructors

### CentralControlUnitResponse(string, string)

Constructor.

## Declaration

```
public CentralControlUnitResponse(string response, string controlUnitSerial)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	response	The response signature from the ccu.
<a href="#">string</a>	controlUnitSerial	The used serial number of the ccu. Should be printed out.

## Properties

### ControlUnitSerial

The used serial number of the ccu. Should be printed out.

## Declaration

```
[JsonProperty]  
public string ControlUnitSerial { get; }
```

## Property Value

### Type Description

[string](#)

## Signature

The response signature from the ccu.

**Declaration**

```
[JsonProperty]  
public string Signature { get; }
```

**Property Value****Type Description**

[string](#)

# Class ControlUnitDriverInfo

Public abstract

## Inheritance

[object](#)

ControlUnitDriverInfo

[AxenaDriverInfo](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class ControlUnitDriverInfo
```

## Properties

### ControlUnitDriver

The type of the control unit driver.

#### Declaration

```
public abstract ControlUnitDriver ControlUnitDriver { get; }
```

#### Property Value

Type	Description
------	-------------

[ControlUnitDriver](#)

## Parameters

Additional parameters to configure the control unit driver

#### Declaration

```
public abstract List<ParameterInfo> Parameters { get; }
```

#### Property Value

Type	Description
------	-------------

[List<ParameterInfo>](#)

## Methods

### GetDriverInfos()

Returns all available driver infos.

#### Declaration

```
public static IEnumerable<ControlUnitDriverInfo> GetDriverInfos()
```

**Returns**

Type	Description
<a href="#">IEnumerable&lt;ControlUnitDriverInfo&gt;</a>	

# Interface ICentralControlUnit

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ICentralControlUnit
```

## Methods

### GetResponse(CentralControlUnitRequest)

Sends a transaction (document) request to the central control unit and returns the response.

#### Declaration

```
CentralControlUnitResponse GetResponse(CentralControlUnitRequest request)
```

#### Parameters

Type	Name	Description
<a href="#">CentralControlUnitRequest</a>	request	The request for the central control unit.

#### Returns

Type	Description
<a href="#">CentralControlUnitResponse</a>	The response of the central control unit.

#### Remarks

Has to throw an exception if response isn't working.

### IsOnline(string)

True if the control unit is online and authentication does not fail.

#### Declaration

```
bool IsOnline(string organizationId)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	organizationId	The id of the axena ccu organization.

#### Returns

Type	Description
<a href="#">bool</a>	True if the control unit is online and operational; otherwise false.

#### Exceptions

Type	Condition
------	-----------



**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `organizationId` is set to null or [Empty](#).

# Interface ICentralControlUnitConfiguration<TDriverInfo>

## Inherited Members

[ICentralControlUnit.GetResponse\(CentralControlUnitRequest\)](#)

[ICentralControlUnit.IsOnline\(string\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ICentralControlUnitConfiguration<TDriverInfo> : ICentralControlUnit where TDriverInfo : ControlUnitDriverInfo
```

## Type Parameters

Name	Description
------	-------------

TDriverInfo	
-------------	--

## Methods

### GetUnitDriverInfo()

#### Declaration

```
TDriverInfo GetUnitDriverInfo()
```

#### Returns

Type	Description
------	-------------

TDriverInfo	
-------------	--

# Class TokenAuthenticator

Basic token authenticator using authorization header attribute with authentication token.

## Inheritance

[object](#)

TokenAuthenticator

## Implements

IAuthenticator

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Sweden.CentralControlUnit](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class TokenAuthenticator : IAuthenticator
```

## Constructors

### TokenAuthenticator(string)

Constructor.

#### Declaration

```
public TokenAuthenticator(string token)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a> token	The token for authentication. Must not be null or empty string.
------------------------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>token</code> is set to null or <a href="#">Empty</a> .
---------------------------------------	--

## Methods

### Authenticate(IRestClient, IRestRequest)

#### Declaration

```
public void Authenticate(IRestClient client, IRestRequest request)
```

#### Parameters

Type	Name	Description
IRestClient	client	
IRestRequest	request	

### Implements

RestSharp.Authenticators.IAuthenticator

# Namespace RetailForce.Fiscalisation.Licensing

## Classes

### [ClientLicensing](#)

Client static class for license functions (jwt token)

# Class ClientLicensing

Client static class for license functions (jwt token)

## Inheritance

[object](#)

ClientLicensing

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Licensing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ClientLicensing
```

## Methods

### GetClientLicenseAccessLicenses(Guid, Guid, string)

Returns the client access licenses stored in the license key.

#### Declaration

```
public static List<string> GetClientLicenseAccessLicenses(Guid uniqueClientId, Guid licenseConsumerId, string licenseToken)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id (fiscal client id) of the license token.
<a href="#">Guid</a>	licenseConsumerId	The license consumer id of the license token.
<a href="#">string</a>	licenseToken	The license token.

#### Returns

Type	Description
<a href="#">List&lt;string&gt;</a>	The client access license list if stored and the token is valid; otherwise null.

### GetClientLicenseClaim(Guid, Guid, string)

Returns the license claim for the given license token.

#### Declaration

```
public static ClientLicenseClaim GetClientLicenseClaim(Guid uniqueClientId, Guid licenseConsumerId, string licenseToken)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id (fiscal client id) of the license token.

Type	Name	Description
<a href="#">Guid</a>	licenseConsumerId	The license consumer id of the license token.

<a href="#">string</a>	licenseToken	The license token.
------------------------	--------------	--------------------

#### Returns

Type	Description
ClientLicenseClaim	The license claim stored in the token.

#### Remarks

Else well `uniqueClientId` and `licenseToken` must be same value as stored in token; otherwise a [SecurityException](#) will be raised.

#### Exceptions

Type	Condition
<a href="#">SecurityException</a>	Thrown if the token is not valid.

### GetIssuerPublicKey()

Returns the public key for token validation (asymmetric key validation).

#### Declaration

```
public static string GetIssuerPublicKey()
```

#### Returns

Type	Description
<a href="#">string</a>	The public key for token validation (asymmetric key validation).

### HasAccessLicense(FiscalClient, string)

Returns whether the given client has the requested access license.

#### Declaration

```
public static bool HasAccessLicense(FiscalClient fiscalClient, string accessLicenseId)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	fiscalClient	The client to check.
<a href="#">string</a>	accessLicenseId	The access license to check.

#### Returns

Type	Description
<a href="#">bool</a>	True if the client has the requested access license; otherwise false.

#### Exceptions

Type	Condition
------	-----------

**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `fiscalClient` is set to null.

[ArgumentNullException](#) Thrown if parameter `accessLicenseId` is set to null or `String.Empty`.

**HasLicense(FiscalClient, string)**

Returns whether the given client has the requested license.

**Declaration**

```
public static bool HasLicense(FiscalClient fiscalClient, string licenseId)
```

**Parameters**

Type	Name	Description
<a href="#">FiscalClient</a>	<code>fiscalClient</code>	The client to check.
<a href="#">string</a>	<code>licenseId</code>	The license to check.

**Returns**

Type	Description
<a href="#">bool</a>	True if the client has the requested license; otherwise false.

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `fiscalClient` is set to null.

[ArgumentNullException](#) Thrown if parameter `licenseId` is set to null or `String.Empty`.

**ValidateJwtToken(string, string)**

Validates the given jwt token and throws `SecurityException` if jwt token is invalid.

**Declaration**

```
public static void ValidateJwtToken(string token, string xmlKey)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	<code>token</code>	The token to validate.
<a href="#">string</a>	<code>xmlKey</code>	The public key for checking the hash of the token in .net xml format.



# Namespace RetailForce.Fiscalisation.Model

## Classes

### [BusinessTransactionTypeExtension](#)

### [DocumentJsonConverter](#)

Json Converter to read document json.

### [DocumentValidationBase](#)

Basic class for all document classes for validation.

### [FiscalClientStatus](#)

Returns the fiscal client status.

### [Partner](#)

The partner for a document.

### [Payment](#)

Payment for payment stock.

### [PaymentTerms](#)

Class to store payment terms

### [SecurityDeviceStateElement](#)

Represents a configured security device element and it's current state.

### [UploadInfo](#)

Upload information for archive upload.

### [User](#)

The user for a document.

### [Vat](#)

Represents the value added tax for document and document positions.

## Enums

### [BusinessTransactionType](#)

The type for the business transaction.

### [FiscalClientState](#)

Represents the state of the fiscal client (not of an security device).

### [PartnerIdentificationType](#)

### [PartnerType](#)

The type of the partner.

### [SecurityDeviceState](#)

Represents the state of a used security device (if there is no security device used, NotApplicable is returned).

# Enum BusinessTransactionType

The type for the business transaction.

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum BusinessTransactionType
```

## Remarks

When adding a new business transaction type add validation for the new type at Document.ValidateElement.

## Fields

Name	Description
CashDifference	Cash difference of the cash register when checking the cash stock.
CompanyTip	Tip for the company (do not use for employee tip).
Deposit	Deposit (pre-payment).
DepositOnEmpties	Flag for deposit on empties
GrantGenuine	A real grant (or genuine grant) position.
GrantUnreal	An unreal grant position.
MoneyTransfer	Money Transfer from or to the cash register (for instance from/to bank).
MultiPurposeVoucher	Transaction type for vouchers which can be used for any type of goods of any type of vat.
PayIn	Pay in to the cash register system.
PayOut	Pay out for the cash register system.
Revenue	Revenue of the cash register system.
SinglePurposeVoucher	Transaction type for vouchers which can be used for single type of good.
Tip	Tip for the employee (not for the company).

## Extension Methods

[BusinessTransactionTypeExtension.In\(BusinessTransactionType, params BusinessTransactionType\[\]\)](#)

# Class BusinessTransactionTypeExtension

## Inheritance

[object](#)

BusinessTransactionTypeExtension

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class BusinessTransactionTypeExtension
```

## Methods

**In(BusinessTransactionType, params BusinessTransactionType[])**

### Declaration

```
public static bool In(this BusinessTransactionType documentType, params BusinessTransactionType[] parameters)
```

### Parameters

Type	Name	Description
<a href="#">BusinessTransactionType</a>	documentType	
<a href="#">BusinessTransactionType[]</a>	parameters	

### Returns

### Type Description

[bool](#)

# Class DocumentJsonConverter

Json Converter to read document json.

## Inheritance

[object](#)

JsonConverter

DocumentJsonConverter

## Inherited Members

JsonConverter.CanRead

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentJsonConverter : JsonConverter
```

## Properties

### CanWrite

#### Declaration

```
public override bool CanWrite { get; }
```

#### Property Value

### Type Description

[bool](#)

#### Overrides

Newtonsoft.Json.JsonConverter.CanWrite

## Methods

### CanConvert(Type)

#### Declaration

```
public override bool CanConvert(Type objectType)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Type</a>	objectType	
----------------------	------------	--

#### Returns

### Type Description

[bool](#)

#### Overrides

[JsonConverter.CanConvert\(Type\)](#)

## ReadJson(JsonReader, Type, object, JsonSerializer)

### Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

### Parameters

Type	Name	Description
JsonReader	reader	
<a href="#">Type</a>	objectType	
<a href="#">object</a>	existingValue	
JsonSerializer	serializer	

### Returns

### Type Description

[object](#)

### Overrides

[JsonConverter.ReadJson\(JsonReader, Type, object, JsonSerializer\)](#)

## WriteJson(JsonWriter, object, JsonSerializer)

### Declaration

```
public override void WriteJson(JsonWriter writer, object value, JsonSerializer serializer)
```

### Parameters

Type	Name	Description
JsonWriter	writer	
<a href="#">object</a>	value	
JsonSerializer	serializer	

### Overrides

[JsonConverter.WriteJson\(JsonWriter, object, JsonSerializer\)](#)

# Class DocumentValidationBase

Basic class for all document classes for validation.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[Discount](#)

[Document](#)

[DocumentPayment](#)

[DocumentPositionBase](#)

[DocumentReference](#)

## Inherited Members

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[ValidationBase<DocumentValidationError>.ValidateElement\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]
public abstract class DocumentValidationBase : ValidationPropertyBase<DocumentValidationError>
```

## Properties

### DocumentLevel

The level for the document.

#### Declaration

```
protected abstract DocumentLevel DocumentLevel { get; }
```

#### Property Value

Type	Description
------	-------------

[DocumentLevel](#)

### VALIDATION\_ERROR\_SOURCE

The validation error source for all classes derived from this class.

#### Declaration

```
protected override string VALIDATION_ERROR_SOURCE { get; }
```

#### Property Value

Type	Description
------	-------------

[string](#)

#### Overrides

RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.VALIDATION\_ERROR\_SOURCE

## Methods

### AddPropertyError(ErrorLevel, string, string, string)

Adds a property attribute error with to correct implementation of ValidationErrorType.

#### Declaration

```
protected override DocumentValidationError AddPropertyError(ErrorLevel level, string declaringTypeName, string propertyName, string errorString)
```

#### Parameters

Type	Name	Description
ErrorLevel	level	The level of the property error.
<a href="#">string</a>	declaringTypeName	The name of the declaring type of the property with the validation error.
<a href="#">string</a>	propertyName	The name of the property with the validation error.
<a href="#">string</a>	errorString	The error description of the property error.

#### Returns

Type	Description
<a href="#">DocumentValidationError</a>	An <a href="#">DocumentValidationError</a> representing the ValidationError.

#### Overrides

[ValidationPropertyBase<DocumentValidationError>.AddPropertyError\(ErrorLevel, string, string, string\)](#)



## Enum FiscalClientState

Represents the state of the fiscal client (not of an security device).

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public enum FiscalClientState
```

### Fields

Name	Description
Decommissioned	Client is decommissioned and cannot be used anymore for transactions.
Initialized	Client was initialized, you can start to send transaction data.
NotInitialized	Client was not initialized until now. Use InitializeClient.

# Class FiscalClientStatus

Returns the fiscal client status.

## Inheritance

[object](#)

FiscalClientStatus

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FiscalClientStatus
```

## Properties

### Alert

True if an alert exists on the fiscal system.

#### Declaration

```
public bool Alert { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### CloudConnectionPossible

Represents if a cloud connection is possible (true if cloud api key/ secret) are set correct at startup or at CloudConnect method)

#### Declaration

```
public bool CloudConnectionPossible { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

### CloudMessagesQueued

Represents the number of the queued cloud messages (receipts).

#### Declaration

```
public int CloudMessagesQueued { get; set; }
```

#### Property Value

## Type Description

[int](#)

## CloudMessagesStoragePeriod

Represents the number of minutes of the oldest file stored in cloud message queue.

### Declaration

```
public int CloudMessagesStoragePeriod { get; set; }
```

### Property Value

## Type Description

[int](#)

## FiscalCountry

Represents the fiscal country of the client.

### Declaration

```
public FiscalCountry FiscalCountry { get; set; }
```

### Property Value

Type	Description
------	-------------

[FiscalCountry](#)

## FiscalIdentification

Represents the identification of the cash register

### Declaration

```
public string FiscalIdentification { get; set; }
```

### Property Value

## Type Description

[string](#)

### Remarks

Austria: unique "KassenID" announced to Finanzonline.

## FiscalSoftwareVersion

Represents the software version of the fiscal system.

### Declaration

```
public string FiscalSoftwareVersion { get; set; }
```

### Property Value

## Type Description

[string](#)

## IsTest

True if the client is a test client; False if client is a productive client.

#### Declaration

```
public bool IsTest { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Online

Represents if the fiscal system is online with the cloud system (online if applicable license available).

#### Declaration

```
public bool Online { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### SecurityDeviceStates

Returns a list of states for the connected (configured) security devices. Returns empty list if no security device is configured.

#### Declaration

```
public List<SecurityDeviceStateElement> SecurityDeviceStates { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;SecurityDeviceStateElement&gt;</a>	

#### State

The state of the fiscal client. Not the state of a possible used security device.

#### Declaration

```
public FiscalClientState State { get; set; }
```

#### Property Value

Type	Description
<a href="#">FiscalClientState</a>	

#### StoreNumber

Represents the store number of the cash register.

#### Declaration

```
public string StoreNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### TerminalNumber

Represents the terminal number of the cash register.

**Declaration**

```
public string TerminalNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**VatNumber**

Represents the vat number

**Declaration**

```
public string VatNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

# Class Partner

The partner for a document.

## Inheritance

[object](#)

[Address](#)

Partner

## Inherited Members

[Address.Street](#)

[Address.StreetNumber](#)

[Address.PostalCode](#)

[Address.City](#)

[Address.Community](#)

[Address.CountryCode](#)

[Address.FullStreet](#)

[Address.FromAdress\(Address\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Partner : Address
```

## Remarks

Possible examples for a document partner: Customer, Supplier, Store, ...

## Properties

### Caption

The caption (=name) of the partner.

#### Declaration

```
public string Caption { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Id

The id of the partner.

#### Declaration

```
public string Id { get; set; }
```

#### Property Value

## Type Description

[string](#)

## IdentificationType

The type of the identification shown in field [PartnerIdentification](#).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public PartnerIdentificationType? IdentificationType { get; set; }
```

### Property Value

Type	Description
<a href="#">PartnerIdentificationType?</a>	

## PartnerClassification

The classification of group or type of the partner (not the [PartnerType](#)).

### Declaration

```
public string PartnerClassification { get; set; }
```

### Property Value

## Type Description

[string](#)

### Remarks

This field can be used for subclassing customers (for instance). Therefore it can be used for customer groups, supplier groups etc.

## PartnerIdentification

The identification of the partner. If set also the property [IdentificationType](#) must be set.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string PartnerIdentification { get; set; }
```

### Property Value

## Type Description

[string](#)

## PartnerType

The type of this partner. For possible types see [PartnerType](#).

### Declaration

```
public PartnerType PartnerType { get; set; }
```

### Property Value

Type	Description
<a href="#">PartnerType</a>	

## TaxNumber

The tax number of the partner.

**Declaration**

```
public string TaxNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**VatNumber**

The vat number of the partner.

**Declaration**

```
public string VatNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Remarks**

This vat number is a valid EU-VAT number which can be validated through EU-VIES system.



# Enum PartnerIdentificationType

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum PartnerIdentificationType
```

## Fields

Name	Description
OfficialIdDocument	
Other	
Passport	
ResidenceCertificate	

# Enum PartnerType

The type of the partner.

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum PartnerType
```

## Fields

Name	Description
------	-------------

Customer	Represents a customer (buyer).
----------	--------------------------------

# Class Payment

Payment for payment stock.

## Inheritance

[object](#)

Payment

## Implements

[IEquatable<Payment>](#)

## Inherited Members

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Payment : IEquatable<Payment>
```

## Properties

### Amount

The amount of the payment in currency of the fiscal client.

#### Declaration

```
public decimal Amount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### Caption

The caption of the payment.

#### Declaration

```
public string Caption { get; set; }
```

#### Property Value

##### Type Description

[string](#)

### CurrencyIsoCode

The currency code of the payment.

#### Declaration

```
public string CurrencyIsoCode { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Remarks**

It is not allowed to have 2 different currency codes on the same [UniqueReadablePaymentIdentifier](#) within one fiscal client closing report.

**ForeignAmount**

The foreign amount of the payment (according to [CurrencyIsoCode](#)).

**Declaration**

```
public decimal ForeignAmount { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**ForeignAmountExchangeRate**

The exchange rate for the foreign amount to the currency of the [FiscalClient](#).

**Declaration**

```
public decimal ForeignAmountExchangeRate { get; set; }
```

**Property Value**

**Type Description**

[decimal](#)

**IsCash**

True if it is an cash payment; otherwise false (electronic, voucher, etc.)

**Declaration**

```
public bool IsCash { get; set; }
```

**Property Value**

**Type Description**

[bool](#)

**PaymentType**

The type of the payment. Default is Cash.

**Declaration**

```
public PaymentType PaymentType { get; set; }
```

**Property Value**

**Type Description**

[PaymentType](#)

## TaxValue

A possible tax value for single purpose vouchers.

### Declaration

```
public decimal? TaxValue { get; set; }
```

### Property Value

#### Type Description

[decimal?](#)

## UniqueReadablePaymentIdentifier

The unique identifier for this payment.

### Declaration

```
public string UniqueReadablePaymentIdentifier { get; set; }
```

### Property Value

#### Type Description

[string](#)

## VatIdentification

A possible vat identification for single purpose vouchers.

### Declaration

```
public int? VatIdentification { get; set; }
```

### Property Value

#### Type Description

[int?](#)

## VatPercent

A possible vat percent for single purpose vouchers.

### Declaration

```
public decimal? VatPercent { get; set; }
```

### Property Value

#### Type Description

[decimal?](#)

## VoucherId

A possible voucher id if needed for PaymentType.SinglePurposeVoucher or MultiPurposeVoucher

### Declaration

```
public string VoucherId { get; set; }
```

### Property Value

#### Type Description

## Type Description

[string](#)

## Methods

### Equals(DocumentPayment)

Determines whether the specified object is equal to the current object.

#### Declaration

```
public bool Equals(DocumentPayment payment)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentPayment</a>	payment	

#### Returns

Type	Description
------	-------------

[bool](#) [true](#) if the specified object is equal to the current object; otherwise, [false](#).

### Equals(Payment)

Determines whether the specified object is equal to the current object.

#### Declaration

```
public bool Equals(Payment other)
```

#### Parameters

Type	Name	Description
<a href="#">Payment</a>	other	

#### Returns

Type	Description
------	-------------

[bool](#) [true](#) if the specified object is equal to the current object; otherwise, [false](#).

### Equals(object)

Determines whether the specified object is equal to the current object.

#### Declaration

```
public override bool Equals(object obj)
```

#### Parameters

Type	Name	Description
------	------	-------------

[object](#) obj The object to compare with the current object.

#### Returns

Type	Description
------	-------------

[bool true](#) if the specified object is equal to the current object; otherwise, [false](#).

#### Overrides

[object.Equals\(object\)](#)

#### Invert()

Inverts the payment (amount will be turned negative).

#### Declaration

```
public Payment Invert()
```

#### Returns

Type	Description
------	-------------

[Payment](#) The inverted payment.

#### ToDocumentPayment()

Returns a [DocumentPayment](#) position out of this payment.

#### Declaration

```
public DocumentPayment ToDocumentPayment()
```

#### Returns

Type	Description
------	-------------

[DocumentPayment](#) A converted [DocumentPayment](#) position.

## Operators

#### operator ==(DocumentPayment, Payment)

#### Declaration

```
public static bool operator ==(DocumentPayment payment, Payment payment1)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentPayment</a>	payment	
<a href="#">Payment</a>	payment1	

#### Returns

Type	Description
------	-------------

[bool](#)

#### operator ==(Payment, DocumentPayment)

#### Declaration

```
public static bool operator ==(Payment payment1, DocumentPayment payment)
```

## Parameters

Type	Name	Description
<a href="#">Payment</a>	payment1	
<a href="#">DocumentPayment</a>	payment	

## Returns

### Type Description

[bool](#)

**operator ==(Payment, Payment)**

## Declaration

```
public static bool operator ==(Payment payment1, Payment payment2)
```

## Parameters

Type	Name	Description
<a href="#">Payment</a>	payment1	
<a href="#">Payment</a>	payment2	

## Returns

### Type Description

[bool](#)

**operator !=(DocumentPayment, Payment)**

## Declaration

```
public static bool operator !=(DocumentPayment payment, Payment payment1)
```

## Parameters

Type	Name	Description
<a href="#">DocumentPayment</a>	payment	
<a href="#">Payment</a>	payment1	

## Returns

### Type Description

[bool](#)

**operator !=(Payment, DocumentPayment)**

## Declaration

```
public static bool operator !=(Payment payment1, DocumentPayment payment)
```

## Parameters

Type	Name	Description
<a href="#">Payment</a>	payment1	
<a href="#">DocumentPayment</a>	payment	

## Returns

### Type Description



## Type Description

[bool](#)

## operator !=(Payment, Payment)

### Declaration

```
public static bool operator !=(Payment payment1, Payment payment2)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Payment</a>	payment1	
-------------------------	----------	--

<a href="#">Payment</a>	payment2	
-------------------------	----------	--

### Returns

## Type Description

[bool](#)

## Implements

[IEquatable<T>](#)

# Class PaymentTerms

Class to store payment terms

## Inheritance

[object](#)

PaymentTerms

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class PaymentTerms
```

## Constructors

### PaymentTerms()

Constructor.

#### Declaration

```
public PaymentTerms()
```

### PaymentTerms(int, int?, decimal?, decimal?)

Constructor.

#### Declaration

```
public PaymentTerms(int dueDateDays, int? discountDueDays = null, decimal? discount = null, decimal? latePaymentPenaltyRate = null)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	dueDateDays	
<a href="#">int?</a>	discountDueDays	
<a href="#">decimal?</a>	discount	
<a href="#">decimal?</a>	latePaymentPenaltyRate	

## Properties

### Discount

A possible discount in percent if invoice is payed till the days of property [DiscountDueDays](#).

#### Declaration

```
public decimal? Discount { get; set; }
```

#### Property Value

Type	Description
------	-------------

[decimal?](#)

### DiscountDueDays

The number of days the invoice can be payed with discount ([Discount](#)).

#### Declaration

```
public int? DiscountDueDays { get; set; }
```

**Property Value**

**Type Description**

[int?](#)

**DueDateDays**

The number of days the invoice has to be payed.

**Declaration**

```
public int DueDateDays { get; set; }
```

**Property Value**

**Type Description**

[int](#)

**LatePaymentPenaltyRate**

The penalty rate in percent if the invoice is payed to late.

**Declaration**

```
public decimal? LatePaymentPenaltyRate { get; set; }
```

**Property Value**

**Type Description**

[decimal?](#)

# Enum SecurityDeviceState

Represents the state of a used security device (if there is no security device used, NotApplicable is returned).

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum SecurityDeviceState
```

## Fields

Name	Description
Connected	Security device is connected and ready for transactions.
Decommissioned	Security device was decommissioned and cannot be used anymore.
Error	Security device is in error state, please contact your system administrator.
NotConnected	Security device is disconnected.
NotInitialized	Security device was not initialized until now. You have to initialize the device to use it for transactions.

# Class SecurityDeviceStateElement

Represents a configured security device element and it's current state.

## Inheritance

[object](#)

SecurityDeviceStateElement

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class SecurityDeviceStateElement
```

## Properties

### SecurityDeviceIdentifier

The identifier of the security device. Please refer to the country specific documentation to know which field is stored here.

#### Declaration

```
public string SecurityDeviceIdentifier { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## State

The state of the security device.

#### Declaration

```
public SecurityDeviceState State { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">SecurityDeviceState</a>	
-------------------------------------	--

## Methods

### ToString()

Returns a string that represents the current object.

#### Declaration

```
public override string ToString()
```

## Returns

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the current object.
------------------------	--

## Overrides

[object.ToString\(\)](#)

# Class UploadInfo

Upload information for archive upload.

## Inheritance

[object](#)

UploadInfo

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UploadInfo
```

## Properties

### Container

The name of the container (zip file) for [Type](#) = 2.

#### Declaration

```
public string Container { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Entity

The entity to upload (file or folder)

#### Declaration

```
public string Entity { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Recursive

True if subdirectories should also be sent; otherwise false.

#### Declaration

```
public bool Recursive { get; set; }
```

#### Property Value

## Type Description

[bool](#)

### Remarks

Not applicable is [Entity](#) is not a folder. Only for [Type](#) = 2.

## Type

The type of the upload.

### Declaration

```
public int Type { get; set; }
```

### Property Value

## Type Description

[int](#)

### Remarks

Possible types are: 0 (DSFIN-VK (Json)), 1 (DSFIN-VK (Csv)), 2 Backup



# Class User

The user for a document.

## Inheritance

[object](#)

User

## Implements

[IEquatable<User>](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
[Serializable]  
public class User : IEquatable<User>
```

## Constructors

### User()

Constructor.

### Declaration

```
public User ()
```

### User(string, string, string, string, DateTimeOffset?)

Constructor.

### Declaration

```
public User(string id, string caption, string firstName = null, string lastName = null, DateTimeOffset? dateOfEntry = null)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	id	The id of the user.
<a href="#">string</a>	caption	The caption / name of the user.
<a href="#">string</a>	firstName	The first name of the user.
<a href="#">string</a>	lastName	The last name of the user.
<a href="#">DateTimeOffset?</a>	dateOfEntry	The date of the entry of the user.

## Properties

### Caption

The caption / name of the user.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Caption { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### DateOfEntry

The entry date for the user in the master data table.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DateTimeOffset? DateOfEntry { get; set; }
```

#### Property Value

Type	Description
------	-------------

[DateTimeOffset?](#)

#### FirstName

The first name of the user.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string FirstName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Id

The id of the user.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Id { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### LastName

The last name of the user.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string LastName { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### TaxNumber

The personal tax number of the operator.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string TaxNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Methods

#### Equals(User)

Indicates whether the current object is equal to another object of the same type.

#### Declaration

```
public bool Equals(User other)
```

#### Parameters

Type Name	Description
<a href="#">User</a> other	An object to compare with this object.

#### Returns

Type	Description
<a href="#">bool</a> <a href="#">true</a>	if the current object is equal to the <code>other</code> parameter; otherwise, <a href="#">false</a> .

#### Implements

[IEquatable<T>](#)

# Class Vat

Represents the value added tax for document and document positions.

## Inheritance

[object](#)

Vat

## Implements

[ICloneable](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class Vat : ICloneable
```

## Properties

### Caption

The caption for this tax item in country specific language.

#### Declaration

```
public string Caption { get; set; }
```

#### Property Value

### Type Description

[string](#)

### Caption\_EN

The caption for this tax item in english.

#### Declaration

```
public string Caption_EN { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SkipVatPercentageValidation

if true the percentage validation for this vat entry will be skipped default value is false

#### Declaration

```
[Required]
public bool SkipVatPercentageValidation { get; set; }
```

**Property Value**

### **Type Description**

[bool](#)

### **ValidFrom**

defines the start date from when the vat object is valid default value is [MinDate](#)

### **Declaration**

```
[Required]
public DateTime ValidFrom { get; set; }
```

**Property Value**

### **Type Description**

[DateTime](#)

### **ValidTo**

defines the end date from when the vat object is valid default value is [MaxDate](#)

### **Declaration**

```
[Required]
public DateTime ValidTo { get; set; }
```

**Property Value**

### **Type Description**

[DateTime](#)

### **VatIdentification**

The vat identification number.

### **Declaration**

```
[Required]
public int VatIdentification { get; set; }
```

**Property Value**

### **Type Description**

[int](#)

### **VatPercents**

The percentage for this item.

### **Declaration**

```
[Required]
public List<decimal> VatPercents { get; set; }
```

**Property Value**

### **Type Description**

[List<decimal>](#)

## Methods

### Clone()

Clones the current object.

#### Declaration

```
public object Clone()
```

#### Returns

Type	Description
------	-------------

<a href="#">object</a>	A copy of this object.
------------------------	------------------------

### GetGrossValue(decimal, decimal)

Returns the gross value out of the given net value.

#### Declaration

```
public static decimal GetGrossValue(decimal vatPercent1, decimal netValue)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">decimal</a>	vatPercent1	The percentage for calculation.
-------------------------	-------------	---------------------------------

<a href="#">decimal</a>	netValue	The net value for calculation.
-------------------------	----------	--------------------------------

#### Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The calculated gross value.
-------------------------	-----------------------------

### GetGrossValueFromTaxValue(decimal, decimal)

#### Declaration

```
public static decimal GetGrossValueFromTaxValue(decimal vatPercent1, decimal taxValue)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">decimal</a>	vatPercent1	
-------------------------	-------------	--

<a href="#">decimal</a>	taxValue	
-------------------------	----------	--

#### Returns

Type	Description
------	-------------

<a href="#">decimal</a>	
-------------------------	--

### GetNetValue(decimal, decimal)

Returns the net value out of the given gross value.

## Declaration

```
public static decimal GetNetValue(decimal vatPercent1, decimal grossValue)
```

## Parameters

Type	Name	Description
<a href="#">decimal</a>	vatPercent1	The percentage for calculation.
<a href="#">decimal</a>	grossValue	The gross value for calculation.

## Returns

Type	Description
<a href="#">decimal</a>	The calculated net value.

## GetNetValueFromTaxValue(decimal, decimal)

### Declaration

```
public static decimal GetNetValueFromTaxValue(decimal vatPercent1, decimal taxValue)
```

### Parameters

Type	Name	Description
<a href="#">decimal</a>	vatPercent1	
<a href="#">decimal</a>	taxValue	

### Returns

Type	Description
<a href="#">decimal</a>	

## GetTaxValueFromGrossValue(decimal, decimal)

Returns the tax value out of the given values.

### Declaration

```
public static decimal GetTaxValueFromGrossValue(decimal vatPercent1, decimal grossValue)
```

### Parameters

Type	Name	Description
<a href="#">decimal</a>	vatPercent1	The percentage for calculation.
<a href="#">decimal</a>	grossValue	The gross value for calculation.

### Returns

Type	Description
<a href="#">decimal</a>	The calculated tax value.

## GetTaxValueFromNetValue(decimal, decimal)

Returns the tax value out of the given values.

#### Declaration

```
public static decimal GetTaxValueFromNetValue(decimal vatPercent1, decimal netValue)
```

#### Parameters

Type	Name	Description
<a href="#">decimal</a>	vatPercent1	The percentage for calculation.
<a href="#">decimal</a>	netValue	The net value for calculation.

#### Returns

Type	Description
<a href="#">decimal</a>	The calculated tax value.

#### ToString()

Returns a string that represents the current object.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
<a href="#">string</a>	A string that represents the current object.

#### Overrides

[object.ToString\(\)](#)

#### Implements

[ICloneable](#)



# Namespace RetailForce.Fiscalisation.Model.AuditLog

## Classes

### [AuditLogEntry](#)

Represents an audit log entry.

## Enums

### [LogEntryType](#)

The type of the audit log entry. Required in the following fiscal countries Denmark - Event Log France - Infocert NF525: Journal des Evènements Techniques (JET) - Technical Event Log

## Class AuditLogEntry

Represents an audit log entry.

### Inheritance

[object](#)  
[StorageRecord](#)  
[AuditLogEntry](#)

### Implements

[IEquatable<StorageRecord>](#)  
[IEquatable<AuditLogEntry>](#)

### Inherited Members

[StorageRecord.Data](#)  
[StorageRecord.RecordDateTime](#)  
[StorageRecord.Signature](#)  
[StorageRecord.Algorithm\(\)](#)  
[StorageRecord.Equals\(StorageRecord\)](#)  
[StorageRecord.ResolveDataStorageRecord<TData>\(string, bool, bool, bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.AuditLog](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class AuditLogEntry : StorageRecord, IEquatable<StorageRecord>, IEquatable<AuditLogEntry>
```

### Remarks

Please take care also to change the dto in fiscal service client!

## Constructors

### AuditLogEntry()

Constructor.

### Declaration

```
public AuditLogEntry()
```

### AuditLogEntry(Guid, DateTime?, LogEntryType, string, Guid?, User, decimal?, string)

Constructor.

### Declaration

```
public AuditLogEntry(Guid uniqueClientId, DateTime? auditDateTime, LogEntryType logEntryType, string message = "", Guid? documentGuid = null, User user = null, decimal? amount = 1
```

### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id this audit log entry belongs. This property will not be stored to the log file.
<a href="#">DateTime?</a>	auditDateTime	The datetime of the audit log entry. If null <a href="#">Now</a> is used.
<a href="#">LogEntryType</a>	logEntryType	The type of the audit log entry.
<a href="#">string</a>	message	The message of the audit log.
<a href="#">Guid?</a>	documentGuid	A possible connection to a document of the audit log entry.
<a href="#">User</a>	user	The user (if applicable) of the audit log entry.
<a href="#">decimal?</a>	amount	A possible amount for the audit log entry.
<a href="#">string</a>	identifier	A possible identifier for the audit log entry.

## Fields

### ValidCharPattern

### Declaration

```
public const string ValidCharPattern = "[^\\da-zA-Z\\(\\)\\[\\]\\?\\!\\.\\-\\,\\;\\:\\&\\$%#*=]"
```

### Field Value

### Type Description

[string](#)

## Properties

### Amount

The amount for this audit log

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public decimal? Amount { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

#### DocumentGuid

A possible connection to a document of the audit log entry.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Guid? DocumentGuid { get; set; }
```

#### Property Value

##### Type Description

[Guid?](#)

#### Identifier

An additional identifier for the audit log entry

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Identifier { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### Remarks

Has to be set at

#### LogEntryType

The type of the audit log entry.

#### Declaration

```
public LogEntryType LogEntryType { get; set; }
```

#### Property Value

##### Type Description

[LogEntryType](#)

#### Message

The message of the audit log.

#### Declaration

```
public string Message { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### RecordId

The unique id of the record.

#### Declaration

```
public Guid RecordId { get; set; }
```

#### Property Value

##### Type Description

[Guid](#)

#### UniqueClientId

The unique client id this audit log entry belongs.

#### Declaration

```
public Guid UniqueClientId { get; set; }
```

#### Property Value

##### Type Description

[Guid](#)

#### Remarks

This property will not be stored to the log file.

#### User

The user (if applicable) of the audit log entry.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public User User { get; set; }
```

#### Property Value

#### Type Description

[User](#)

#### Methods

##### Equals(AuditLogEntry)

Indicates whether the current object is equal to another object of the same type.

#### Declaration

```
public bool Equals(AuditLogEntry other)
```

#### Parameters

Type	Name	Description
<a href="#">AuditLogEntry</a>	other	An object to compare with this object.

#### Returns

Type	Description
<a href="#">bool</a>	<a href="#">true</a> if the current object is equal to the <code>other</code> parameter; otherwise, <a href="#">false</a> .

##### GetData()

Method to get data property. Override in inherited class to get data in string notation.

#### Declaration

```
protected override string GetData()
```

#### Returns

#### Type Description

[string](#)

#### Overrides

[StorageRecord.GetData\(\)](#)

##### SetData(string)

Method to set data property. Override in inherited class to parse data if necessary.

#### Declaration

```
protected override void SetData(string data)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	data	The data to set.

#### Overrides

[StorageRecord.SetData\(string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>data</code> is set to null or <a href="#">Empty</a> .

#### Implements

[IEquatable<T>](#)  
[IEquatable<T>](#)

# Enum LogEntryType

The type of the audit log entry. Required in the following fiscal countries Denmark - Event Log France - Infocert NF525: Journal des Evènements Techniques (JET) - Technical Event Log

Namespace: [RetailForce.Fiscalisation.Model.AuditLog](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum LogEntryType
```

## Remarks

Number ranges:

- Document: 0-199
- Peripheral events: 200-399
- User related events 400-499
- Application events 500-699
- Masterdata events 700-899
- DataIntegrity events 900-999
- Fiscal events 1000-1499

## Fields

Name	Description
ApplicationAddWorkstation	adding of an input device / workstation FR: NF525 JET code: 126
ApplicationDeleteWorkstation	deletion / removal of an input device / workstation FR: NF525 JET code: 127
ApplicationEmergencyModeOff	Used to track deactivation of emergency- / degraded mode, return to normal operation (FR: end of degraded mode corresponds to a reconnection of the terminal causing the stop of the autonomous mode and the restart of the centralised/connected mode) DK: SAF-T EventCode: 13027 FR: NF525 JET code: 120
ApplicationEmergencyModeOn	Used to track activation of emergency- / degraded mode (FR: degraded mode corresponds to a disconnection of the terminal causing it to operate autonomously) DK: SAF-T EventCode: 13026 FR: NF525 JET code: 70
ApplicationFiscalMiddlewareUpdate	Used to track installation of a new version of the RetailForce Fiscal Middleware
ApplicationInitialize	Data initialization - may occur the first time the application / software is used FR: NF525 JET code: 260
ApplicationShutDown	Shutdown / stopping of the terminal / application DK: SAF-T EventCode: 13002 FR: NF525 JET code: 40
ApplicationStart	Start of the application DK: SAF-T EventCode: 13001 FR: NF525 JET code: 80
ApplicationUpdate	Used to track installation of a new (FR: major) version of the (POS-) application. DK: SAF-T EventCode: 13007 FR: NF525 JET code: 250

Name	Description
ApplicationUpdateMinor	Used to track installation of a new minor version of the (POS-) application. FR: NF525 JET code: 255
DataExportAccounting	Used when the application generates an exchange file for import into an accounting software FR: NF525 JET code: 180
DataExportGeneric	Used when exporting generic data (except: DataExportAccounting = 970), e.g. to stock management systems, or other third party applications/systems FR: NF525 JET code: 110
DataImportExternal	Used when importing data from a third party / external software FR: NF525 JET code: 140
DataIntegrityBackupDatabase	Used when a backup of the database is made FR: NF525 JET code: 230
DataIntegrityConsolidationComplete	Used when data are consolidated at a central system after the end of an emergency mode (after ApplicationEmergencyModeOff = 506) FR: NF525 JET code: 125
DataIntegrityDataRecovery	Only used to record data recovery when switching to a new system (e.g. in the event of a hardware failure, or planed due to exchange of hardware); attention - differs from DataIntegrityRestoreDatabase = 901! FR: NF525 JET code: 210
DataIntegrityFailure	Used when detecting an integrity failure in secured data (integrity is broken when secured data have been altered subsequentially) FR: NF525 JET code: 90
DataIntegrityForwardData	Used when data is forcedly forwarded to a central system (from an input device) FR: NF525 JET code: 123
DataIntegrityPurgeDatabase	Used when the database of the application is purged (e.g. due to insufficient memory), FR: attention - periodical closing and archiving of fiscal data MUST precede purge FR: NF525 JET code: 200
DataIntegrityPurgeEventLog	Used when the Event Log (FR: Technical Event Log) is purged, FR: attention - only "purgeable" events of the JET may be deleted and only after archiving of the old JET. FR: NF525 JET code: 205
DataIntegrityRestoreDatabase	Used when the database is restored with a previously made backup; attention: differs from DataIntegrityDataRecovery = 905! FR: NF525 JET code: 220
DataSequenceChange	Used when changing the continuous sequence management mode (change in numbering methods due to temporal or organisational changes) FR: NF525 JET code: 10
DataSequenceFailure	Used at detection of a break in the continuous sequence (Concerns the detection of the break in the continuous sequence except when changing the management mode managed by the event DataSequenceChange = 950) FR: NF525 JET code: 95
DocumentAbandonLongTermOrder	Used to track recorded supporting documents (long term order, note,...) that have been previously recorded / validated but for which no receipt has been issued FR: NF525 JET code: 324
DocumentCancelLine	Cancellation of an article line - applies to supporting documents prior to the transaction FR: NF525 JET code: 323

Name	Description
DocumentReprintLongTermOrder	Used to track reprints / duplicates of supporting documents (Long Term Order, note) FR: NF525 JET code: 155
DocumentReprintOther	Tracking of duplicated / reprinted documents DK: SAF-T EventCode: 13014
DocumentReprintPaymentConfirmation	Used to track reprints / duplicates of payment confirmations FR: NF525 JET code: 156
DocumentResume	Used when a previously suspended transaction is resumed DK: SAF-T EventCode: 13011
DocumentSuspend	Used to track suspended / parked documents (recording in progress but not yet validated / issued) DK: SAF-T EventCode: 13010 FR: NF525 JET code: 320
DocumentTraceUnprintedLongTermOrder	Used to track unprinted supporting documents (long term order, note,...) FR: NF525 JET code: 329
DocumentTrainingModeOff	Stop using training- / demo-mode DK: SAF-T EventCode: 13024 FR: NF525 JET code: 105
DocumentTrainingModeOn	Start using training- / demo-mode DK: SAF-T EventCode: 13023 FR: NF525 JET code: 100
DocumentTypeCustomerOrder	Customer order
DocumentTypeDelivery	Delivery note - document that lists all the goods included in a delivery, often also referred to as dispatch note, or goods receipt. DK: SAF-T EventCode: 13016
DocumentTypeInventory	Inventory
DocumentTypeInvoice	Invoice, sales document
DocumentTypeLongTermOrder	Use for supporting document: Long Term Order in Germany, "note (bill)" in France, mostly in gastronomy - e.g. kitchen slip, table order
DocumentTypeNullReceipt	Receipt with sum = 0; used for Austrian Cash Register Security Ordinance "Nullbeleg"
DocumentTypeOpeningBalance	Opening Balance of the cash register
DocumentTypeOther	Other / own document types not covered by codes 100 - 119 and 121 - 139 (DocumentTypeMiscellaneousNonFiscal) DK: SAF-T EventCode: 13018
DocumentTypePayIn	Record a pay-in to the cash register - e.g. when change is deposited in the cash drawer
DocumentTypePayOut	Record a pay-out from the cash register - e.g. when taking money out of the cash drawer
DocumentTypePaymentConfirmation	Payment confirmation - used to confirm receiving a payment for certain service or goods
DocumentTypeProforma	Proforma invoice - preliminary bill or estimated invoice, can be used to propose the details of the upcoming transaction. Often used to show the value of a consignment of goods. DK: SAF-T EventCode: 13015

Name	Description
DocumentTypePurchase	Purchase document type
DocumentTypeReturn	document issued for returning of goods / return(s) of articles DK: SAF-T EventCode: 13013 FR: NF525 JET code: 326
DocumentTypeSales	Sales document, cash receipt (mapped to DocumentType [0] = Receipt in RF DocumentObjectModel v 1.1.0) DK: SAF-T EventCode: 13012
DocumentTypeTraining	Document has been created using training- / demo-mode. DK: SAF-T EventCode: 13017
DocumentTypeVoid	Used to void a previously issued document DK: SAF-T EventCode: 13028 FR: NF525 JET code: 190
DocumentTypeWithdrawal	Cash skimming - special type of pay-out (withdraw money from the cash register) DK: SAF-T EventCode: 13019
DocumentUpdateLine	Used to track updates / changes to offered articles (lines) FR: NF525 JET code: 328
DocumentUpdateLongTermOrder	Used to track updates to supporting documents (long term order, note,...) FR: NF525 JET code: 327
DocumentUpdatePayment	Used to track changing the method of payment after issuing the receipt FR: NF525 JET code: 420
DocumentUpdateTable	Used to track change of table (in gastronomy / catering industry) already assigned to a supporting document (long term order, note,...) FR: NF525 JET code: 430
DocumentVoidLine	Cancellation(s) of article(s) after order FR: NF525 JET code: 325
DrawerClose	Used to record closing of the cash drawer DK: SAF-T EventCode: 13006
DrawerOpen	Used to record opening of the cash drawer DK: SAF-T EventCode: 13005
FiscalArchiveIntermediate	Used when moving files to archive FR: NF525 JET code: 20
FiscalArchiveYear	Used when end of year / end of fiscal year is sent to archive FR: NF525 JET code: 30
FiscalAudit	Used in case that the application allows the creation of a "Tax-Auditor" user profile; FR: Start/end of tax audit, This event is used to track the first login of this user FR: NF525 JET code: 280
FiscalAuditFileTransfer	Used to document file transfer at the request of the tax administration FR: NF525 JET code: 295
FiscalJournalExport	Used when exporting the archived journal data to an external medium FR: NF525 JET code: 440
FiscalPeriodClosingDay	Used when creating a daily closing / Z report DK: SAF-T EventCode: 13009 FR: NF525 JET code: 50
FiscalPeriodClosingMonth	Used when creating a monthly closing FR: NF525 JET code: 50



Name	Description
FiscalPeriodClosingYear	Used when creating an annual closing of closing of the fiscal year FR: NF525 JET code: 60
FiscalReportClosingDay	Used when creating an intermediary closing / X report DK: SAF-T EventCode: 13008
FiscalSignatureUpdateKey	Used to track changes in the key pair of the electronic signature FR: NF525 JET code: 450
MasterDataItemPriceChange	Used to track price changes DK: SAF-T EventCode: 13021
MasterDataItemPriceLookup	Used to track look-up of prices DK: SAF-T EventCode: 13022
MasterDataItemUpdateCompany	Used to track any changes in the data related to the taxable company identification (e.g. changes in: address, company ID, company name, FR: SIRET-No,...) FR: NF525 JET code: 410
Other	Used to other, custom events DK: SAF-T EventCode: 13999
PrinterAvailable	
PrinterUnavailable	Used to track unavailability of printer FR: NF525 JET code: 150
TransferOwnership	Used in case of changes of entity owning and using the application (e.g. modification of the company ID, FR: SIREN) FR: NF525 JET code: 128
UserLogin	Used to track login of a user DK: SAF-T EventCode: 13003
UserLogout	Used to track when a user logges out DK: SAF-T EventCode: 13004
UserRightsChange	Used to track when user rights changed (FR: Any change in user rights, profiles, types impacting certified features must be traced by this event) FR: NF525 JET code: 130

# Namespace RetailForce.Fiscalisation.Model.Document

## Classes

### [Discount](#)

Represents a discount of a position.

### [Document](#)

Represents a fiscal document.

### [DocumentExtension](#)

### [DocumentPayment](#)

Payment position of the document.

### [DocumentPositionBase](#)

Base class for all positions.

### [DocumentPositionBooking](#)

Represents a booking position. A booking position can be used for booking values (instead of items).

### [DocumentPositionItem](#)

One position of one document. Document positions can have multiple types.

### [DocumentPositionItemBase](#)

Base class for item and subitem.

### [DocumentPositionReference](#)

A document position reference.

### [DocumentPositionSubItem](#)

Represents a sub item (like a set)

### [DocumentPositionSubTotal](#)

Subtotal position.

### [DocumentPositionText](#)

Represents a text position (or barcode position).

### [DocumentPositionTotal](#)

Total position. Must be the last position.

### [DocumentPositionTypeExtension](#)

### [DocumentPositionVatPosition](#)

Base class for all positions having vat.

### [DocumentReference](#)

A document reference used for referencing other documents (when canceling, linking, etc.).

### **DocumentTaxPosition**

Represents a tax position (summary for all tax items on a document).

### **DocumentValidationError**

Represents a document validation error.

### **QuantityUnit**

Represents a quantity unit of a position.

### **StoredDocument**

Represents a class containing the [Document](#), the [FiscalResponse](#) and the closing identifier.

## **Interfaces**

### **IBusinessTransactionTypePosition**

Interface for all positions containing a business transaction type.

### **IDiscountablePosition**

Represents a position which is discountable.

### **IVatPosition**

Interface for all positions having vat.

## **Enums**

### **AutomaticVatCalculation**

Flag to inform the fiscal module that the net or gross value should be calculated by the fiscal system.

### **BarcodeType**

Bar code types.

### **DiscountType**

The type of the discount.

### **DocumentLevel**

The level of the error in the document.

### **DocumentPositionType**

Represents the possible types of a document position.

### **DocumentType**

The type of the document.

### **ItemTaxType**

### **PayOutType**

The type of the payout (only in combination with business transaction type payout).

### **PaymentType**

The type of the payment.

**ReferenceType**

The reference type of the document (position) reference.

**ReturnReasonType**

The reason for the return.

# Enum AutomaticVatCalculation

Flag to inform the fiscal module that the net or gross value should be calculated by the fiscal system.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum AutomaticVatCalculation
```

## Fields

Name	Description
GrossValueCalculation	Automatic calculation of gross value and tax value. At least net value and vat percent/identification must be set.
NetValueCalculation	Automatic calculation of net value and tax value. At least gross value and vat percent/identification must be set.
NoCalculation	No automatic vat calculation, missing values result in validation error.

# Enum BarcodeType

Bar code types.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum BarcodeType
```

## Fields

Name	Description
------	-------------

Code128	
---------	--

Ean13	
-------	--

Ean8	
------	--

# Class Discount

Represents a discount of a position.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

Discount

## Inherited Members

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]
public class Discount : DocumentValidationBase
```

## Properties

### Caption

The name of the discount.

#### Declaration

```
public string Caption { get; set; }
```

#### Property Value

### Type Description

[string](#)

### DiscountOrder

The order of the discount.

#### Declaration

```
public int DiscountOrder { get; set; }
```

#### Property Value

### Type Description

[int](#)

## Remarks

This is the order of the discount calculation. First calculated discount is 0.

## DiscountValue

The calculated value of the discount.

## Declaration

```
[Required]  
public decimal DiscountValue { get; set; }
```

## Property Value

### Type Description

[decimal](#)

## Remarks

The calculated value means a discount if sign is positive. 2 means a discount of 2 and -2 means an extra charge of 2. The DiscountValue will be calculated at [Discount](#) with 4 decimal places.

## DocumentLevel

The validation level for this element.

## Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

## Property Value

### Type Description

[DocumentLevel](#)

## Overrides

[DocumentValidationBase.DocumentLevel](#)

## Identifier

An additional identifier for the discount (can be used for instance for grouping of discounts to discount types).

## Declaration

```
public string Identifier { get; set; }
```

## Property Value

### Type Description

[string](#)

## PromotionKeys

List of according promotion id's if applicable.

## Declaration

```
public List<string> PromotionKeys { get; set; }
```

## Property Value

### Type Description



## Type Description

[List<string>](#)

### Remarks

This list can be used to store one more according promotion id's to the discount.

This list is optional.

### Type

The type of the discount.

### Declaration

```
[Required]
public DiscountType Type { get; set; }
```

### Property Value

## Type Description

[DiscountType](#)

### TypeValue

The type value of the discount.

### Declaration

```
public decimal TypeValue { get; set; }
```

### Property Value

## Type Description

[decimal](#)

### Remarks

The type value corresponds to the [Type](#) of the discount.

- Is the [Type](#) = [Discount](#) then a [TypeValue](#) of 10 has a meaning of 10 percent.
- Is the [Type](#) = [Allowance](#) then a [TypeValue](#) of 10 has a meaning of 10 eur (if eur is the currency). The type value is always seen as a discount if sign of type value is positive. This means that a type value of 10 represents a discount of 10 percent (if type is percentage) and a type value of -10 represents an extra charge of 10 percent.

## Methods

### Revert()

Reverts the discount (turns all values negative)

### Declaration

```
public void Revert()
```

### ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

### Returns

**Type****Description**

[List<DocumentValidationError>](#) A list of [DocumentValidationError](#) objects.

**Overrides**

RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()

# Enum DiscountType

The type of the discount.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum DiscountType
```

## Remarks

The type of the discount can be a value or percentage.

## Fields

Name	Description
------	-------------

Allowance	Represents a value discount.
-----------	------------------------------

Discount	Represents a percentage discount.
----------	-----------------------------------

# Class Document

Represents a fiscal document.

## Inheritance

[object](#)  
[ValidationBase<DocumentValidationError>](#)  
[ValidationPropertyBase<DocumentValidationError>](#)  
[DocumentValidationBase](#)  
Document

## Inherited Members

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)  
[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)  
[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public sealed class Document : DocumentValidationBase
```

## Constructors

### Document()

Constructor.

### Declaration

```
public Document()
```

### Document(FiscalResponse)

Constructor.

### Declaration

```
public Document(FiscalResponse response)
```

## Parameters

Type	Name	Description
<a href="#">FiscalResponse</a>	response	A <a href="#">FiscalResponse</a> object representing the fiscal response for starting a transaction.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>response</code> parameter is set to null.

## Fields

### CLOSING\_CLOSEMONTH

#### Declaration

```
public const string CLOSING_CLOSEMONTH = "CLOSEMONTH"
```

#### Field Value

#### Type Description

[string](#)

### SmallAmountInvoiceMaxAmount

#### Declaration

```
public const int SmallAmountInvoiceMaxAmount = 250
```

#### Field Value

#### Type Description

[int](#)

### VoucherIdFieldName

#### Declaration

```
public const string VoucherIdFieldName = "VoucherId"
```

#### Field Value

#### Type Description

[string](#)

## Properties

### AccountingDate

The accounting date described a possible accounting date for this document in the accounting.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public DateTimeOffset? AccountingDate { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset?</a>	

#### Remarks

The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

#### AdditionalFields

Additional fields for the document.

#### Declaration

```
public Dictionary<string, string> AdditionalFields { get; set; }
```

#### Property Value

Type	Description
<a href="#">Dictionary&lt;string, string&gt;</a>	

#### AllocationGroups

The allocation group for the document.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public List<string> AllocationGroups { get; set; }
```

#### Property Value

Type	Description
<a href="#">List&lt;string&gt;</a>	

#### Remarks

Country specific implementation:

- DE (Germany): used for marking tables on orders and receipts.

#### AllowedVatDeviation

Represents the absolute allowed vat deviation.

#### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]
public decimal AllowedVatDeviation { get; set; }
```

#### Property Value

Type	Description
<a href="#">decimal</a>	

#### Remarks

Default: 0. Can be set to avoid vat calculation problems. Please use carefully. Settings this value to a high value disables vat calculation check!

Example: vat deviation of 0.05 allows 5 cent deviation between netValue + taxValue = grossValue (+-0.05).

#### ApplicationVersion

The version of the software which is sending the document (pos software version).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string ApplicationVersion { get; set; }
```

#### Property Value

Type	Description
<a href="#">string</a>	

#### AutomaticVatCalculation

Flag to inform the fiscal module that the net or gross value should be calculated by the fiscal system.

#### Declaration

```
public AutomaticVatCalculation AutomaticVatCalculation { get; set; }
```

#### Property Value

Type	Description
<a href="#">AutomaticVatCalculation</a>	

#### Remarks

Default: AutomaticVatCalculation.NoCalculation Information: Using gross value calculation, gross value will be calculated to 2 decimal places.

#### BookDate

The storage date of the document.

#### Declaration

```
[Required]
public DateTimeOffset BookDate { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

#### Remarks

The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

#### CancellationDocument

True if this document cancels another document; otherwise false.

#### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]
public bool CancellationDocument { get; set; }
```

#### Property Value

Type	Description
<a href="#">bool</a>	

#### Remarks

If this property is set to true the document reference must be set (with [ReferenceType Cancellation](#)).

#### CreateDate

The creation date of the document. Must be set when the document was initially created.

#### Declaration

```
[Required]
public DateTimeOffset CreateDate { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

#### Remarks

The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

#### CustomerCount

The count of customers for this document (for instance in hospitality the number of guests on one receipt/table).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public int? CustomerCount { get; set; }
```

#### Property Value

Type	Description
<a href="#">int?</a>	

#### DeliveryPrintCount

Number of printouts of intermediate orders (e.g.: table orders, or kitchen/bar printout)

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
[Obsolete]
public int? DeliveryPrintCount { get; set; }
```

#### Property Value

Type	Description
<a href="#">int?</a>	

#### DocumentGuid

The global unique identification of the document.

#### Declaration

```
public Guid DocumentGuid { get; set; }
```

#### Property Value

Type	Description
<a href="#">Guid</a>	

#### Remarks

Not required, if not set it will be automatically set by the fiscal system. You can set this guid by your decision, it would be best to have a link to your transaction in your system (if possible). If you don't have Guid (UUID) in your system, just create a new random one.

#### DocumentId

The unique identification of the document (over all terminals in organization).

#### Declaration

```
public string DocumentId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Remarks

Should be continuous and unique identification of all documents. required, max length = 40.

Must not contain characters which are invalid for path in file system.

#### DocumentLevel

The validation level for this element.

#### Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

#### Property Value

Type	Description
<a href="#">DocumentLevel</a>	

#### Overrides

[DocumentValidationBase.DocumentLevel](#)

#### DocumentNumber

The number of the document (of the external system). Must not be unique over all terminals in the organization.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string DocumentNumber { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Remarks

In the normal case it represents the document number of the local system without document type and other values.

#### DocumentNumberSeries

The series for the document number (caption/short caption).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string DocumentNumberSeries { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### DocumentReference

Reference to another document.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DocumentReference DocumentReference { get; set; }
```

#### Property Value

Type	Description
<a href="#">DocumentReference</a>	

#### DocumentType

The type of the document.

#### Declaration

```
[Required]  
public DocumentType DocumentType { get; set; }
```

#### Property Value

Type	Description
<a href="#">DocumentType</a>	

#### DocumentTypeCaption

The name of the document type. Better description of the document type.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string DocumentTypeCaption { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Remarks

For instance you can have to different types of document with the document type: Receipt. With this property it is possible to store this information (text). This property can be also filled with language specific text (so "Beleg" for austria for example).

## FiscalAdditionalFields

### Declaration

```
[JsonIgnore]
public ReadOnlyDictionary<string, object> FiscalAdditionalFields { get; }
```

### Property Value

Type	Description
------	-------------

<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	
--	--

## FiscalDocumentNumber

This property must be set before storing or canceling the document with the return values of fiscal response of CreateDocument.

### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]
public int FiscalDocumentNumber { get; set; }
```

### Property Value

#### Type Description

[int](#)

### Remarks

If you use constructor Document(FiscalResponse) it will be set by the constructor.

## FiscalDocumentRevision

This property must be set before storing or canceling the document with the return values of fiscal response of CreateDocument.

### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]
public int FiscalDocumentRevision { get; set; }
```

### Property Value

#### Type Description

[int](#)

### Remarks

If you use constructor Document(FiscalResponse) it will be set by the constructor.

## FiscalDocumentStartTime

This property must be set before storing or canceling the document with the return values of fiscal response of CreateDocument.

### Declaration

```
[JsonProperty("FiscalDocumentStartTime", NullValueHandling = NullValueHandling.Ignore)]
public long? FiscalDocumentStartTime { get; set; }
```

### Property Value

#### Type Description

[long?](#)

### Remarks

If you use constructor Document(FiscalResponse) it will be set by the constructor.

## FiscalResponse

The fiscal response for this document when signed by fiscalisation unit.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public FiscalResponse FiscalResponse { get; }
```

### Property Value

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	
--------------------------------	--

### Remarks

DO NOT SET THIS PROPERTY EXCEPT AFTER SIGNING IN THE APPROPRIATE MODULE.

## IsTraining

True if this document is a training document; otherwise false.

### Declaration

```
[Required]
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]
public bool IsTraining { get; set; }
```

### Property Value

#### Type Description

[bool](#)



## ModelVersion

Returns the version of the document model structure.

### Declaration

```
public string ModelVersion { get; }
```

### Property Value

### Type Description

[string](#)

### Notes

Additional notes for the document (header notes). Maximum: 255 characters.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Notes { get; set; }
```

### Property Value

### Type Description

[string](#)

### Partner

The partner for the document. A partner can be for instance a customer, a supplier, etc.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Partner Partner { get; set; }
```

### Property Value

### Type Description

[Partner](#)

### PaymentTerms

The payment terms for the document.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public PaymentTerms PaymentTerms { get; set; }
```

### Property Value

### Type Description

[PaymentTerms](#)

### Payments

The payments for the document.

### Declaration

```
public List<DocumentPayment> Payments { get; set; }
```

### Property Value

### Type Description

[List<DocumentPayment>](#)

### Remarks

Depending on the document type it is necessary to have payments attached or not.

### PositionCount

The count of the positions (including all positions, Booking, Item, Total).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public uint? PositionCount { get; set; }
```

### Property Value

### Type Description

[uint?](#)

### Remarks

If set it must correspond to the transferred number of positions; otherwise a validation error would occur.

### Positions

The positions for the document.

### Declaration

```
[Required]  
public List<DocumentPositionBase> Positions { get; set; }
```

### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">List&lt;DocumentPositionBase&gt;</a>	

#### Remarks

Positions can be of type:

- [ItemPosition](#)
- [TextPosition](#)
- [SubItemPosition](#)

#### PrintCount

The print count for this document.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
[Obsolete]
public int? PrintCount { get; set; }
```

#### Property Value

#### Type Description

[int?](#)

#### Remarks

In several countries it is necessary to store and update the print count for a document (eg. France, Denmark). This number is the number of print outs at the initial transaction / document creation.

#### ProcessStartDate

The date of the first receipt for the whole process.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public DateTimeOffset? ProcessStartDate { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset?</a>	

#### Remarks

This field is used for long-term orders (eg. gastronomy) for print out in germany (mandatory if long-term orders are used). The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

#### ProformaPrintCount

Number of prints before saving the document (e.g.: Information printing in gastronomy)

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
[Obsolete]
public int? ProformaPrintCount { get; set; }
```

#### Property Value

#### Type Description

[int?](#)

#### RetailForceReceiptId

The unique RetailForce receipt id. Necessary for certain implementation of digital receipt.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string RetailForceReceiptId { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### SalesPerson

The salesperson for this transaction.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public User SalesPerson { get; set; }
```

#### Property Value

#### Type Description

[User](#)

#### ServicePeriodEnd

The end of the service period (especially for invoices).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public DateTimeOffset? ServicePeriodEnd { get; set; }
```

#### Property Value

## Type Description

[DateTimeOffset?](#)

### Remarks

The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

### ServicePeriodStart

The start of the service period (especially for invoices).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DateTimeOffset? ServicePeriodStart { get; set; }
```

### Property Value

## Type Description

[DateTimeOffset?](#)

### Remarks

The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

### TaxPositions

Represents a list of all tax positions (of document).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<DocumentTaxPosition> TaxPositions { get; set; }
```

### Property Value

## Type Description

[List<DocumentTaxPosition>](#)

### Remarks

You have to send either no position here or all tax positions of the document.

To get the tax positions from the document (if this property was not set) use [GetTaxPositions\(Document, bool\)](#).

Austria: Use this property to send the tax positions for the document to ensure not to have rounding problems with the dep.

### UniqueClientId

Represents the client for this document.

### Declaration

```
[Required]  
public Guid UniqueClientId { get; set; }
```

### Property Value

## Type Description

[Guid](#)

### Remarks

The client must be found in the current configuration and may not be [Empty](#).

### User

The user for this transaction.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public User User { get; set; }
```

### Property Value

## Type Description

[User](#)

## Methods

**CheckDocumentTypeBusinessTransactionType(Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>>, DocumentType, BusinessTransactionType, List<DocumentValidationError>, bool)**

Checks document and business transaction type mapping.

### Declaration

```
public static bool CheckDocumentTypeBusinessTransactionType(Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>> mappingDictionary, DocumentType documentType, Busi
```

### Parameters

Type	Name	Description
<a href="#">Dictionary&lt;DocumentType, Dictionary&lt;BusinessTransactionType, bool&gt;&gt;</a>	mappingDictionary	The dictionary with the mapping.
<a href="#">DocumentType</a>	documentType	The document type to check.
<a href="#">BusinessTransactionType</a>	businessTransactionType	The business transaction type to check.

Type	Name	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	errorList	A possible error list to add a validation error. If null no error is added.
<a href="#">bool</a>	useErrorList	True if error should be added to the list; otherwise false. If <code>errorList</code> is null no error is added independent of this setting.

#### Returns

Type	Description
<a href="#">bool</a>	True if an error would be added (independent from <code>useErrorList</code> and <code>errorList</code> ).

#### CreateStartDocument(Guid, DateTimeOffset?, User)

Creates a start document (used for initialization).

#### Declaration

```
public static Document CreateStartDocument(Guid uniqueClientId, DateTimeOffset? bookDate = null, User user = null)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	uniqueClientId	The unique client id of the client which should process the start document.
<a href="#">DateTimeOffset?</a>	bookDate	The book date of the start document, if null, <a href="#">Now</a> is used.
<a href="#">User</a>	user	A possible user for the start document. If omitted default values will be set. It is recommend to send this information.

#### Returns

Type	Description
<a href="#">Document</a>	A start document (used for initialization).

#### Remarks

Feel free to change all other properties of the document (for instance user).

#### GetDocumentTypeBusinessTransactionTypeSupport()

Returns default document type / business transaction type mapping.

#### Declaration

```
public static Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>> GetDocumentTypeBusinessTransactionTypeSupport()
```

#### Returns

Type	Description
<a href="#">Dictionary&lt;DocumentType, Dictionary&lt;BusinessTransactionType, bool&gt;&gt;</a>	Default document type / business transaction type mapping.

#### Remarks

If document type is set, but business transaction type dictionary is null -> all business transaction types are allowed. If document type is not found, all business transaction types are allowed. If document type and business transaction type is found, value must be true to be supported.

#### ToString()

Returns a string that represents the current object.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
<a href="#">string</a>	A string that represents the current object.

#### Overrides

[object.ToString\(\)](#)

#### ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

#### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of <a href="#">DocumentValidationError</a> objects.

#### Overrides

[RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

## Extension Methods

[DocumentExtension.GetBookingPositions\(Document\)](#)  
[DocumentExtension.GetBusinessTransactionTypePositions\(Document, BusinessTransactionType?\)](#)  
[DocumentExtension.GetItemAndBookingPositions\(Document\)](#)  
[DocumentExtension.GetItemPositions\(Document\)](#)  
[DocumentExtension.GetTaxPositions\(Document, ItemTaxType\)](#)  
[DocumentExtension.GetTaxPositions\(Document, bool\)](#)  
[DocumentExtension.GetTotalGrossAmount\(Document\)](#)  
[DocumentExtension.GetTotalNetAmount\(Document\)](#)  
[DocumentExtension.GetTotalTaxAmount\(Document\)](#)  
[DocumentExtension.GetVoucherIds\(Document\)](#)

# Class DocumentExtension

## Inheritance

[object](#)

DocumentExtension

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class DocumentExtension
```

## Methods

### GetBookingPositions(Document)

Returns all positions of type [DocumentPositionBooking](#).

#### Declaration

```
public static List<DocumentPositionBooking> GetBookingPositions(this Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to fetch the positions.

#### Returns

Type	Description
<a href="#">List&lt;DocumentPositionBooking&gt;</a>	

### GetBusinessTransactionTypePositions(Document, BusinessTransactionType?)

Returns all business type transaction positions.

#### Declaration

```
public static IEnumerable<IBusinessTransactionTypePosition> GetBusinessTransactionTypePositions(this Document document, BusinessTransactionType? businessTransactionType = null)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document where the positions are stored.
<a href="#">BusinessTransactionType?</a>	businessTransactionType	A filter to fetch only positions having this business transaction type. Optional.

#### Returns

Type	Description
<a href="#">IEnumerable&lt;IBusinessTransactionTypePosition&gt;</a>	All business type transaction positions.

#### Remarks

If document or document.Positions is null this method returns null.

### GetItemAndBookingPositions(Document)

Returns all positions of type [DocumentPositionItem](#) and [DocumentPositionBooking](#).

#### Declaration

```
public static List<DocumentPositionVatPosition> GetItemAndBookingPositions(this Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to fetch the positions.

#### Returns

Type	Description
<a href="#">List&lt;DocumentPositionVatPosition&gt;</a>	A list of type <a href="#">DocumentPositionVatPosition</a> representing all positions of type <a href="#">DocumentPositionItem</a> and <a href="#">DocumentPositionBooking</a> .

#### Remarks

This method does not include sub item positions.

### GetItemPositions(Document)

Returns all positions of type [DocumentPositionItem](#).

#### Declaration

```
public static List<DocumentPositionItem> GetItemPositions(this Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to fetch the positions.

#### Returns

Type	Description
<a href="#">List&lt;DocumentPositionItem&gt;</a>	

#### Remarks

This method does not include sub item positions.

### GetTaxPositions(Document, ItemTaxType)

The summary of the tax positions for the document for the given item tax type.

#### Declaration

```
public static List<DocumentTaxPosition> GetTaxPositions(this Document document, ItemTaxType taxType)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to fetch the positions.
<a href="#">ItemTaxType</a>	taxType	The item tax type to filter the tax positions.

#### Returns

Type	Description
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	A list of tax positions representing the tax of document grouped by vat rates.

### GetTaxPositions(Document, bool)

The summary of the tax positions for the document.

#### Declaration

```
public static List<DocumentTaxPosition> GetTaxPositions(this Document document, bool notUseTaxPositions = true)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	
<a href="#">bool</a>	notUseTaxPositions	

#### Returns

Type	Description
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	

### GetTaxPositions(IEnumerable<DocumentPositionVatPosition>)

The summary of the tax positions for the given positions.

#### Declaration

```
public static List<DocumentTaxPosition> GetTaxPositions(this IEnumerable<DocumentPositionVatPosition> positions)
```

#### Parameters

Type	Name	Description
<a href="#">IEnumerable&lt;DocumentPositionVatPosition&gt;</a>	positions	

#### Returns

Type	Description
<a href="#">List&lt;DocumentTaxPosition&gt;</a>	

### GetTotalGrossAmount(Document)

Returns the total gross amount of the given document.

#### Declaration

```
public static decimal GetTotalGrossAmount(this Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to evaluate the total gross amount.

#### Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The total gross amount of the given document.
-------------------------	---

#### Remarks

The value is returned without regarding the document type.

#### GetTotalNetAmount(Document)

Returns the total net amount of the given document.

#### Declaration

```
public static decimal GetTotalNetAmount(this Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to evaluate the total net amount.
--------------------------	----------	--

#### Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The total net amount of the given document.
-------------------------	---

#### Remarks

The value is returned without regarding the document type.

#### GetTotalTaxAmount(Document)

Returns the total tax amount of the given document.

#### Declaration

```
public static decimal GetTotalTaxAmount(this Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to evaluate the total tax amount.
--------------------------	----------	--

#### Returns

Type	Description
------	-------------

<a href="#">decimal</a>	The total tax amount of the given document.
-------------------------	---

#### Remarks

The value is returned without regarding the document type.

#### GetVoucherIds(Document)

Returns all voucher id's for the document (including id's of booking elements, not only payments).

#### Declaration

```
public static List<string> GetVoucherIds(this Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Document</a>	document	The document to get all voucher id's.
--------------------------	----------	---------------------------------------

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;string&gt;</a>	All voucher id's for the document (including id's of booking elements, not only payments).
------------------------------------	--



# Enum DocumentLevel

The level of the error in the document.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum DocumentLevel
```

## Fields

Name	Description
Header	The validation error level is at document level header.
Payment	The validation error level is at document level payment.
Position	The validation error level is at document level position.

# Class DocumentPayment

Payment position of the document.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

DocumentPayment

## Inherited Members

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentPayment : DocumentValidationBase
```

## Properties

### AdditionalFields

Additional payment fields (electronic payment information for instance).

#### Declaration

```
public Dictionary<string, string> AdditionalFields { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">Dictionary&lt;string, string&gt;</a>	
--	--

### Amount

The amount of the payment in the currency of the cash register (not a foreign amount).

#### Declaration

```
[Required]  
public decimal Amount { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">decimal</a>	
-------------------------	--

## Remarks

You have to set the amount always (also if you send foreign amount).

## Caption

The caption of the payment.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Caption { get; set; }
```

## Property Value

### Type Description

[string](#)

## CreateDate

The create date of the payment if available.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DateTime? CreateDate { get; set; }
```

## Property Value

### Type Description

[DateTime?](#)

## CurrencyIsoCode

The iso code of the currency of the payment. This is ISO code 4217:2015.

## Declaration

```
public string CurrencyIsoCode { get; set; }
```

## Property Value

### Type Description

[string](#)

## DocumentLevel

The validation level for this element.

## Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

## Property Value

### Type Description

[DocumentLevel](#)

## Overrides

[DocumentValidationBase.DocumentLevel](#)

## ExternalIdentifier

Possibility for one or more external identifier for the calling software.

#### Declaration

```
public List<string> ExternalIdentifier { get; set; }
```

#### Property Value

##### Type Description

[List<string>](#)

#### ForeignAmount

The foreign amount of the payment.

#### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public decimal ForeignAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### ForeignAmountExchangeRate

The exchange rate to the cash register currency.

#### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public decimal ForeignAmountExchangeRate { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### PaymentTerminalReferenceId

Transaction Id from payment terminal when integrated with cash register and transaction id is stated on the sales receipt.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string PaymentTerminalReferenceId { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### PaymentType

Type of the payment. Required. Used to difference the payment.

#### Declaration

```
[Required]  
public PaymentType? PaymentType { get; set; }
```

#### Property Value

## Type Description

[PaymentType?](#)

### Remarks

This type is nullable due to backwards compatibility. Please send this information from up v1.0.

### SalesPerson

The salesperson for this position (if other salesperson than in document).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public User SalesPerson { get; set; }
```

### Property Value

## Type Description

[User](#)

### TaxValue

The vat value of the booking.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public decimal? TaxValue { get; set; }
```

### Property Value

## Type Description

[decimal?](#)

### UniqueReadablePaymentIdentifier

An unique id for the payment (used for instance for accounting interfaces, etc.).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string UniqueReadablePaymentIdentifier { get; set; }
```

### Property Value

## Type Description

[string](#)

### Remarks

Necessary if you want to use closing methods (actual stock, closing, cash difference, etc.). Validation error is not sent and SimpleCashPointClosing is activated.

### User

The user for this position (if other user than in document).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public User User { get; set; }
```

### Property Value

## Type Description

[User](#)

## VatIdentification

The value added tax for this position.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public int? VatIdentification { get; set; }
```

### Property Value

## Type Description

[int?](#)

## VatPercent

The percentage of the vat

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public decimal? VatPercent { get; set; }
```

### Property Value

## Type Description

[decimal?](#)

## Methods

### GetVoucherId()

Returns the voucher id of the additional fields collections.

### Declaration

```
public string GetVoucherId()
```

### Returns

Type	Description
------	-------------

<a href="#">string</a>	The voucher id of the additional fields collections.
------------------------	--

### Revert()

Reverts the payment (turns all values negative)

### Declaration

```
public void Revert()
```

### ToString()

Returns a string that represents the current object.

### Declaration

```
public override string ToString()
```

## Returns

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the current object.
------------------------	--

## Overrides

[object.ToString\(\)](#)

## ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

## Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

## Returns

Type	Description
------	-------------

<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of <a href="#">DocumentValidationError</a> objects.
---	--

## Overrides

`RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()`

## ValidateScale(uint)

Returns whether the scale of all amounts of the position is smaller or equal the given scale.

## Declaration

```
public bool ValidateScale(uint scale)
```

## Parameters

Type Name	Description
-----------	-------------

<a href="#">uint</a> scale	The maximum scale for all amounts of the position.
----------------------------	--

## Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the scale of all amounts is smaller or equal the given scale; otherwise false.
----------------------	--

# Class DocumentPositionBase

Base class for all positions.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionSubTotal](#)

[DocumentPositionText](#)

[DocumentPositionVatPosition](#)

## Inherited Members

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[ValidationBase<DocumentValidationError>.ValidateElement\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(DocumentJsonConverter))]  
[Serializable]  
public abstract class DocumentPositionBase : DocumentValidationBase
```

## Properties

### AdditionalFields

Additional position fields.

### Declaration

```
public Dictionary<string, string> AdditionalFields { get; set; }
```

### Property Value

Type	Description
<a href="#">Dictionary&lt;string, string&gt;</a>	

### CancellationPosition

True if this position cancels a position of another document; otherwise false.

### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public bool CancellationPosition { get; set; }
```



## Property Value

### Type Description

[bool](#)

## Remarks

Please ensure to set [PositionReference](#) with type [Cancellation](#) if setting this property to true.

## CreateDate

The create date of the position if available.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DateTime? CreateDate { get; set; }
```

## Property Value

### Type Description

[DateTime?](#)

## DocumentLevel

The validation level for this element.

## Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

## Property Value

### Type Description

[DocumentLevel](#)

## Overrides

[DocumentValidationBase.DocumentLevel](#)

## ExternalIdentifier

Possibility for one or more external identifier for the calling software. Not necessary for fiscalisation.

## Declaration

```
public List<string> ExternalIdentifier { get; set; }
```

## Property Value

### Type Description

[List<string>](#)

## FiscalAdditionalFields

## Declaration

```
[JsonIgnore]  
public ReadOnlyDictionary<string, object> FiscalAdditionalFields { get; }
```

## Property Value

**Type**

**Description**

Type	Description
<a href="#">ReadOnlyDictionary&lt;string, object&gt;</a>	

### PositionNumber

The number of the position in the position sequence.

#### Declaration

```
public int PositionNumber { get; set; }
```

#### Property Value

#### Type Description

[int](#)

### PositionReference

Referene to another document position.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DocumentPositionReference PositionReference { get; set; }
```

#### Property Value

Type	Description
<a href="#">DocumentPositionReference</a>	

#### Remarks

Must be set if the NetValue/GrossValue of the position is negative value.

### SalesPerson

The salesperson for this position (if other salesperson than in document).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public User SalesPerson { get; set; }
```

#### Property Value

#### Type Description

[User](#)

### Type

The type of the position. For possible types see [DocumentPositionType](#).

#### Declaration

```
public abstract DocumentPositionType Type { get; }
```

#### Property Value

Type	Description
<a href="#">DocumentPositionType</a>	

### User

The user for this position (if other user than in document).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public User User { get; set; }
```

#### Property Value

#### Type Description

[User](#)

#### Methods

##### Revert()

Reverts the position (turns all values negative)

#### Declaration

```
public abstract void Revert()
```

##### ToString()

Returns the string representation for this [DocumentPositionBase](#).

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The string representation for this <a href="#">DocumentPositionBase</a> .
------------------------	---

#### Overrides

[object.ToString\(\)](#)

##### ValidateScale(uint)

Returns whether the scale of all amounts of the position is smaller or equal the given scale.

#### Declaration

```
public abstract bool ValidateScale(uint scale)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">uint</a> scale	The maximum scale for all amounts of the position.
----------------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the scale of all amounts is smaller or equal the given scale; otherwise false.
----------------------	--

# Class DocumentPositionBooking

Represents a booking position. A booking position can be used for booking values (instead of items).

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

[DocumentPositionBooking](#)

## Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

## Inherited Members

[DocumentPositionVatPosition.VatIdentification](#)

[DocumentPositionVatPosition.VatPercent](#)

[DocumentPositionVatPosition.NetValue](#)

[DocumentPositionVatPosition.GrossValue](#)

[DocumentPositionVatPosition.TaxValue](#)

[DocumentPositionVatPosition.AccountingIdentifier](#)

[DocumentPositionVatPosition.ItemTaxType](#)

[DocumentPositionVatPosition.Revert\(\)](#)

[DocumentPositionVatPosition.ValidateScale\(uint\)](#)

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class DocumentPositionBooking : DocumentPositionVatPosition, IBusinessTransactionTypePosition, IVatPosition
```

## Remarks

You can use a booking for instance for a payin, payout, vouchers...

## Properties

## BusinessTransactionType

The type of this booking.

### Declaration

```
[Required]
public BusinessTransactionType BusinessTransactionType { get; set; }
```

### Property Value

Type	Description
<a href="#">BusinessTransactionType</a>	

## Caption

The caption of the booking.

### Declaration

```
[Required]
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string Caption { get; set; }
```

### Property Value

### Type Description

[string](#)

## Identifier

An additional identifier for the booking.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string Identifier { get; set; }
```

### Property Value

### Type Description

[string](#)

## PayOutType

The type of the payout when business transaction type = payout.

### Declaration

```
public PayOutType? PayOutType { get; set; }
```

### Property Value

Type	Description
<a href="#">PayOutType?</a>	

## Type

The type of the position. For possible types see [DocumentPositionType](#).

### Declaration

```
public override DocumentPositionType Type { get; }
```

### Property Value

Type	Description
------	-------------

[DocumentPositionType](#)

#### Overrides

[DocumentPositionBase.Type](#)

### Methods

#### GetVoucherId()

Returns the voucher id of the additional fields collections.

#### Declaration

```
public string GetVoucherId()
```

#### Returns

Type	Description
------	-------------

[string](#) The voucher id of the additional fields collections.

#### ToString()

Returns the string representation for this [DocumentPositionBase](#).

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

[string](#) The string representation for this [DocumentPositionBase](#).

#### Overrides

[DocumentPositionBase.ToString\(\)](#)

#### ValidateElement()

Validates the element with element specific validation and returns a list of validation errors.

#### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

#### Returns

Type	Description
------	-------------

[List<DocumentValidationError>](#) A list of RetailForce.Common.Validation.ValidationError objects.

#### Overrides

RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()

### Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

## **Extension Methods**

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)

# Class DocumentPositionItem

One position of one document. Document positions can have multiple types.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

[DocumentPositionItemBase](#)

[DocumentPositionItem](#)

## Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

[ICloneable](#)

[IDiscountablePosition](#)

## Inherited Members

[DocumentPositionItemBase.Quantity](#)

[DocumentPositionItemBase.QuantityUnit](#)

[DocumentPositionItemBase.ItemId](#)

[DocumentPositionItemBase.BaseNetValue](#)

[DocumentPositionItemBase.BaseGrossValue](#)

[DocumentPositionItemBase.BaseTaxValue](#)

[DocumentPositionItemBase.GTIN](#)

[DocumentPositionItemBase.BusinessTransactionType](#)

[DocumentPositionItemBase.ValidateScale\(uint\)](#)

[DocumentPositionVatPosition.VatIdentification](#)

[DocumentPositionVatPosition.VatPercent](#)

[DocumentPositionVatPosition.NetValue](#)

[DocumentPositionVatPosition.GrossValue](#)

[DocumentPositionVatPosition.TaxValue](#)

[DocumentPositionVatPosition.AccountingIdentifier](#)

[DocumentPositionVatPosition.ItemTaxType](#)

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

[Serializable]

```
public class DocumentPositionItem : DocumentPositionItemBase, IBusinessTransactionTypePosition, IVatPosition, ICloneable, IDiscountablePosition
```

## Properties

### BaseValue

Internal property not for external use.

### Declaration

[JsonIgnore]

```
public decimal BaseValue { get; }
```

### Property Value



## Type Description

[decimal](#)

### CostPrice

The cost price (per unit) for this item in this sale.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public decimal? CostPrice { get; set; }
```

#### Property Value

## Type Description

[decimal?](#)

#### Remarks

If not available send null value.

### Discounts

A list of all discounts for this position.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<Discount> Discounts { get; set; }
```

#### Property Value

## Type Description

[List<Discount>](#)

#### Remarks

At document validation this list will be sorted automatically by [DiscountOrder](#). The [DiscountOrder](#) must start with 0 value and must have continuous order.

### InHouse

True if the goods are consumed in house; otherwise false (takeaway).

#### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public bool InHouse { get; set; }
```

#### Property Value

## Type Description

[bool](#)

### ItemCaption

Represents the caption of the item.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public override string ItemCaption { get; set; }
```

#### Property Value

## Type Description

[string](#)

#### Overrides

[DocumentPositionItemBase.ItemCaption](#)

### ItemDateOfEntry

The entry date for the item in the master data table.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DateTimeOffset? ItemDateOfEntry { get; set; }
```

#### Property Value

Type	Description
------	-------------

[DateTimeOffset?](#)

### ItemGroupCaption

Represents the caption of the item group.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ItemGroupCaption { get; set; }
```

#### Property Value

### Type Description

[string](#)

### ItemGroupId

Represents the key of the item group.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ItemGroupId { get; set; }
```

#### Property Value

### Type Description

[string](#)

### ItemSerialNumber

Serial number for the item.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ItemSerialNumber { get; set; }
```

#### Property Value

### Type Description

[string](#)

### ItemShortCaption

Represents a short caption for the item (e.g. used for printing purposes on receipt print).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ItemShortCaption { get; set; }
```

#### Property Value

### Type Description

[string](#)

### SubItems

includes the sub items of an position if UseSubItemVatCalculation is true vat values have to be set otherwise the vat values from the position will be used and sub item vat values will be ignored

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<DocumentPositionSubItem> SubItems { get; set; }
```

#### Property Value

Type	Description
------	-------------

[List<DocumentPositionSubItem>](#)

### Type

The type of the position. For possible types see [DocumentPositionType](#).

#### Declaration

```
public override DocumentPositionType Type { get; }
```

## Property Value

Type	Description
<a href="#">DocumentPositionType</a>	

## Overrides

[DocumentPositionBase.Type](#)

## UseSubItemVatCalculation

True if the vat calculation of the sub items is taken and the vat of the parent item position is ignored; otherwise false.

## Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public bool UseSubItemVatCalculation { get; set; }
```

## Property Value

Type	Description
<a href="#">bool</a>	

## Remarks

Default is true. This flag only takes effect if property [SubItems](#) has at least one sub item.

## Value

Internal property not for external use.

## Declaration

```
[JsonIgnore]  
public decimal Value { get; }
```

## Property Value

Type	Description
<a href="#">decimal</a>	

## Methods

### Clone()

Clones the position to a new object.

## Declaration

```
public object Clone()
```

## Returns

Type	Description
<a href="#">object</a>	A <a href="#">DocumentPositionItem</a> object representing the copy of the actual position.

### Revert()

Reverts the position (turns all values negative)

## Declaration

```
public override void Revert()
```

## Overrides

[DocumentPositionItemBase.Revert\(\)](#)

### Tostring()

Returns the string representation for this [DocumentPositionItem](#).

## Declaration

```
public override string ToString()
```

## Returns

Type	Description
------	-------------

Type	Description
------	-------------

[string](#) The string representation for this [DocumentPositionItem](#).

#### Overrides

[DocumentPositionBase.ToString\(\)](#)

#### ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

#### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

#### Returns

Type	Description
------	-------------

[List<DocumentValidationError>](#) A list of [DocumentValidationError](#) objects.

#### Overrides

[RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

#### Exceptions

Type	Condition
------	-----------

[NotSupportedException](#) Thrown if a certain [DiscountType](#) is not supported.

#### Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

[ICloneable](#)

[IDiscountablePosition](#)

#### Extension Methods

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)

# Class DocumentPositionItemBase

Base class for item and subitem.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

[DocumentPositionItemBase](#)

[DocumentPositionItem](#)

[DocumentPositionSubItem](#)

## Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

## Inherited Members

[DocumentPositionVatPosition.VatIdentification](#)

[DocumentPositionVatPosition.VatPercent](#)

[DocumentPositionVatPosition.NetValue](#)

[DocumentPositionVatPosition.GrossValue](#)

[DocumentPositionVatPosition.TaxValue](#)

[DocumentPositionVatPosition.AccountingIdentifier](#)

[DocumentPositionVatPosition.ItemTaxType](#)

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.Type](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentPositionBase.ToString\(\)](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[ValidationBase<DocumentValidationError>.ValidateElement\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

[Serializable]

```
public abstract class DocumentPositionItemBase : DocumentPositionVatPosition, IBusinessTransactionTypePosition, IVatPosition
```

## Properties

### BaseGrossValue

The gross value (including tax) before discounts were calculated (without discounts and extra charges).

## Declaration

```
public decimal BaseGrossValue { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### BaseNetValue

The net value (excluding tax) before discounts were calculated (without discounts and extra charges).

#### Declaration

```
public decimal BaseNetValue { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### BaseTaxValue

The tax value of the position before discounts were calculated (without discounts and extra charges).

#### Declaration

```
public decimal BaseTaxValue { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

#### BusinessTransactionType

The type for this position. Default value is set to [Revenue](#).

#### Declaration

```
[Required]  
public BusinessTransactionType BusinessTransactionType { get; set; }
```

#### Property Value

Type	Description
------	-------------

[BusinessTransactionType](#)

#### GTIN

The global trade identification number for the item.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string GTIN { get; set; }
```

#### Property Value

##### Type Description

[string](#)

#### ItemCaption

Represents the caption of the item.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public virtual string ItemCaption { get; set; }
```

#### Property Value

## Type Description

[string](#)

## ItemId

The id of the item.

### Declaration

```
[Required]
public string ItemId { get; set; }
```

### Property Value

## Type Description

[string](#)

## Quantity

The quantity of the position.

### Declaration

```
[Required]
public decimal Quantity { get; set; }
```

### Property Value

## Type Description

[decimal](#)

## QuantityUnit

The quantity unit of the position.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public QuantityUnit QuantityUnit { get; set; }
```

### Property Value

## Type Description

[QuantityUnit](#)

## Methods

### Revert()

Reverts the position (turns all values negative)

### Declaration

```
public override void Revert()
```

### Overrides

[DocumentPositionVatPosition.Revert\(\)](#)

### ValidateScale(uint)

Returns whether the scale of all amounts of the position is smaller or equal the given scale.

### Declaration

```
public override bool ValidateScale(uint scale)
```

### Parameters

## Type Name

## Description

Type Name	Description
-----------	-------------

<a href="#">uint</a>	scale The maximum scale for all amounts of the position.
----------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the scale of all amounts is smaller or equal the given scale; otherwise false.
----------------------	--

#### Overrides

[DocumentPositionVatPosition.ValidateScale\(uint\)](#)

#### Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

#### Extension Methods

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)



# Class DocumentPositionReference

A document position reference.

## Inheritance

[object](#)

[ValidationBase](#)<[DocumentValidationError](#)>

[ValidationPropertyBase](#)<[DocumentValidationError](#)>

[DocumentValidationBase](#)

[DocumentReference](#)

DocumentPositionReference

## Implements

[IEquatable](#)<[DocumentReference](#)>

## Inherited Members

[DocumentReference.ReferenceType](#)

[DocumentReference.StoreNumber](#)

[DocumentReference.TerminalNumber](#)

[DocumentReference.DocumentType](#)

[DocumentReference.DocumentNumber](#)

[DocumentReference.DocumentNumberSeries](#)

[DocumentReference.FiscalDocumentNumber](#)

[DocumentReference.DocumentGuid](#)

[DocumentReference.DocumentId](#)

[DocumentReference.DocumentBookDate](#)

[DocumentReference.ReturnReasonType](#)

[DocumentReference.ReturnReasonText](#)

[DocumentReference.ToString\(\)](#)

[DocumentReference.Equals\(DocumentReference\)](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class DocumentPositionReference : DocumentReference, IEquatable<DocumentReference>
```

## Remarks

To use document position references it is not necessary to set document reference. When setting also document reference the document key must be equal to the document position reference.

## Properties

### DocumentLevel

The level for the document.

## Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">DocumentLevel</a>	
-------------------------------	--

## Overrides

[DocumentReference.DocumentLevel](#)

## PositionNumber

The position number of the referenced document position.

## Declaration

```
public int PositionNumber { get; set; }
```

## Property Value

Type	Description
------	-------------

<a href="#">int</a>	
---------------------	--

## Methods

### ValidateElement()

Validates the element with element specific validation and returns a list of validation errors.

## Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

## Returns

Type	Description
------	-------------

<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects.
---	--

## Overrides

[DocumentReference.ValidateElement\(\)](#)

## Implements

[IEquatable<T>](#)

## Extension Methods

[DocumentExtensions.GetReferenceInvoice\(DocumentReference\)](#)

# Class DocumentPositionSubItem

Represents a sub item (like a set)

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

[DocumentPositionItemBase](#)

[DocumentPositionSubItem](#)

## Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

## Inherited Members

[DocumentPositionItemBase.Quantity](#)

[DocumentPositionItemBase.QuantityUnit](#)

[DocumentPositionItemBase.ItemId](#)

[DocumentPositionItemBase.ItemCaption](#)

[DocumentPositionItemBase.BaseNetValue](#)

[DocumentPositionItemBase.BaseGrossValue](#)

[DocumentPositionItemBase.BaseTaxValue](#)

[DocumentPositionItemBase.GTIN](#)

[DocumentPositionItemBase.BusinessTransactionType](#)

[DocumentPositionItemBase.Revert\(\)](#)

[DocumentPositionItemBase.ValidateScale\(uint\)](#)

[DocumentPositionVatPosition.VatIdentification](#)

[DocumentPositionVatPosition.VatPercent](#)

[DocumentPositionVatPosition.NetValue](#)

[DocumentPositionVatPosition.GrossValue](#)

[DocumentPositionVatPosition.TaxValue](#)

[DocumentPositionVatPosition.AccountingIdentifier](#)

[DocumentPositionVatPosition.ItemTaxType](#)

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentPositionBase.ToString\(\)](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentPositionSubItem : DocumentPositionItemBase, IBusinessTransactionTypePosition, IVatPosition
```

## Properties

### Type

The type of the position. For possible types see [DocumentPositionType](#).

### Declaration

```
public override DocumentPositionType Type { get; }
```

### Property Value

Type	Description
<a href="#">DocumentPositionType</a>	

### Overrides

[DocumentPositionBase.Type](#)

## Methods

### ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of <a href="#">DocumentValidationError</a> objects.

### Overrides

[RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

### Exceptions

Type	Condition
<a href="#">NotSupportedException</a>	Thrown if a certain <a href="#">DiscountType</a> is not supported.

## Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

## Extension Methods

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)

# Class DocumentPositionSubTotal

Subtotal position.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

DocumentPositionSubTotal

[DocumentPositionTotal](#)

## Implements

[IDisablePosition](#)

## Inherited Members

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentPositionSubTotal : DocumentPositionBase, IDisablePosition
```

## Properties

### Base Value

The value of the position without discounts.

### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public decimal BaseValue { get; set; }
```

### Property Value

### Type Description

[decimal](#)

## Caption

The caption for this position.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Caption { get; set; }
```

## Property Value

## Type Description

[string](#)

## Discounts

A list of all discounts for this position.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<Discount> Discounts { get; set; }
```

## Property Value

Type	Description
------	-------------

[List<Discount>](#)

## Remarks

At document validation this list will be sorted automatically by [DiscountOrder](#). The [DiscountOrder](#) must start with 0 value and must have continuous order.

## DocumentLevel

The validation level for this element.

## Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

## Property Value

Type	Description
------	-------------

[DocumentLevel](#)

## Overrides

[DocumentPositionBase.DocumentLevel](#)

## Type

The type of the position. For possible types see [DocumentPositionType](#).

## Declaration

```
public override DocumentPositionType Type { get; }
```

## Property Value

Type	Description
------	-------------

[DocumentPositionType](#)

## Overrides

## [DocumentPositionBase.Type](#)

### Value

The value of the position including discounts.

### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public decimal Value { get; set; }
```

### Property Value

Type	Description
------	-------------

<a href="#">decimal</a>	
-------------------------	--

## Methods

### Revert()

Reverts the position (turns all values negative)

### Declaration

```
public override void Revert()
```

### Overrides

[DocumentPositionBase.Revert\(\)](#)

### ToString()

Returns the string representation for this [DocumentPositionItem](#).

### Declaration

```
public override string ToString()
```

### Returns

Type	Description
------	-------------

<a href="#">string</a>	The string representation for this <a href="#">DocumentPositionItem</a> .
------------------------	---

### Overrides

[DocumentPositionBase.ToString\(\)](#)

### ValidateElement()

Validates the element with element specific validation and returns a list of validation errors.

### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

### Returns

Type	Description
------	-------------

<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of RetailForce.Common.Validation.ValidationError objects.
---	--

## Overrides

`RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()`

## ValidateScale(uint)

Returns whether the scale of all amounts of the position is smaller or equal the given scale.

## Declaration

```
public override bool ValidateScale(uint scale)
```

## Parameters

Type Name	Description
<a href="#">uint</a> scale	The maximum scale for all amounts of the position.

## Returns

Type	Description
<a href="#">bool</a>	True if the scale of all amounts is smaller or equal the given scale; otherwise false.

## Overrides

[DocumentPositionBase.ValidateScale\(uint\)](#)

## Implements

[IDiscountablePosition](#)



# Class DocumentPositionText

Represents a text position (or barcode position).

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionText](#)

## Inherited Members

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentPositionText : DocumentPositionBase
```

## Properties

### Barcode

The bar code. Please set [BarcodeType](#) to set the correct type.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Barcode { get; set; }
```

### Property Value

### Type Description

[string](#)

### Remarks

Send bar code without check digit. Sending bar code without setting [BarcodeType](#) will not print a bar code.

## BarcodeType

The type of the bar code if property [Barcode](#) is set.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public BarcodeType? BarcodeType { get; set; }
```

### Property Value

Type	Description
<a href="#">BarcodeType?</a>	

### Text

The text of the position.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Text { get; set; }
```

### Property Value

### Type Description

[string](#)

### Type

The type of the position. For possible types see [DocumentPositionType](#).

### Declaration

```
public override DocumentPositionType Type { get; }
```

### Property Value

Type	Description
<a href="#">DocumentPositionType</a>	

### Overrides

[DocumentPositionBase.Type](#)

## Methods

### Revert()

Reverts the position (turns all values negative)

### Declaration

```
public override void Revert()
```

### Overrides

[DocumentPositionBase.Revert\(\)](#)

### ToString()

Returns the string representation for this [DocumentPositionText](#).

### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	The string representation for this <a href="#">DocumentPositionText</a> .
------------------------	---

#### Overrides

[DocumentPositionBase.ToString\(\)](#)

#### ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

#### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

#### Returns

Type	Description
------	-------------

<a href="#">List&lt;DocumentValidationError&gt;</a>	A list of <a href="#">DocumentValidationError</a> objects.
---	--

#### Overrides

[RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

#### ValidateScale(uint)

Returns whether the scale of all amounts of the position is smaller or equal the given scale.

#### Declaration

```
public override bool ValidateScale(uint scale)
```

#### Parameters

Type Name	Description
-----------	-------------

<a href="#">uint</a> scale	The maximum scale for all amounts of the position.
----------------------------	--

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the scale of all amounts is smaller or equal the given scale; otherwise false.
----------------------	--

#### Overrides

[DocumentPositionBase.ValidateScale\(uint\)](#)

# Class DocumentPositionTotal

Total position. Must be the last position.

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionSubTotal](#)

[DocumentPositionTotal](#)

## Implements

[IDisablePosition](#)

## Inherited Members

[DocumentPositionSubTotal.BaseValue](#)

[DocumentPositionSubTotal.Value](#)

[DocumentPositionSubTotal.Discounts](#)

[DocumentPositionSubTotal.Caption](#)

[DocumentPositionSubTotal.ValidateScale\(uint\)](#)

[DocumentPositionSubTotal.DocumentLevel](#)

[DocumentPositionSubTotal.ValidateElement\(\)](#)

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentPositionTotal : DocumentPositionSubTotal, IDisablePosition
```

## Properties

### Rounding

Possible rounding for the document (if sum of positions (gross value) does not equal payment sum.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public decimal? Rounding { get; set; }
```

#### Property Value

##### Type Description

[decimal?](#)

#### Remarks

Please handle with care. A great value will disable amount validation for payment amount / gross value of document.

#### Type

The type of the position. For possible types see [DocumentPositionType](#).

#### Declaration

```
public override DocumentPositionType Type { get; }
```

#### Property Value

##### Type Description

[DocumentPositionType](#)

#### Overrides

[DocumentPositionSubTotal.Type](#)

#### Methods

##### Revert()

Reverts the position (turns all values negative)

#### Declaration

```
public override void Revert()
```

#### Overrides

[DocumentPositionSubTotal.Revert\(\)](#)

##### ToString()

Returns the string representation for this [DocumentPositionItem](#).

#### Declaration

```
public override string ToString()
```

#### Returns

##### Type Description

[string](#) The string representation for this [DocumentPositionItem](#).

#### Overrides

[DocumentPositionSubTotal.ToString\(\)](#)

#### Implements



# Enum DocumentPositionType

Represents the possible types of a document position.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum DocumentPositionType
```

## Remarks

ATTENTION: Add new type also to [ReadJson\(JsonReader, Type, object, JsonSerializer\)](#) and also add a test at test unit BasicDocumentValidation.ValidateDocumentSerializeDeSerializeTest!

## Fields

Name	Description
Booking	Represents a booking position. A booking position can be used for booking values (instead of items).
Item	Represents an item position.
SubItem	Represents a subitem position.
SubTotal	Represents a sub total position.
Text	Represents a text position.
Total	Represents a total position. A total position can be used for sending the total amount and discounts on the total document.

## Extension Methods

[DocumentPositionTypeExtension.In\(DocumentPositionType, params DocumentPositionType\[\]\)](#)

# Class DocumentPositionTypeExtension

## Inheritance

[object](#)

DocumentPositionTypeExtension

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class DocumentPositionTypeExtension
```

## Methods

**In(DocumentPositionType, params DocumentPositionType[])**

### Declaration

```
public static bool In(this DocumentPositionType documentType, params DocumentPositionType[] parameters)
```

### Parameters

Type	Name	Description
<a href="#">DocumentPositionType</a>	documentType	
<a href="#">DocumentPositionType[]</a>	parameters	

### Returns

### Type Description

[bool](#)



# Class DocumentPositionVatPosition

Base class for all positions having vat.

## Inheritance

### [object](#)

[ValidationBase](#)<[DocumentValidationError](#)>

[ValidationPropertyBase](#)<[DocumentValidationError](#)>

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

[DocumentPositionBooking](#)

[DocumentPositionItemBase](#)

## Implements

[IVatPosition](#)

## Inherited Members

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.Type](#)

[DocumentPositionBase.AdditionalFields](#)

[DocumentPositionBase.CreateDate](#)

[DocumentPositionBase.ExternalIdentifier](#)

[DocumentPositionBase.User](#)

[DocumentPositionBase.SalesPerson](#)

[DocumentPositionBase.FiscalAdditionalFields](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentPositionBase.ToString\(\)](#)

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[ValidationBase<DocumentValidationError>.ValidateElement\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]
public abstract class DocumentPositionVatPosition : DocumentPositionBase, IVatPosition
```

## Properties

### AccountingIdentifier

An additional identifier for accounting purposes (accounting interface).

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
```

```
public virtual string AccountingIdentifier { get; set; }
```

#### Property Value

#### Type Description

[string](#)

#### Gross Value

The gross value of the booking.

#### Declaration

```
[Required]  
public virtual decimal GrossValue { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

#### Remarks

You can use document extension [GetTotalGrossAmount\(Document\)](#) to get the total gross amount of the document.

#### ItemTaxType

The tax type (deliveries or services) of the item row.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public virtual ItemTaxType? ItemTaxType { get; set; }
```

#### Property Value

#### Type Description

[ItemTaxType?](#)

#### NetValue

The net value of the booking. If there is no Vat, or vat with 0 percent must be equal [GrossValue](#);

#### Declaration

```
[Required]  
public virtual decimal NetValue { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

#### TaxValue

The vat value of the booking.

#### Declaration

```
public virtual decimal TaxValue { get; set; }
```

#### Property Value

## Type Description

[decimal](#)

## VatIdentification

The value added tax for this position.

### Declaration

```
public virtual int VatIdentification { get; set; }
```

### Property Value

## Type Description

[int](#)

## VatPercent

The percentage of the vat

### Declaration

```
public virtual decimal VatPercent { get; set; }
```

### Property Value

## Type Description

[decimal](#)

## Methods

### Revert()

Reverts the position (turns all values negative)

### Declaration

```
public override void Revert()
```

### Overrides

[DocumentPositionBase.Revert\(\)](#)

### ValidateScale(uint)

Returns whether the scale of all amounts of the position is smaller or equal the given scale.

### Declaration

```
public override bool ValidateScale(uint scale)
```

### Parameters

Type Name	Description
<a href="#">uint</a> scale	The maximum scale for all amounts of the position.

### Returns

## Type

## Description

**Type****Description**

[bool](#) True if the scale of all amounts is smaller or equal the given scale; otherwise false.

**Overrides**

[DocumentPositionBase.ValidateScale\(uint\)](#)

**Implements**

[IVatPosition](#)

# Class DocumentReference

A document reference used for referencing other documents (when canceling, linking, etc.).

## Inheritance

[object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentReference](#)

[DocumentPositionReference](#)

## Implements

[IEquatable<DocumentReference>](#)

## Inherited Members

[DocumentValidationBase.VALIDATION\\_ERROR\\_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, string, string, string\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(bool\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(bool\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

[Serializable]

```
public class DocumentReference : DocumentValidationBase, IEquatable<DocumentReference>
```

## Properties

### DocumentBookDate

The storage date of the referenced document.

#### Declaration

```
public DateTimeOffset DocumentBookDate { get; set; }
```

#### Property Value

Type	Description
<a href="#">DateTimeOffset</a>	

#### Remarks

The format for this property is according ISO 8601 including time zone information. Sample: 2013-01-21T00:00:00+01:00. If time zone is omitted, time zone is interpreted in the local setting of the executing environment.

### DocumentGuid

The document guid of the referenced document.

## Declaration

```
public Guid DocumentGuid { get; set; }
```

## Property Value

### Type Description

[Guid](#)

## Remarks

Either the [DocumentGuid](#) or the complete document key ([StoreNumber](#), [TerminalNumber](#), [DocumentType](#) and [DocumentNumber/FiscalDocumentNumber](#)) must be set.

If you want to mark documents in digital receipt with process id (also the cancelled document) only [DocumentGuid](#) will work for referencing.

## DocumentId

The unique identification of the document.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string DocumentId { get; set; }
```

## Property Value

### Type Description

[string](#)

## Remarks

Should be continuous and unique identification of all documents. required, max length = 40.

## DocumentLevel

The level for the document.

## Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

## Property Value

Type	Description
------	-------------

<a href="#">DocumentLevel</a>	
-------------------------------	--

## Overrides

[DocumentValidationBase.DocumentLevel](#)

## DocumentNumber

The document number of the referenced document.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string DocumentNumber { get; set; }
```

## Property Value

### Type Description

[string](#)

## DocumentNumberSeries

The document number series of the referenced document.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string DocumentNumberSeries { get; set; }
```

### Property Value

### Type Description

[string](#)

## DocumentType

The type of the referenced document.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public DocumentType? DocumentType { get; set; }
```

### Property Value

Type	Description
------	-------------

[DocumentType?](#)

## FiscalDocumentNumber

The fiscal document number of the referenced document.

### Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]  
public int FiscalDocumentNumber { get; set; }
```

### Property Value

### Type Description

[int](#)

### Remarks

Either the [DocumentNumber](#) or the [FiscalDocumentNumber](#) must be set (when not using [DocumentGuid](#)).

## ReferenceType

The type of the reference.

### Declaration

```
public ReferenceType ReferenceType { get; set; }
```

### Property Value

Type	Description
------	-------------

[ReferenceType](#)

## ReturnReasonText

The reason (description) for the return / cancellation.

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string ReturnReasonText { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**ReturnReasonType**

The reason for the return / cancellation (if [ReferenceType](#) is cancellation).

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public ReturnReasonType? ReturnReasonType { get; set; }
```

**Property Value**

**Type Description**

[ReturnReasonType?](#)

**StoreNumber**

The store number of the referenced document.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string StoreNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**TerminalNumber**

The terminal number of the referenced document.

**Declaration**

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]
public string TerminalNumber { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Methods**

**Equals(DocumentReference)**

Indicates whether the current object is equal to another object of the same type.

**Declaration**

```
public bool Equals(DocumentReference other)
```

**Parameters**

Type	Name	Description
------	------	-------------



Type	Name	Description
------	------	-------------

[DocumentReference](#) other An object to compare with this object.

#### Returns

Type	Description
------	-------------

[bool](#) [true](#) if the current object is equal to the `other` parameter; otherwise, [false](#).

#### ToString()

Returns a string that represents the current object.

#### Declaration

```
public override string ToString()
```

#### Returns

Type	Description
------	-------------

[string](#) A string that represents the current object.

#### Overrides

[object.ToString\(\)](#)

#### ValidateElement()

Validates the element with element specific validation and returns a list of validation errors.

#### Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

#### Returns

Type	Description
------	-------------

[List<DocumentValidationError>](#) A list of `RetailForce.Common.Validation.ValidationError` objects.

#### Overrides

`RetailForce.Common.Validation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()`

#### Implements

[IEquatable<T>](#)

#### Extension Methods

[DocumentExtensions.GetReferenceInvoice\(DocumentReference\)](#)

# Class DocumentTaxPosition

Represents a tax position (summary for all tax items on a document).

## Inheritance

[object](#)

DocumentTaxPosition

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentTaxPosition
```

## Properties

### GrossAmount

The gross amount (including vat) for this vat position.

#### Declaration

```
public decimal GrossAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### NetAmount

The net amount (without vat) for this vat position.

#### Declaration

```
public decimal NetAmount { get; set; }
```

#### Property Value

##### Type Description

[decimal](#)

### VatAmount

The amount of the vat for this vat position.

#### Declaration

```
public decimal VatAmount { get; set; }
```

#### Property Value

## Type Description

[decimal](#)

## VatIdentification

The identification for this vat position.

### Declaration

```
public int VatIdentification { get; set; }
```

### Property Value

## Type Description

[int](#)

## VatLabel

An additional vat label to the vat identification for certain countries.

### Declaration

```
public string VatLabel { get; set; }
```

### Property Value

## Type Description

[string](#)

## VatPercent1

The percentage for this vat position.

### Declaration

```
public decimal VatPercent1 { get; set; }
```

### Property Value

## Type Description

[decimal](#)

# Enum DocumentType

The type of the document.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum DocumentType
```

## Remarks

Not every document type is used for every storage provider and fiscal interface.

You can find supported document types at [IFiscalModullImplementation.SupportedDocumentTypes](#).

The document type does not reflect a change of the sign of the values (netvalue, ...) of the document. Therefore payout for instance has to be send with negative values.

## Fields

Name	Description
CashCheck	Cash check report (X-Report)
CustomerOrder	Customer order represents an order of a customer.
DeliveryNote	Delivery note to a customer.
EndOfDay	End Of Day Receipt (Z-report)
Inventory	Inventory (stock taking)
Invoice	Invoice to a customer.
LongTermOrder	Long term order (Gastronomy = table order). Used for transactions which have a long lasting process from starting the transaction to end transaction.
MiscellaneousNonFiscal	Non fiscal document type for digital receipt. Will cause an error when used for fiscalisation ( <a href="#">CreateDocument(DocumentType)/StoreDocument(Document)</a> ).
NullReceipt	Null receipt to start fiscalisation.
OpeningBalance	Opening balance (opening stock) of the cash register.
PayIn	Pay in to the cash register system.
PayOut	Pay out for the cash register system.
PreliminaryReceipt	Receipt issued BEFORE payment in hospitality and gastronomy process. Used to inform the customer about the amount to pay.

<b>Name</b>	<b>Description</b>
PrintingReceipt	Receipt type for printing receipt (only text positions) in countries with fiscal printer.
ProformaInvoice	Proforma invoice.
Purchase	Purchase document if goods are purchased for the company.
Receipt	Receipt of a cash register system.

# Class DocumentValidationError

Represents a document validation error.

## Inheritance

[object](#)

ValidationError

DocumentValidationError

## Inherited Members

ValidationError.ErrorLevel

ValidationError.ErrorText

ValidationError.ErrorSource

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class DocumentValidationError : ValidationError
```

## Constructors

**DocumentValidationError(ErrorLevel, DocumentLevel, string, string)**

Constructor.

## Declaration

```
public DocumentValidationError(ErrorLevel errorLevel, DocumentLevel level, string errorText, string errorSource = "")
```

## Parameters

Type	Name	Description
ErrorLevel	errorLevel	The level of the error (errortype). Possible values are error, warning and information. See <a href="#">RetailForce.Common.Validation.ErrorLevel</a> for more information.
<a href="#">DocumentLevel</a>	level	The level of the error in the document. Possible values are header, position, payment. See <a href="#">level</a> for more information.
<a href="#">string</a>	errorText	The description of the error.
<a href="#">string</a>	errorSource	The source module of the error. If omitted "Document" is assumed.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if <code>errorText</code> is set to null or empty string.

## Properties

### Level

The level of the error in the document. Possible values are header, position, payment.

### Declaration

```
public DocumentLevel Level { get; }
```

### Property Value

Type	Description
<a href="#">DocumentLevel</a>	

### Methods

#### ToString()

Returns the string representation for this [DocumentValidationError](#).

### Declaration

```
public override string ToString()
```

### Returns

Type	Description
------	-------------

[string](#) The string representation for this [DocumentValidationError](#).

### Overrides

```
RetailForce.Common.Validation.ValidationError.ToString()
```

# Interface **IBusinessTransactionTypePosition**

Interface for all positions containing a business transaction type.

## Inherited Members

[IVatPosition.PositionNumber](#)  
[IVatPosition.VatIdentification](#)  
[IVatPosition.VatPercent](#)  
[IVatPosition.NetValue](#)  
[IVatPosition.GrossValue](#)  
[IVatPosition.TaxValue](#)  
[IVatPosition.AccountingIdentifier](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IBusinessTransactionTypePosition : IVatPosition
```

## Properties

### **BusinessTransactionType**

The business transaction type for this position.

#### Declaration

```
BusinessTransactionType BusinessTransactionType { get; set; }
```

#### Property Value

Type	Description
<a href="#">BusinessTransactionType</a>	

### **CancellationPosition**

True if this position cancels a position of another document; otherwise false.

#### Declaration

```
bool CancellationPosition { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Remarks

Please ensure to set [PositionReference](#) with type [Cancellation](#) if setting this property to true.

### **PositionReference**

Referene to another document position.

#### Declaration

```
DocumentPositionReference PositionReference { get; set; }
```

#### Property Value



Type	Description
------	-------------

[DocumentPositionReference](#)

## Type

The type of the position. For possible types see [DocumentPositionType](#).

## Declaration

```
DocumentPositionType Type { get; }
```

## Property Value

Type	Description
------	-------------

[DocumentPositionType](#)

## Extension Methods

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)

# Interface IDiscountablePosition

Represents a position which is discountable.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IDiscountablePosition
```

## Properties

### BaseValue

#### Declaration

```
decimal BaseValue { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">decimal</a>	
-------------------------	--

### Discounts

The discount collection for this position.

#### Declaration

```
List<Discount> Discounts { get; set; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">List&lt;Discount&gt;</a>	
--------------------------------------	--

### Value

#### Declaration

```
decimal Value { get; }
```

#### Property Value

Type	Description
------	-------------

<a href="#">decimal</a>	
-------------------------	--

# Interface IVatPosition

Interface for all positions having vat.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IVatPosition
```

## Properties

### AccountingIdentifier

An additional identifier for accounting purposes (accounting interface).

#### Declaration

```
string AccountingIdentifier { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### GrossValue

The gross value of the booking.

#### Declaration

```
decimal GrossValue { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### NetValue

The net value of the booking. If there is no Vat, or vat with 0 percent must be equal [GrossValue](#);

#### Declaration

```
decimal NetValue { get; set; }
```

#### Property Value

#### Type Description

[decimal](#)

### PositionNumber

The number of the position in the position sequence.

#### Declaration

```
int PositionNumber { get; set; }
```

#### Property Value

## Type Description

[int](#)

## TaxValue

The vat value of the booking.

## Declaration

```
decimal TaxValue { get; set; }
```

## Property Value

## Type Description

[decimal](#)

## VatIdentification

The value added tax for this position.

## Declaration

```
int VatIdentification { get; set; }
```

## Property Value

## Type Description

[int](#)

## VatPercent

The percentage of the vat

## Declaration

```
decimal VatPercent { get; set; }
```

## Property Value

## Type Description

[decimal](#)

# Enum ItemTaxType

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ItemTaxType
```

## Fields

Name	Description
------	-------------

Deliveries	
------------	--

Services	
----------	--

# Enum PayOutType

The type of the payout (only in combination with business transaction type payout).

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum PayOutType
```

## Fields

Name	Description
BuyGoods	Use to buy goods to sell.
CleaningMaterial	Use if cleaning material is bought.
OfficeSupplies	Use if office supplies are bought.
OtherCosts	Use to pay all other non specified costs.
PostalFee	Use if postal fees are payed.
Salary	Use to pay salary.
Wages	Use to pay wages.

# Enum PaymentType

The type of the payment.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum PaymentType
```

## Fields

Name	Description
BankAccount	Represents a payment by bank account.
Cash	Payment type is cash.
Check	Represents a payment by check.
CreditCard	Represents a credit card payment.
CreditNote	Represents a payment using a previously issued credit note.
Crypto	Represents a payment with crypto currency (bitcoin, etc.)
CustomerCard	Represents a payment payed by customer card.
Deposit	Represents a payment deposit.
EcCard	Represents a ec card payment.
Loyalty	Represents a payment with loyalty system (points, coupons)
MobilePhoneApps	Represents a payment with mobile phone apps.
MultiPurposeVoucher	Represents a multiple purpose voucher payment.
NoCash	Represents a payment without cash money transfer.
None	Represents an empty Payment.
PaymentProvider	Represents a payment provider which is not category Loyalty or MobilePhoneApps.
SinglePurposeVoucher	Represents a single purpose voucher payment.

# Class QuantityUnit

Represents a quantity unit of a position.

## Inheritance

[object](#)

QuantityUnit

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[Serializable]  
public class QuantityUnit
```

## Properties

### Id

The id of the quantity unit.

### Declaration

```
public string Id { get; set; }
```

### Property Value

## Type Description

[string](#)



# Enum ReferenceType

The reference type of the document (position) reference.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[JsonConverter(typeof(StringEnumConverter))]
[TypeConverter(typeof(EnumMemberEnumConverter))]
public enum ReferenceType
```

## Fields

Name	Description
Cancellation	Represents a reference to a voided document / document position.
Predecessor	Represents a reference to a previous linked document.
Reprint	Represents a reference to a document which is reprinted.

# Enum ReturnReasonType

The reason for the return.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum ReturnReasonType
```

## Fields

Name	Description
CustomerComplaint	The customer complains about the product (also for warranty).
CustomerDataWrong	The customer data on the issued receipt was wrong.
CustomerDiscount	The customer wants to have a discount on the item.
CustomerReturn	The customer wants to return the product (without complaint).
ItemNotInStock	Item was not in stock.
MasterDataWrong	Master data for the item was wrong.
TechnicalMysteryShopping	The sales process was a mystery shopping receipt.
UserMistake	Set it the user of the pos software has done a mistake and it should be corrected.

# Class StoredDocument

Represents a class containing the [Document](#), the [FiscalResponse](#) and the closing identifier.

## Inheritance

[object](#)  
StoredDocument  
[CosmosDocument](#)

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class StoredDocument
```

## Constructors

### StoredDocument()

Constructor.

#### Declaration

```
public StoredDocument()
```

### StoredDocument(string, Document, FiscalResponse)

Constructor.

#### Declaration

```
public StoredDocument(string closingIdentifier, Document document, FiscalResponse fiscalResponse)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	closingIdentifier	
<a href="#">Document</a>	document	
<a href="#">FiscalResponse</a>	fiscalResponse	

## Properties

### ClosingIdentifier

The closing identifier for the cashpoint closing.

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string ClosingIdentifier { get; set; }
```

#### Property Value

## Type Description

[string](#)

## Document

The document.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Document Document { get; set; }
```

## Property Value

### Type Description

[Document](#)

## FiscalResponse

The fiscal response for this document.

## Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public FiscalResponse FiscalResponse { get; set; }
```

## Property Value

### Type Description

[FiscalResponse](#)

# Namespace RetailForce.Fiscalisation.Model.Helper

## Classes

### [CosmosDocument](#)

Helper object to store documents to azure cosmos db (document store).

### [UrlStore](#)

Class to hold test and production url's

# Class CosmosDocument

Helper object to store documents to azure cosmos db (document store).

## Inheritance

[object](#)  
[StoredDocument](#)  
CosmosDocument

## Inherited Members

[StoredDocument.ClosingIdentifier](#)  
[StoredDocument.Document](#)  
[StoredDocument.FiscalResponse](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Helper](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CosmosDocument : StoredDocument
```

## Constructors

### CosmosDocument()

Constructor.

### Declaration

```
public CosmosDocument ()
```

### CosmosDocument(string, Document, FiscalResponse)

Constructor.

### Declaration

```
public CosmosDocument(string closingIdentifier, Document document, FiscalResponse fiscalResponse)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	closingIdentifier	The closing identifier for this document/response tuple.
<a href="#">Document</a>	document	The document of the document/response tuple.
<a href="#">FiscalResponse</a>	fiscalResponse	The response of the document/response tuple.

## Exceptions

## Type

## Condition

[ArgumentNullException](#) Thrown if parameter `document` is set to null.

[ArgumentNullException](#) Thrown if parameter `closingIdentifier` is set to null or [Empty](#).

## Properties

### Id

Represents unique id for item in cosmos db and is mapped to `DocumentGuid`.

#### Declaration

```
[JsonProperty("id", NullValueHandling = NullValueHandling.Ignore)]  
public Guid Id { get; set; }
```

#### Property Value

### Type Description

[Guid](#)

### TerminalId

Represents the terminal id (`uniqueClientId`) for this object (needed for `partitionKey` in cosmos db).

#### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public Guid TerminalId { get; set; }
```

#### Property Value

### Type Description

[Guid](#)

# Class UrlStore

Class to hold test and production url's

## Inheritance

[object](#)  
UrlStore

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Helper](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class UrlStore
```

## Constructors

### UrlStore()

Constructor.

### Declaration

```
public UrlStore()
```

### UrlStore(string, string)

Constructor.

### Declaration

```
public UrlStore(string productionUrl, string testUrl = null)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	productionUrl	The production url.
<a href="#">string</a>	testUrl	The test url.

## Properties

### ProdUrl

The production url.

### Declaration

```
public string ProdUrl { get; set; }
```



**Property Value**

**Type Description**

[string](#)

**TestUrl**

The test url.

**Declaration**

```
public string TestUrl { get; set; }
```

**Property Value**

**Type Description**

[string](#)

**Methods**

**GetUrl(bool)**

Returns the requested url (test or production).

**Declaration**

```
public string GetUrl(bool testClient)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">bool</a>	testClient	True if test url should be returned; otherwise false.
----------------------	------------	---

**Returns**

**Type Description**

[string](#)

# Namespace RetailForce.Fiscalisation.Model.Receipts

## Classes

### [ReceiptMetaData](#)

Receipt meta data for digital receipt full version.

# Class ReceiptMetaData

Receipt meta data for digital receipt full version.

## Inheritance

[object](#)

ReceiptMetaData

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Receipts](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class ReceiptMetaData
```

## Properties

### Amount

The amount (gross) of the receipt.

#### Declaration

```
public decimal Amount { get; set; }
```

#### Property Value

Type	Description
------	-------------

[decimal](#)

### BookDate

The book date of the receipt.

#### Declaration

```
public DateTimeOffset BookDate { get; set; }
```

#### Property Value

Type	Description
------	-------------

[DateTimeOffset](#)

### CancelledDocumentGuid

The document guid of the cancelled document (to mark this document with processId).

#### Declaration

```
public Guid? CancelledDocumentGuid { get; set; }
```

#### Property Value

## Type Description

[Guid?](#)

### Remarks

This property uses [ProcessId](#) to mark cancellation and cancelled receipt.

## CustomDocumentType

Custom document type for digital receipt (no fiscalisation document type).

### Declaration

```
public int? CustomDocumentType { get; set; }
```

### Property Value

## Type Description

[int?](#)

## DocumentGuid

The document guid when used in combination with fiscalisation (Document.DocumentGuid).

### Declaration

```
public Guid? DocumentGuid { get; set; }
```

### Property Value

## Type Description

[Guid?](#)

## DocumentId

The unique identification of the document.

### Declaration

```
public string DocumentId { get; set; }
```

### Property Value

## Type Description

[string](#)

## DocumentNumber

The document number for this document.

### Declaration

```
public string DocumentNumber { get; set; }
```

### Property Value

## Type Description

[string](#)

## DocumentType

The type of the document. See also document model of trusted fiscal module, `documentType`.

**Declaration**

```
public DocumentType DocumentType { get; set; }
```

**Property Value****Type Description**

[DocumentType](#)

**ItemCodeArray**

A list of itemcodes (e.g. barcode) which are stored on the receipt.

**Declaration**

```
public string[] ItemCodeArray { get; set; }
```

**Property Value****Type Description**

[string\[\]](#)

**ItemIdArray**

A list of itemId (the id of the item) which are stored on the receipt.

**Declaration**

```
public string[] ItemIdArray { get; set; }
```

**Property Value****Type Description**

[string\[\]](#)

**Partner**

A possible partner of the receipt.

**Declaration**

```
public Partner Partner { get; set; }
```

**Property Value****Type Description**

[Partner](#)

**ProcessId**

The processId for connecting several documents together (for instance for canceling process).

**Declaration**

```
public string ProcessId { get; set; }
```

**Property Value****Type Description**

[string](#)

**Remarks**

All receipts marked with this process (same processId) will be flagged in portal and can be viewed in a process view together.

## **RetailForceReceiptId**

The global short (8 byte) unique receipt id.

### **Declaration**

```
public string RetailForceReceiptId { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **Users**

Possible users for the document.

### **Declaration**

```
public User[] Users { get; set; }
```

### **Property Value**

### **Type Description**

[User\[\]](#)

### **Remarks**

More than one user is only supported when using Metadata. When using fiscal data to create metadata only one user is supported.

# Namespace RetailForce.Fiscalisation.Provider

## Classes

### [FileAlreadyExistsException](#)

Represents an exception if a file already exists on the given path.

### [FileStorageProvider](#)

Represents storage of documents to files in given directory.

## Interfaces

### [IStorageProvider](#)

Represents a storage provider for digital documents.

# Class FileAlreadyExistsException

Represents an exception if a file already exists on the given path.

## Inheritance

[object](#)  
[Exception](#)  
FileAlreadyExistsException

## Implements

[ISerializable](#)

## Inherited Members

[Exception.GetBaseException\(\)](#)  
[Exception.GetObjectData\(SerializationInfo, StreamingContext\)](#)  
[Exception.GetType\(\)](#)  
[Exception.ToString\(\)](#)  
[Exception.Data](#)  
[Exception.HelpLink](#)  
[Exception.HResult](#)  
[Exception.InnerException](#)  
[Exception.Source](#)  
[Exception.StackTrace](#)  
[Exception.TargetSite](#)  
[Exception.SerializeObjectState](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FileAlreadyExistsException : Exception, ISerializable
```

## Constructors

### FileAlreadyExistsException(string)

Constructor.

#### Declaration

```
public FileAlreadyExistsException(string filename)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	filename	The filename of the file which already exists on disk.

### FileAlreadyExistsException(string, string)

Constructor.

#### Declaration



```
public FileAlreadyExistsException(string filename, string message)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	filename	The filename of the file which already exists on disk.
------------------------	----------	--

<a href="#">string</a>	message	The message for this exception.
------------------------	---------	---------------------------------

#### Properties

##### Filename

The filename of the file which already exists on disk.

##### Declaration

```
public string Filename { get; }
```

##### Property Value

##### Type Description

[string](#)

##### Message

The message for this exception.

##### Declaration

```
public string Message { get; }
```

##### Property Value

##### Type Description

[string](#)

#### Implements

[ISerializable](#)

# Class FileStorageProvider

Represents storage of documents to files in given directory.

## Inheritance

[object](#)

[LoggingBase](#)

[FileStorageProvider](#)

## Implements

[IStorageProvider](#)

[IDocumentInterface](#)

## Inherited Members

[LoggingBase.\\_logger](#)

[LoggingBase.\\_logSource](#)

[LoggingBase.LogCritical\(string, params object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogError\(string, params object\[\]\)](#)

[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogWarning\(string, params object\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FileStorageProvider : LoggingBase, IStorageProvider, IDocumentInterface
```

## Constructors

### FileStorageProvider(ILogger, string)

Constructor.

#### Declaration

```
public FileStorageProvider(ILogger logger, string basePath)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	The logger for this class.
<a href="#">string</a>	basePath	The path where the files should be stored. Must not be null or empty.

## Exceptions

Type

Condition

## Type

## Condition

[ArgumentNullException](#) Thrown if `basePath` was set to null or empty string.

[DirectoryNotFoundException](#) Thrown if directory `basePath` is not found or not a valid path.

## Properties

### ProcessingDocumentTypes

Returns all process document types by this provider.

#### Declaration

```
public IReadOnlyList<DocumentType> ProcessingDocumentTypes { get; }
```

#### Property Value

#### Type

#### Description

[IReadOnlyList<DocumentType>](#)

### SupportedDocumentTypes

Returns all supported document types by this provider.

#### Declaration

```
public IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

#### Property Value

#### Type

#### Description

[IReadOnlyList<DocumentType>](#)

## Methods

### BeginTransaction(Guid?)

Starts a new transaction on this interface.

#### Declaration

```
public void BeginTransaction(Guid? transactionId)
```

#### Parameters

#### Type Name

#### Description

[Guid?](#) transactionId The id for the new transaction. The transactionId is the DocumentGuid of the [Document](#).

#### Exceptions

#### Type

#### Condition

[ArgumentNullException](#) Thrown if `transactionId` is set to null or [Empty](#).

[InvalidOperationException](#) Thrown if a transaction is already running and this function is called again.

### CommitTransaction(Guid?)

Commits the transaction on this interface.

#### Declaration

```
public void CommitTransaction(Guid? transactionId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid?</a>	transactionId	The id for the current transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .
-----------------------	---------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if transactionId is set to null or <a href="#">Empty</a> .
---------------------------------------	---

<a href="#">InvalidOperationException</a>	Thrown if this function is called and no transaction was started before.
---	--

<a href="#">ArgumentException</a>	Thrown if the transactionId is not the actual running transaction.
-----------------------------------	--

#### RollbackTransaction(Guid?)

Roll the transaction on this interface back.

#### Declaration

```
public void RollbackTransaction(Guid? transactionId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid?</a>	transactionId	The id for the current transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .
-----------------------	---------------	---

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if transactionId is set to null or <a href="#">Empty</a> .
---------------------------------------	---

<a href="#">InvalidOperationException</a>	Thrown if this function is called and no transaction was started before.
---	--

<a href="#">ArgumentException</a>	Thrown if the transactionId is not the actual running transaction.
-----------------------------------	--

#### StoreDocument(Guid?, Document)

Stores a document with this provider.

#### Declaration

```
public void StoreDocument(Guid? transactionId, Document document)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
<a href="#">Guid?</a>	transactionId	The id for the current transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .
<a href="#">Document</a>	document	The document to store.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if document or transactionId is set to null (or Guid.Empty).
<a href="#">InvalidDataException</a>	Thrown if the serialized string is null or empty.
<a href="#">InvalidOperationException</a>	Thrown if the function was called and no transaction was started in front.
<a href="#">FileAlreadyExistsException</a>	Thrown if the work file for this document already exists.
<a href="#">ArgumentException</a>	Thrown if the transactionId is not the actual running transaction.

#### ValidateDocument(Document, bool)

Validates a document and returns (if appropriate) a list of document validation errors.

#### Declaration

```
public List<DocumentValidationError> ValidateDocument(Document document, bool reprintDocument = false)
```

#### Parameters

Type	Name	Description
<a href="#">Document</a>	document	The document to validate.
<a href="#">bool</a>	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

#### Returns

Type	Description
<a href="#">List&lt;DocumentValidationError&gt;</a>	The list of document validation errors.

#### Remarks

This function will always return an empty list because the [FileStorageProvider](#) will always store anything of the model.

#### Implements

[IStorageProvider](#)  
[IDocumentInterface](#)

# Interface IStorageProvider

Represents a storage provider for digital documents.

## Inherited Members

[IDocumentInterface.ValidateDocument\(Document, bool\)](#)

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IStorageProvider : IDocumentInterface
```

## Methods

### BeginTransaction(Guid?)

Starts a new transaction on this interface.

#### Declaration

```
void BeginTransaction(Guid? transactionId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid?</a>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .

### CommitTransaction(Guid?)

Commits the transaction on this interface.

#### Declaration

```
void CommitTransaction(Guid? transactionId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid?</a>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .

### RollbackTransaction(Guid?)

Roll the transaction on this interface back.

#### Declaration

```
void RollbackTransaction(Guid? transactionId)
```

#### Parameters

Type	Name	Description
<a href="#">Guid?</a>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .

### StoreDocument(Guid?, Document)

Stores a document with this provider.

#### Declaration

```
void StoreDocument(Guid? transactionId, Document document)
```

#### Parameters

Type	Name	Description
<a href="#">Guid?</a>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the <a href="#">Document</a> .
<a href="#">Document</a>	document	The document to store.

# Namespace RetailForce.Fiscalisation.Signing

## Classes

### [Certificate](#)

Represents a X509.V3 certificate with private key.

### [CertificateAzureStorageStore](#)

So far not implemented, but prepared for FiscalService@Cloud

### [CertificateFileSystemStore](#)

File system implementation for [ICertificateStore](#).

### [X509SignatureInterface](#)

Represents a signature interface using X509 Signatures for signing data.

### [X509SignatureVerifyInterface](#)

X509 certificate implementation to verify signatures (only public key necessary).

## Interfaces

### [ICertificateStore](#)

Certificate store depending on the environment of the fiscal system.

### [ISignatureInterface](#)

Signature interface for signing data and verifying signatures.

### [ISignatureVerifyInterface](#)

Signature interface to verify signatures.

## Enums

### [CertificateFormat](#)

Format of certificate.



# Class Certificate

Represents a X509.V3 certificate with private key.

## Inheritance

[object](#)  
Certificate

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class Certificate
```

## Properties

### CertificateFormat

The format of the certificate

#### Declaration

```
public CertificateFormat CertificateFormat { get; set; }
```

#### Property Value

Type	Description
<a href="#">CertificateFormat</a>	

### CertificatePfx

The certificate in pfx Format - base64 encoded

#### Declaration

```
public string CertificatePfx { get; set; }
```

#### Property Value

#### Type Description

[string](#)

### OnlyPublicKey

True if the certificate contains only public key (private key not supplied); otherwise false.

#### Declaration

```
public bool OnlyPublicKey { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

## Remarks

If True [PrivateKeySecretEncrypted](#) is null or [Empty](#).

### PrivateKeySecretEncrypted

The secret to get the private key, encrypted.

#### Declaration

```
public string PrivateKeySecretEncrypted { get; set; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### GetCertificate()

Returns a Org.BouncyCastle.X509.X509Certificate from the certificate pfx string.

#### Declaration

```
public X509Certificate GetCertificate()
```

#### Returns

Type	Description
X509Certificate	A Org.BouncyCastle.X509.X509Certificate from the certificate pfx string.

### GetCertificate2(string)

Returns the [X509Certificate2](#) object from the certificate.

#### Declaration

```
public X509Certificate2 GetCertificate2(string privateKeyPassword)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	privateKeyPassword	The password to open the pfx.

#### Returns

Type	Description
<a href="#">X509Certificate2</a>	The <a href="#">X509Certificate2</a> object from the certificate.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>privateKeyPassword</code> is set to null or <a href="#">Empty</a> .

### GetCertificateEntry(string, out AsymmetricKeyEntry, string)

Returns the `Org.BouncyCastle.Pkcs.X509CertificateEntry` object from this certificate.

#### Declaration

```
public X509CertificateEntry GetCertificateEntry(string privateKeyPassword, out AsymmetricKeyEntry privateKey, string certificateAlias = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	privateKeyPassword	The password to open the pfx.
<code>AsymmetricKeyEntry</code>	privateKey	Out parameter. The private key for this certificate.
<a href="#">string</a>	certificateAlias	The alias of the certificate.

#### Returns

Type	Description
<code>X509CertificateEntry</code>	The <code>Org.BouncyCastle.Pkcs.X509CertificateEntry</code> object from this certificate.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>privateKeyPassword</code> is set to null or <a href="#">Empty</a> .

### GetX509Certificate2(string, string, string)

Returns the [X509Certificate2](#) from the given pfx.

#### Declaration

```
public static X509Certificate2 GetX509Certificate2(string certificatePfx, string privateKeySecretEncrypted, string privateKeyPassword)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificatePfx	The string containing the certificate pfx.
<a href="#">string</a>	privateKeySecretEncrypted	The encrypted secret to open the pfx.
<a href="#">string</a>	privateKeyPassword	The password for the encrypted secret.

#### Returns

Type	Description
<a href="#">X509Certificate2</a>	The <a href="#">X509Certificate2</a> from the given pfx.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>certificatePfx</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>privateKeySecretEncrypted</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>privateKeyPassword</code> is set to null or <a href="#">Empty</a> .

### GetX509CertificateEntryFromDer(Stream)

Returns Org.BouncyCastle.Pkcs.X509CertificateEntry from der encoded byte stream

#### Declaration

```
public static X509CertificateEntry GetX509CertificateEntryFromDer(Stream certificateStream)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	certificateStream	The stream containing the der encoded bytes.

#### Returns

Type	Description
X509CertificateEntry	A Org.BouncyCastle.Pkcs.X509CertificateEntry from der encoded byte stream

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter certificateStream is set to null.

### GetX509CertificateEntryFromPfx(string, string, string, out AsymmetricKeyEntry, string)

Returns Org.BouncyCastle.Pkcs.X509CertificateEntry from base64 encoded certificate pfx string.

#### Declaration

```
public static X509CertificateEntry GetX509CertificateEntryFromPfx(string certificatePfx, string privateKeySecretEncrypted, string privateKeyPassword, out AsymmetricKeyEntry privateKey)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificatePfx	The string containing the certificate pfx.
<a href="#">string</a>	privateKeySecretEncrypted	The encrypted secret to open the pfx.
<a href="#">string</a>	privateKeyPassword	The password for the encrypted secret.
AsymmetricKeyEntry	privateKey	Out parameter. The private key of the certificate.
<a href="#">string</a>	certificateAlias	The alias of the certificate.

#### Returns

Type	Description
X509CertificateEntry	The Org.BouncyCastle.Pkcs.X509CertificateEntry from base64 encoded certificate pfx string.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter certificatePfx is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter privateKeySecretEncrypted is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter privateKeyPassword is set to null or <a href="#">Empty</a> .

### GetX509CertificateFromDer(Stream)

Returns Org.BouncyCastle.X509.X509Certificate from der encoded byte stream

#### Declaration

```
public static X509Certificate GetX509CertificateFromDer(Stream certificateStream)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	certificateStream	The stream containing the der encoded bytes.

#### Returns

Type	Description
X509Certificate	A Org.BouncyCastle.X509.X509Certificate from der encoded byte stream

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter certificateStream is set to null.

# Class CertificateAzureStorageStore

So far not implemented, but prepared for FiscalService@Cloud

## Inheritance

[object](#)

CertificateAzureStorageStore

## Implements

[ICertificateStore](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CertificateAzureStorageStore : ICertificateStore
```

## Constructors

### CertificateAzureStorageStore()

#### Declaration

```
public CertificateAzureStorageStore()
```

## Methods

### CertificateExists(string)

Return whether the requested certificate exists in the store.

#### Declaration

```
public bool CertificateExists(string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

#### Returns

Type	Description
<a href="#">bool</a>	True if the certificate exists; otherwise false.

### GetCertificate(string)

Returns a [X509Certificate2](#) object from the stored [Certificate](#) requested by certificateName.

#### Declaration

```
public X509Certificate2 GetCertificate(string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

#### Returns

Type	Description
<a href="#">X509Certificate2</a>	A <a href="#">X509Certificate2</a> object from the stored <a href="#">Certificate</a> requested by certificateName.

#### Exceptions

Type	Condition
<a href="#">KeyNotFoundException</a>	Thrown if requested certificate does not exist.

#### GetSignatureInterface(string, string)

Returns a [X509SignatureInterface](#) object from the stored [Certificate](#) requested by certificateName.

#### Declaration

```
public X509SignatureInterface GetSignatureInterface(string certificateName = null, string certificateAlias = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.
<a href="#">string</a>	certificateAlias	The alias for getting the right certificate / key from the storage.

#### Returns

Type	Description
<a href="#">X509SignatureInterface</a>	A <a href="#">X509SignatureInterface</a> object from the stored <a href="#">Certificate</a> requested by certificateName.

#### Exceptions

Type	Condition
<a href="#">KeyNotFoundException</a>	Thrown if requested certificate does not exist.

#### StoreCertificate(Certificate, string)

Stores certificate to certificate store. If certificate with same name already exists, it is overwritten.

#### Declaration

```
public void StoreCertificate(Certificate certificate, string certificateName)
```

#### Parameters

Type	Name	Description
<a href="#">Certificate</a>	certificate	The <a href="#">Certificate</a> structure containing the external certificate.
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

## StoreCertificate(Stream, string, bool, string)

Stores an external certificate to the fiscal module certificate store.

### Declaration

```
public void StoreCertificate(Stream pfxStream, string pfxPassword, bool overwrite = false, string certificateName = null)
```

### Parameters

Type	Name	Description
<a href="#">Stream</a>	pfxStream	The stream containing the certificate in PKSC12 format. Stream must be at the beginning (Seek.Beginning).
<a href="#">string</a>	pfxPassword	The password to access the private key of the certificate.
<a href="#">bool</a>	overwrite	True if a certificate which is already stored should be overwritten; otherwise false. Default is false.
<a href="#">string</a>	certificateName	The id of the certificate to store; if null the certificate is stored as default certificate.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfxStream</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfxPassword</code> is set to null or <a href="#">Empty</a> .
<a href="#">AlreadyExistsException</a>	Thrown if the given certificate already exists and parameter <code>overwrite</code> is set to false.

### Implements

[ICertificateStore](#)

# Class CertificateFileSystemStore

File system implementation for [ICertificateStore](#).

## Inheritance

[object](#)

CertificateFileSystemStore

## Implements

[ICertificateStore](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class CertificateFileSystemStore : ICertificateStore
```

## Constructors

### CertificateFileSystemStore(string, Guid)

Constructor.

## Declaration

```
public CertificateFileSystemStore(string storagebasePath, Guid uniqueClientId)
```

## Parameters

Type	Name	Description
<a href="#">string</a>	storagebasePath	The storage base path for the certificates (including certificates directory).
<a href="#">Guid</a>	uniqueClientId	The client id of the client of this <a href="#">CertificateFileSystemStore</a> .

## Remarks

Directory will be created if not existing.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>storagebasePath</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>uniqueClientId</code> is set to <a href="#">Empty</a> .

## Methods

### CertificateExists(string)

Return whether the requested certificate exists in the store.

#### Declaration

```
public bool CertificateExists(string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

#### Returns

Type	Description
<a href="#">bool</a>	True if the certificate exists; otherwise false.

#### GetCertificate(string)

Returns a [X509Certificate2](#) object from the stored [Certificate](#) requested by certificateName.

#### Declaration

```
public X509Certificate2 GetCertificate(string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

#### Returns

Type	Description
<a href="#">X509Certificate2</a>	A <a href="#">X509Certificate2</a> object from the stored <a href="#">Certificate</a> requested by certificateName.

#### Exceptions

Type	Condition
<a href="#">KeyNotFoundException</a>	Thrown if requested certificate does not exist.

#### GetSignatureInterface(string, string)

Returns a [X509SignatureInterface](#) object from the stored [Certificate](#) requested by certificateName.

#### Declaration

```
public X509SignatureInterface GetSignatureInterface(string certificateName = null, string certificateAlias = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.
<a href="#">string</a>	certificateAlias	The alias for getting the right certificate / key from the storage.

#### Returns

Type	Description
------	-------------



**Type****Description**

[X509SignatureInterface](#) A [X509SignatureInterface](#) object from the stored [Certificate](#) requested by `certificateName`.

**Exceptions****Type****Condition**

[KeyNotFoundException](#) Thrown if requested certificate does not exist.

**StoreCertificate(Certificate, string)**

Stores certificate to certificate store. If certificate with same name already exists, it is overwritten.

**Declaration**

```
public void StoreCertificate(Certificate certificate, string certificateName = null)
```

**Parameters****Type****Name****Description**

[Certificate](#) certificate The [Certificate](#) structure containing the external certificate.

[string](#) certificateName The name of the certificate. If null or [Empty](#) "Default" is used.

**StoreCertificate(Stream, string, bool, string)**

Stores an external certificate to the fiscal module certificate store.

**Declaration**

```
public void StoreCertificate(Stream pfxStream, string pfxPassword, bool overwrite = false, string certificateName = null)
```

**Parameters****Type****Name****Description**

[Stream](#) pfxStream The stream containing the certificate in PKSC12 format. Stream must be at the beginning (Seek.Beginning).

[string](#) pfxPassword The password to access the private key of the certificate.

[bool](#) overwrite True if a certificate which is already stored should be overwritten; otherwise false. Default is false.

[string](#) certificateName The id of the certificate to store; if null the certificate is stored as default certificate.

**Exceptions****Type****Condition**

[ArgumentNullException](#) Thrown if parameter `pfxStream` is set to null.

[ArgumentNullException](#) Thrown if parameter `pfxPassword` is set to null or [Empty](#).

[AlreadyExistsException](#) Thrown if the given certificate already exists and parameter `overwrite` is set to false.

**Implements**

[ICertificateStore](#)

# Enum CertificateFormat

Format of certificate.

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public enum CertificateFormat
```

## Fields

Name	Description
------	-------------

Der	DER encoded format
-----	--------------------

Pfx	PKCS#12 format
-----	----------------

# Interface ICertificateStore

Certificate store depending on the environment of the fiscal system.

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ICertificateStore
```

## Methods

### CertificateExists(string)

Return whether the requested certificate exists in the store.

#### Declaration

```
bool CertificateExists(string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

#### Returns

Type	Description
<a href="#">bool</a>	True if the certificate exists; otherwise false.

### GetCertificate(string)

Returns a [X509Certificate2](#) object from the stored [Certificate](#) requested by certificateName.

#### Declaration

```
X509Certificate2 GetCertificate(string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	certificateName	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

#### Returns

Type	Description
<a href="#">X509Certificate2</a>	A <a href="#">X509Certificate2</a> object from the stored <a href="#">Certificate</a> requested by certificateName.

#### Exceptions

Type	Condition
<a href="#">KeyNotFoundException</a>	Thrown if requested certificate does not exist.

### GetSignatureInterface(string, string)

Returns a [X509SignatureInterface](#) object from the stored [Certificate](#) requested by `certificateName`.

#### Declaration

```
X509SignatureInterface GetSignatureInterface(string certificateName = null, string certificateAlias = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	<code>certificateName</code>	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.
<a href="#">string</a>	<code>certificateAlias</code>	The alias for getting the right certificate / key from the storage.

#### Returns

Type	Description
<a href="#">X509SignatureInterface</a>	A <a href="#">X509SignatureInterface</a> object from the stored <a href="#">Certificate</a> requested by <code>certificateName</code> .

#### Exceptions

Type	Condition
<a href="#">KeyNotFoundException</a>	Thrown if requested certificate does not exist.

### StoreCertificate(Certificate, string)

Stores certificate to certificate store. If certificate with same name already exists, it is overwritten.

#### Declaration

```
void StoreCertificate(Certificate certificate, string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">Certificate</a>	<code>certificate</code>	The <a href="#">Certificate</a> structure containing the external certificate.
<a href="#">string</a>	<code>certificateName</code>	The name of the certificate. If null or <a href="#">Empty</a> "Default" is used.

### StoreCertificate(Stream, string, bool, string)

Stores an external certificate to the fiscal module certificate store.

#### Declaration

```
void StoreCertificate(Stream pfxStream, string pfxPassword, bool overwrite = false, string certificateName = null)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	<code>pfxStream</code>	The stream containing the certificate in PKSC12 format. Stream must be at the beginning (Seek.Beginning).
<a href="#">string</a>	<code>pfxPassword</code>	The password to access the private key of the certificate.

Type	Name	Description
<a href="#">bool</a>	overwrite	True if a certificate which is already stored should be overwritten; otherwise false. Default is false.
<a href="#">string</a>	certificateName	The id of the certificate to store; if null the certificate is stored as default certificate.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfXStream</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>pfXPassword</code> is set to null or <a href="#">Empty</a> .
<a href="#">AlreadyExistsException</a>	Thrown if the given certificate already exists and parameter <code>overwrite</code> is set to false.

# Interface ISignatureInterface

Signature interface for signing data and verifying signatures.

## Inherited Members

[ISignatureVerifyInterface.VerifySignature\(byte\[\], string\)](#)

[ISignatureVerifyInterface.VerifySignature\(string, string\)](#)

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISignatureInterface : ISignatureVerifyInterface
```

## Methods

### SignData(byte[])

Creates a base64 url encoded signature for the given bytes of data.

#### Declaration

```
string SignData(byte[] data)
```

#### Parameters

Type Name	Description
<a href="#">byte[]</a> data	The data to create the signature.

#### Returns

Type	Description
<a href="#">string</a>	A base64 url encoded signature for the given bytes of data.

### SignData(string)

Creates a base64 url encoded signature for the given string (string will be converted to bytes using UTF8 Encoding).

#### Declaration

```
string SignData(string data)
```

#### Parameters

Type Name	Description
<a href="#">string</a> data	The data to create the signature (will be utf8 encoded).

#### Returns

Type	Description
<a href="#">string</a>	A base64 url encoded signature for the given string (string will be converted to bytes using UTF8 Encoding).

# Interface ISignatureVerifyInterface

Signature interface to verify signatures.

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface ISignatureVerifyInterface
```

## Methods

### VerifySignature(byte[], string)

Method to verify a previously generated signature.

#### Declaration

```
bool VerifySignature(byte[] data, string signature)
```

#### Parameters

Type	Name	Description
<a href="#">byte</a> []	data	The data which were signed.
<a href="#">string</a>	signature	The signature.

#### Returns

Type	Description
<a href="#">bool</a>	True if the signature is valid; otherwise false.

### VerifySignature(string, string)

Method to verify a previously generated signature.

#### Declaration

```
bool VerifySignature(string data, string signature)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	data	The data which were signed.
<a href="#">string</a>	signature	The signature.

#### Returns

Type	Description
<a href="#">bool</a>	True if the signature is valid; otherwise false.

# Class X509SignatureInterface

Represents a signature interface using X509 Signatures for signing data.

## Inheritance

[object](#)  
[X509SignatureVerifyInterface](#)  
X509SignatureInterface

## Implements

[ISignatureInterface](#)  
[ISignatureVerifyInterface](#)

## Inherited Members

[X509SignatureVerifyInterface.SignCertificate](#)  
[X509SignatureVerifyInterface.CertificateSerial](#)  
[X509SignatureVerifyInterface.VerifySignature\(byte\[\], string\)](#)  
[X509SignatureVerifyInterface.VerifySignature\(string, string\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public class X509SignatureInterface : X509SignatureVerifyInterface, ISignatureInterface, ISignatureVerifyInterface
```

## Constructors

### X509SignatureInterface(X509Certificate, AsymmetricKeyParameter)

#### Declaration

```
public X509SignatureInterface(X509Certificate certificate, AsymmetricKeyParameter privateKey)
```

#### Parameters

Type	Name	Description
X509Certificate	certificate	
AsymmetricKeyParameter	privateKey	

### X509SignatureInterface(Stream, string, string)

Constructor.

#### Declaration

```
public X509SignatureInterface(Stream input, string certificateAlias, string password)
```

#### Parameters

Type	Name	Description
<a href="#">Stream</a>	input	Input stream containing the data of a pfx file.



Type	Name	Description
<a href="#">string</a>	certificateAlias	The alias of the certificate (pfx file can contain more than one certificate). Can be empty string if only one certificate is stored in the pfx file.

<a href="#">string</a>	password	The password to open the pfx file.
------------------------	----------	------------------------------------

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>input</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>certificateAlias</code> is set to null or <a href="#">Empty</a> and more than one certificate is stored in the pfx file.
<a href="#">KeyNotFoundException</a>	Thrown if parameter <code>certificateAlias</code> is not found in the alias enumeration of all certificates (certificate is not found).
<a href="#">IOException</a>	Thrown if pfx data in stream is corrupted or password is wrong (also thrown if no password is needed and password is supplied).

#### Fields

##### PrivateKey

##### Declaration

```
protected AsymmetricKeyParameter PrivateKey
```

##### Field Value

Type	Description
<code>AsymmetricKeyParameter</code>	

#### Methods

##### GetPublicKeyAsPem()

Returns the public key as pem certificate data.

##### Declaration

```
public string GetPublicKeyAsPem()
```

##### Returns

##### Type Description

[string](#)

##### GetPublicKeyAsPem(X509Certificate)

Returns the public key as pem certificate data from the given certificate.

##### Declaration

```
public static string GetPublicKeyAsPem(X509Certificate x509Certificate)
```

##### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
X509Certificate	x509Certificate	The certificate to export the public key in pem format.

Returns

#### Type Description

[string](#)

Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>x509Certificate</code> is set to null.

#### SignData(byte[])

Creates a base64 url encoded signature for the given bytes of data.

Declaration

```
public string SignData(byte[] data)
```

Parameters

Type	Name	Description
<a href="#">byte[]</a>	data	The data to create the signature.

Returns

Type	Description
<a href="#">string</a>	A base64 url encoded signature for the given bytes of data.

#### SignData(string)

Creates a base64 url encoded signature for the given string (string will be converted to bytes using UTF8 Encoding).

Declaration

```
public string SignData(string data)
```

Parameters

Type	Name	Description
<a href="#">string</a>	data	The data to create the signature (will be utf8 encoded).

Returns

Type	Description
<a href="#">string</a>	A base64 url encoded signature for the given string (string will be converted to bytes using UTF8 Encoding).

#### SignDataPublic(byte[])

Signs the given bytes with public key of certificate.

## Declaration

```
public string SignDataPublic(byte[] data)
```

## Parameters

Type Name	Description
-----------	-------------

<a href="#">byte[]</a> data	The data to sign.
-----------------------------	-------------------

## Returns

Type	Description
------	-------------

<a href="#">string</a>	A base64 url encoded signature for the given bytes of data.
------------------------	---

## SignDataPublic(string)

Creates a base64 url encoded signature using the public key of the certificate for the given string (string will be converted to bytes using UTF8 Encoding).

## Declaration

```
public string SignDataPublic(string data)
```

## Parameters

Type Name	Description
-----------	-------------

<a href="#">string</a> data	The data to create the signature (will be utf8 encoded).
-----------------------------	--

## Returns

Type	Description
------	-------------

<a href="#">string</a>	A base64 url encoded signature for the given string (string will be converted to bytes using UTF8 Encoding).
------------------------	--

## Implements

[ISignatureInterface](#)

[ISignatureVerifyInterface](#)

# Class X509SignatureVerifyInterface

X509 certificate implementation to verify signatures (only public key necessary).

## Inheritance

[object](#)

X509SignatureVerifyInterface

[X509SignatureInterface](#)

## Implements

[ISignatureVerifyInterface](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class X509SignatureVerifyInterface : ISignatureVerifyInterface
```

## Constructors

### X509SignatureVerifyInterface()

Constructor.

### Declaration

```
public X509SignatureVerifyInterface()
```

### X509SignatureVerifyInterface(X509Certificate)

Constructor.

### Declaration

```
public X509SignatureVerifyInterface(X509Certificate signCertificate)
```

### Parameters

Type	Name	Description
X509Certificate	signCertificate	The X509 certificate containing the public key to verify the signatures.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>signCertificate</code> is set to null.

## Fields

## SignCertificate

### Declaration

```
protected X509Certificate SignCertificate
```

### Field Value

Type	Description
X509Certificate	

## Properties

### CertificateSerial

#### Declaration

```
public string CertificateSerial { get; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### VerifySignature(byte[], string)

Method to verify a previously generated signature.

#### Declaration

```
public bool VerifySignature(byte[] data, string signature)
```

#### Parameters

Type	Name	Description
<a href="#">byte[]</a>	data	The data which were signed.

<a href="#">string</a>	signature	The signature.
------------------------	-----------	----------------

#### Returns

Type	Description
<a href="#">bool</a>	True if the signature is valid; otherwise false.

### VerifySignature(string, string)

Method to verify a previously generated signature.

#### Declaration

```
public bool VerifySignature(string data, string signature)
```

#### Parameters

Type	Name	Description
------	------	-------------

Type	Name	Description
------	------	-------------

<a href="#">string</a>	data	The data which were signed.
------------------------	------	-----------------------------

<a href="#">string</a>	signature	The signature.
------------------------	-----------	----------------

#### Returns

Type	Description
------	-------------

<a href="#">bool</a>	True if the signature is valid; otherwise false.
----------------------	--

#### Implements

[ISignatureVerifyInterface](#)

# Namespace RetailForce.Fiscalisation.Signing.Jcs

## Classes

### [JsonCanonicalizer](#)

### [JsonClearTextSigner](#)

Signs an object (according to RFC 7159, using the JSON Canonicalization Scheme RFC 8785)

### [JsonClearTextVerifier](#)

Verifies an objects signature (according to RFC 7159, using the JSON Canonicalization Scheme RFC 8785)

### [NumberToJson](#)

## Interfaces

### [IJsonSigned](#)

Interface for objects to be signed by [JsonClearTextSigner](#).

# Interface IJsonSigned

Interface for objects to be signed by [JsonClearTextSigner](#).

Namespace: [RetailForce.Fiscalisation.Signing.Jcs](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IJsonSigned
```

## Properties

### Signature

The signature for the object to sign.

### Declaration

```
string Signature { get; set; }
```

### Property Value

### Type Description

[string](#)



# Class JsonCanonicalizer

## Inheritance

[object](#)

JsonCanonicalizer

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing.Jcs](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JsonCanonicalizer
```

## Constructors

### JsonCanonicalizer(byte[])

#### Declaration

```
public JsonCanonicalizer(byte[] jsonData)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">byte</a> []	jsonData	
-------------------------	----------	--

### JsonCanonicalizer(string)

#### Declaration

```
public JsonCanonicalizer(string jsonData)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	jsonData	
------------------------	----------	--

## Methods

### GetEncodedString()

#### Declaration

```
public string GetEncodedString()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	
------------------------	--

### GetEncodedUTF8()

**Declaration**

```
public byte[] GetEncodedUTF8 ()
```

**Returns****Type Description**

[byte](#)[]

# Class JsonClearTextSigner

Signs an object (according to RFC 7159, using the JSON Canonicalization Scheme RFC 8785)

## Inheritance

[object](#)  
[JsonClearTextVerifier](#)  
JsonClearTextSigner

## Inherited Members

[JsonClearTextVerifier.JsonSettings](#)  
[JsonClearTextVerifier.JsonSerializerSettings](#)  
[JsonClearTextVerifier.VerifySignature<TType>\(TType\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing.Jcs](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JsonClearTextSigner : JsonClearTextVerifier
```

## Remarks

<https://github.com/cyberphone/json-canonicalization/tree/master/dotnet> <https://cyberphone.github.io/doc/security/jose-jcs.html>  
<https://www.rfc-editor.org/rfc/rfc8785> <https://www.rfc-editor.org/rfc/rfc7515.txt>

## Constructors

### JsonClearTextSigner(ISignatureInterface)

Constructor.

#### Declaration

```
public JsonClearTextSigner(ISignatureInterface signer)
```

#### Parameters

Type	Name	Description
<a href="#">ISignatureInterface</a>	signer	An object implementing <a href="#">ISignatureInterface</a> used to sign the object. Not null.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>signer</code> is set to null.

## Methods

**SignObject<TType>(TType)**

Signs the object implementing interface [IJsonSigned](#).

#### Declaration

```
public TType SignObject<TType>(TType objectToSign) where TType : IJsonSigned
```

#### Parameters

Type	Name	Description
TType	objectToSign	The object implementing interface <a href="#">IJsonSigned</a> to sign. Signature returned in property <a href="#">Signature</a> .

#### Returns

Type	Description
TType	The signed object.

#### Type Parameters

Name	Description
TType	The type of the object to sign. Must inherit <a href="#">IJsonSigned</a> interface.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>objectToSign</code> is set to null.

### VerifySignatureResign<TType>(TType)

Verifies the signature by resigning and comparing signature of the object implementing interface [IJsonSigned](#).

#### Declaration

```
public bool VerifySignatureResign<TType>(TType objectToVerify) where TType : IJsonSigned
```

#### Parameters

Type	Name	Description
TType	objectToVerify	The object implementing interface <a href="#">IJsonSigned</a> to verify the signature.

#### Returns

Type	Description
<a href="#">bool</a>	True if the signature is valid; otherwise false.

#### Type Parameters

Name	Description
TType	The type of the object to verify the signature. Must inherit <a href="#">IJsonSigned</a> interface.

#### Exceptions

**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `objectToVerify` is set to null.

[ArgumentException](#) Thrown if object to verify (parameter `objectToVerify`) has no signature.

# Class JsonClearTextVerifier

Verifies an objects signature (according to RFC 7159, using the JSON Canonicalization Scheme RFC 8785)

## Inheritance

[object](#)

JsonClearTextVerifier

[JsonClearTextSigner](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing-Jcs](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class JsonClearTextVerifier
```

## Remarks

<https://github.com/cyberphone/json-canonicalization/tree/master/dotnet> <https://cyberphone.github.io/doc/security/jose-jcs.html>

<https://www.rfc-editor.org/rfc/rfc8785> <https://www.rfc-editor.org/rfc/rfc7515.txt>

## Constructors

### JsonClearTextVerifier(ISignatureVerifyInterface)

Constructor.

#### Declaration

```
public JsonClearTextVerifier (ISignatureVerifyInterface verifyInterface)
```

#### Parameters

Type	Name	Description
<a href="#">ISignatureVerifyInterface</a>	verifyInterface	The interface including the signature verify methods.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>verifyInterface</code> is set to null.

## Fields

### JsonSettings

#### Declaration

```
protected JsonSerializerSettings JsonSettings
```

## Field Value

Type	Description
JsonSerializerSettings	

## Properties

### JsonSerializerSettings

The used [JsonSerializerSettings](#).

## Declaration

```
public JsonSerializerSettings JsonSerializerSettings { get; }
```

## Property Value

Type	Description
JsonSerializerSettings	

## Methods

### VerifySignature<TType>(TType)

Verifies the signature of the object implementing interface [IJsonSigned](#).

## Declaration

```
public bool VerifySignature<TType>(TType objectToVerify) where TType : IJsonSigned
```

## Parameters

Type	Name	Description
TType	objectToVerify	The object implementing interface <a href="#">IJsonSigned</a> to verify the signature.

## Returns

Type	Description
<a href="#">bool</a>	True if the signature is valid; otherwise false.

## Type Parameters

Name	Description
TType	The type of the object to verify the signature. Must inherit <a href="#">IJsonSigned</a> interface.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>objectToVerify</code> is set to null.
<a href="#">ArgumentException</a>	Thrown if object to verify (parameter <code>objectToVerify</code> ) has no signature.

# Class NumberToJson

## Inheritance

[object](#)

NumberToJson

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing.Jcs](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public static class NumberToJson
```

## Methods

### SerializeNumber(double)

#### Declaration

```
public static string SerializeNumber(double value)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">double</a>	value	
------------------------	-------	--

#### Returns

#### Type Description

<a href="#">string</a>	
------------------------	--



# Namespace RetailForce.Fiscalisation.Signing.Xml

## Classes

[XAdESSignature](#)

# Class XAdESSignature

## Inheritance

[object](#)

XAdESSignature

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Signing.Xml](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class XAdESSignature
```

## Constructors

### XAdESSignature()

#### Declaration

```
public XAdESSignature()
```

### XAdESSignature(string)

#### Declaration

```
public XAdESSignature(string uniqueId)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	uniqueId	
------------------------	----------	--

### XAdESSignature(string, string)

#### Declaration

```
public XAdESSignature(string prefixSignatureElement, string prefixXadesElement)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	prefixSignatureElement	
------------------------	------------------------	--

<a href="#">string</a>	prefixXadesElement	
------------------------	--------------------	--

### XAdESSignature(string, string, string)

#### Declaration

```
public XAdESSignature(string uniqueId, string prefixSignatureElement, string prefixXadesElement)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	uniqueId	
------------------------	----------	--

<a href="#">string</a>	prefixSignatureElement	
------------------------	------------------------	--

<a href="#">string</a>	prefixXadesElement	
------------------------	--------------------	--

## Properties

### PolicyId

#### Declaration

```
public string PolicyId { get; set; }
```

Property Value

#### Type Description

[string](#)

#### PolicyIdHash

Declaration

```
public string PolicyIdHash { get; set; }
```

Property Value

#### Type Description

[string](#)

#### PrefixSignatureElement

Declaration

```
public string PrefixSignatureElement { get; set; }
```

Property Value

#### Type Description

[string](#)

#### PrefixXadesElement

Declaration

```
public string PrefixXadesElement { get; set; }
```

Property Value

#### Type Description

[string](#)

#### UniqueId

Declaration

```
public string UniqueId { get; set; }
```

Property Value

#### Type Description

[string](#)

#### Methods

##### SignXml(X509Certificate2, XmlDocument, AsymmetricAlgorithm, out Signature)

Declaration

```
public XmlElement SignXml(X509Certificate2 certificate, XmlDocument document, AsymmetricAlgorithm rsaAlg, out Signature signature)
```

Parameters

Type	Name	Description
<a href="#">X509Certificate2</a>	certificate	certificate
<a href="#">XmlDocument</a>	document	document
<a href="#">AsymmetricAlgorithm</a>	rsaAlg	rsaAlg
<a href="#">Signature</a>	signature	signature

Returns

#### Type Description

[XmlElement](#)

## SignXml(X509Certificate2, XmlDocument, out Signature)

### Declaration

```
public XmlElement SignXml(X509Certificate2 certificate, XmlDocument document, out Signature signature)
```

### Parameters

Type	Name	Description
<a href="#">X509Certificate2</a>	certificate	certificate
<a href="#">XmlDocument</a>	document	document
<a href="#">Signature</a>	signature	signature

### Returns

Type	Description
<a href="#">XmlElement</a>	

## VerifySignedXml(X509Certificate2, XmlDocument)

### Declaration

```
public string VerifySignedXml(X509Certificate2 certificate, XmlDocument document)
```

### Parameters

Type	Name	Description
<a href="#">X509Certificate2</a>	certificate	certificate
<a href="#">XmlDocument</a>	document	document

### Returns

Type	Description
<a href="#">string</a>	

# Namespace RetailForce.Fiscalisation.Storage

## Classes

### [DataStorage<TData>](#)

Abstract data storage for jwt token format styled storages.

### [FileStreamProvider](#)

StreamProvider to handle file system streams.

### [FiscalDataStorageProvider](#)

### [IntegerStorageRecord](#)

Simple implementation of [StorageRecord](#) just storing an integer (and the signature).

### [JsonFileStorage](#)

File storage system for json objects.

### [LocalFiscalDataStorageProvider](#)

### [MemoryStreamInternal](#)

### [MemoryStreamProvider](#)

### [StorageNameAttribute](#)

### [StorageRecord](#)

Storage record for storage streams.

### [StringStorageRecord](#)

Simple implementation of [StorageRecord](#) just storing a string.

## Interfaces

### [IStreamProvider](#)

Stream provider interface for storage. Serves read/write streams to read and write data.

# Class `DataStorage<TData>`

Abstract data storage for jwt token format styled storages.

## Inheritance

[object](#)

`DataStorage<TData>`

[SignatureTrail](#)

[EventLogStore](#)

[ChainingTrail](#)

[NumberTrail](#)

[AuditLogStore](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class DataStorage<TData> where TData : StorageRecord, new()
```

## Type Parameters

Name	Description
------	-------------

TData	The data record inherited from <a href="#">StorageRecord</a> representing the data.
-------	---

## Remarks

Storage format: {RecordDateTime:yyyyMMddHHmmssfff}.[base64-algorithm].[base64-data].[base64-signature]

## Constructors

### `DataStorage(IStreamProvider)`

Constructor.

## Declaration

```
protected DataStorage(IStreamProvider streamProvider)
```

## Parameters

Type	Name	Description
<a href="#">IStreamProvider</a>	streamProvider	The stream provider to access the data (read/write streams).

## Exceptions

Type	Condition
------	-----------

## Type

## Condition

[ArgumentNullException](#) Thrown if parameter `streamProvider` is set to null.

## Properties

### AlgorithmMandatory

True if the stored record has to have an algorithm section; otherwise false.

#### Declaration

```
public abstract bool AlgorithmMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

### EnsureRecordDateTimeAscending

True if new record data (property [RecordDateTime](#)) must be greater than the `RecordDateTime` of the last stored record. Default is true.

#### Declaration

```
public virtual bool EnsureRecordDateTimeAscending { get; }
```

#### Property Value

#### Type Description

[bool](#)

### SignatureMandatory

True if the stored record has to have a signature section; otherwise false.

#### Declaration

```
public abstract bool SignatureMandatory { get; }
```

#### Property Value

#### Type Description

[bool](#)

### UrlEncode

True if the data in the storage file is base64 url encoded (true); otherwise it is base64 encoded (false).

#### Declaration

```
public abstract bool UrlEncode { get; }
```

#### Property Value

#### Type Description

[bool](#)

## Methods

### FetchAllAfter(DateTime)

Returns all records after given `fetchDate`.

#### Declaration

```
public IEnumerable<TData> FetchAllAfter(DateTime fetchDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	<code>fetchDate</code>	The date to filter return records.

#### Returns

Type	Description
<a href="#">IEnumerable</a> <TData>	All records after given <code>fetchDate</code> .

#### FetchByDate(Date Time, Date Time)

Fetches all lines between `fromDate` (inclusive) and `tillDate` (inclusive).

#### Declaration

```
public List<TData> FetchByDate(DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	<code>fromDate</code>	Date from lines should be filtered (inclusive).
<a href="#">DateTime</a>	<code>tillDate</code>	Date till lines should be filtered (inclusive).

#### Returns

Type	Description
<a href="#">List</a> <TData>	A list of all lines between <code>fromDate</code> (inclusive) and <code>tillDate</code> (inclusive).

#### Remarks

Date filter parameter is stored only as date value.

#### Exceptions

Type	Condition
<a href="#">NullReferenceException</a>	Thrown if the stream provider returns a read stream which is null.
<a href="#">InvalidOperationException</a>	Thrown if the returned read stream is not read-able.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if parameter <code>tillDate</code> is smaller than parameter <code>fromDate</code> .
<a href="#">InvalidDataException</a>	Thrown if <a href="#">EnsureRecordDateTimeAscending</a> is set to false.



## FetchFirst()

Returns the first record of the storage.

### Declaration

```
public TData FetchFirst()
```

### Returns

Type	Description
------	-------------

TData	An object of type TData representing the first record of the storage. If no data is stored default is returned.
-------	---

### Exceptions

Type	Condition
------	-----------

<a href="#">NullReferenceException</a>	Thrown if the stream provider returns a read stream which is null.
--	--

<a href="#">InvalidOperationException</a>	Thrown if the returned read stream is not read-able.
---	--

## FetchLast(int)

Returns the last record of the storage.

### Declaration

```
public TData FetchLast(int lineNumber = 0)
```

### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	lineNumber	0 if you want to read the last line; the "lineNumber" line reading file backwards.
---------------------	------------	--

### Returns

Type	Description
------	-------------

TData	An object of type TData representing the last record of the storage. If no data is stored default is returned.
-------	--

### Exceptions

Type	Condition
------	-----------

<a href="#">NullReferenceException</a>	Thrown if the stream provider returns a read stream which is null.
--	--

<a href="#">InvalidOperationException</a>	Thrown if the returned read stream is not read-able.
---	--

## GetReadStream()

Returns a read-able stream to read data from the storage.

### Declaration

```
protected Stream GetReadStream()
```

## Returns

Type	Description
------	-------------

<a href="#">Stream</a>	A read-able stream to read data from the storage.
------------------------	---

## GetWriteStream()

Returns a write-able stream to push record data.

## Declaration

```
protected Stream GetWriteStream()
```

## Returns

Type	Description
------	-------------

<a href="#">Stream</a>	A write-able stream to push record data.
------------------------	--

## Push(TData)

Adds a new record to the data store.

## Declaration

```
public string Push(TData record)
```

## Parameters

Type Name	Description
-----------	-------------

TData record	The record to store.
--------------	----------------------

## Returns

Type	Description
------	-------------

<a href="#">string</a>	The data which was written to the file as string.
------------------------	---

## Remarks

Record is validated through [ValidateRecord\(TData, out string\)](#) method; If validation fails a [ValidationException](#) is thrown.

## Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>record</code> is set to null.
---------------------------------------	---

<a href="#">ArgumentException</a>	Thrown if data property of parameter <code>record</code> is set to null.
-----------------------------------	--

<a href="#">NullReferenceException</a>	Thrown if the stream provider returns a write stream which is null.
--	---

<a href="#">ReadOnlyException</a>	Thrown if returned write stream is read only.
-----------------------------------	---

**Type****Condition**

[MissingFieldException](#) Thrown if signature is expected but is not supplied.

[MissingFieldException](#) Thrown if algorithm is expected but is not supplied.

[ValidationException](#) Thrown if validation of record fails.

**ValidateRecord(TData, out string)**

Method to validate data record.

**Declaration**

```
protected virtual bool ValidateRecord(TData record, out string exceptionMessage)
```

**Parameters**

Type	Name	Description
------	------	-------------

TData	record	The record to validate (not null).
-------	--------	------------------------------------

[string](#) exceptionMessage The validation message if validation fails. [Empty](#) if validation succeeded.

**Returns**

Type	Description
------	-------------

<a href="#">bool</a>	True is validation succeeded; otherwise false. If false is returned do set appropriate <code>exceptionMessage</code> .
----------------------	--

**Remarks**

Standard validation: Record is null, RecordDateTime will be validated if [EnsureRecordDateTimeAscending](#) is set to true.

# Class FileStreamProvider

StreamProvider to handle file system streams.

## Inheritance

[object](#)  
FileStreamProvider

## Implements

[IStreamProvider](#)

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class FileStreamProvider : IStreamProvider
```

## Constructors

### FileStreamProvider(string, bool)

Constructor.

### Declaration

```
public FileStreamProvider(string filename, bool create = false)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	filename	The filename of the file which should be serve as read/write stream. The file must exist (see create parameter).
<a href="#">bool</a>	create	True if the file should be created if not existing; otherwise false.

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>filename</code> is set to null or <a href="#">Empty</a> .
<a href="#">FileNotFoundException</a>	Thrown if the given file is not found.

## Methods

### GetReadStream()

Returns a stream to read from.

#### Declaration

```
public Stream GetReadStream()
```

#### Returns

Type	Description
------	-------------

<a href="#">Stream</a>	An open read-able <a href="#">Stream</a> .
------------------------	--

#### Remarks

After successful operation the stream will be closed.

#### GetWriteStream()

Returns a stream to write.

#### Declaration

```
public Stream GetWriteStream()
```

#### Returns

Type	Description
------	-------------

<a href="#">Stream</a>	An open write-able <a href="#">Stream</a> .
------------------------	---

#### Remarks

After successful operation the stream will be closed.

#### ReadAllText()

Reads all data as string from the underlying stream.

#### Declaration

```
public string ReadAllText()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string representing all data as string from the underlying stream.
------------------------	--

#### WriteAllText(string)

Writes data in `text` as text to the underlying stream.

#### Declaration

```
public void WriteAllText(string text)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	<code>text</code>	The text to write to the stream.
------------------------	-------------------	----------------------------------

## **Implements**

[IStreamProvider](#)

# Class FiscalDataStorageProvider

## Inheritance

[object](#)

FiscalDataStorageProvider

[LocalFiscalDataStorageProvider](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class FiscalDataStorageProvider
```

## Properties

### CloudDbConnectionString

connection string to cloud database only required for cloud implementation

#### Declaration

```
public string CloudDbConnectionString { get; protected set; }
```

#### Property Value

### Type Description

[string](#)

### CloudServers

Clouds servers from blob access only required for cloud implementation

#### Declaration

```
public Dictionary<string, ICloudServer> CloudServers { get; protected set; }
```

#### Property Value

**Type**

**Description**

[Dictionary](#)<[string](#), ICloudServer>

### DocumentStorageProvider

#### Declaration

```
public IDocumentStorageProvider DocumentStorageProvider { get; protected set; }
```

#### Property Value

**Type**

**Description**

**Type**            **Description**

[IDocumentStorageProvider](#)

## **FiscalModuleEnvironment**

### **Declaration**

```
public abstract FiscalModuleEnvironment FiscalModuleEnvironment { get; }
```

### **Property Value**

**Type**            **Description**

[FiscalModuleEnvironment](#)

## **StorageBasePath**

### **Declaration**

```
[Obsolete("Do not use anymore according to cloud fiscalisation.")]  
public string StorageBasePath { get; set; }
```

### **Property Value**

### **Type Description**

[string](#)

## **UniqueReceiptIdProvider**

### **Declaration**

```
public IUniqueReceiptIdProvider UniqueReceiptIdProvider { get; protected set; }
```

### **Property Value**

**Type**            **Description**

[IUniqueReceiptIdProvider](#)



# Interface IStreamProvider

Stream provider interface for storage. Serves read/write streams to read and write data.

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IStreamProvider
```

## Methods

### GetReadStream()

Returns a stream to read from.

#### Declaration

```
Stream GetReadStream()
```

#### Returns

Type	Description
------	-------------

<a href="#">Stream</a>	An open read-able <a href="#">Stream</a> .
------------------------	--

#### Remarks

After successful operation the stream will be closed.

### GetWriteStream()

Returns a stream to write.

#### Declaration

```
Stream GetWriteStream()
```

#### Returns

Type	Description
------	-------------

<a href="#">Stream</a>	An open write-able <a href="#">Stream</a> .
------------------------	---

#### Remarks

After successful operation the stream will be closed.

### ReadAllText()

Reads all data as string from the underlying stream.

#### Declaration

```
string ReadAllText()
```

#### Returns

Type	Description
------	-------------

Type	Description
------	-------------

<a href="#">string</a>	A string representing all data as string from the underlying stream.
------------------------	--

### **WriteAllText(string)**

Writes data in `text` as text to the underlying stream.

#### **Declaration**

```
void WriteAllText(string text)
```

#### **Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	<code>text</code>	The text to write to the stream.
------------------------	-------------------	----------------------------------

# Class IntegerStorageRecord

Simple implementation of [StorageRecord](#) just storing an integer (and the signature).

## Inheritance

[object](#)  
[StorageRecord](#)  
IntegerStorageRecord

## Implements

[IEquatable<StorageRecord>](#)

## Inherited Members

[StorageRecord.Data](#)  
[StorageRecord.RecordDateTime](#)  
[StorageRecord.Signature](#)  
[StorageRecord.Algorithm\(\)](#)  
[StorageRecord.Equals\(StorageRecord\)](#)  
[StorageRecord.ResolveDataStorageRecord<TData>\(string, bool, bool, bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class IntegerStorageRecord : StorageRecord, IEquatable<StorageRecord>
```

## Constructors

### IntegerStorageRecord()

Constructor.

### Declaration

```
public IntegerStorageRecord()
```

### IntegerStorageRecord(int, DateTime?)

Constructor.

### Declaration

```
public IntegerStorageRecord(int value, DateTime? recordDateTime = null)
```

### Parameters

Type	Name	Description
<a href="#">int</a>	value	The integer to store.

[DateTime?](#) recordDateTime DateTime of the storage record. Can be null.

## Properties

### Value

The integer data which is stored.

### Declaration

```
[JsonProperty]  
public int Value { get; }
```

### Property Value

### Type Description

[int](#)

## Methods

### GetData()

Method to get data property. Override in inherited class to get data in string notation.

### Declaration

```
protected override string GetData()
```

### Returns

### Type Description

[string](#)

### Overrides

[StorageRecord.GetData\(\)](#)

### SetData(string)

Method to set data property. Override in inherited class to parse data if necessary.

### Declaration

```
protected override void SetData(string data)
```

### Parameters

### Type Name Description

[string](#) data The data to set.

### Overrides

[StorageRecord.SetData\(string\)](#)

### Exceptions

#### Type

#### Condition

[ArgumentNullException](#) Thrown if parameter `data` is set to null or [Empty](#).

## Implements

[IEquatable<T>](#)



## Class JsonFileStorage

File storage system for json objects.

### Inheritance

[object](#)

JsonFileStorage

### Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class JsonFileStorage
```

### Constructors

**JsonFileStorage(string, List<Type>, ILogger, List<string>)**

Constructor.

### Declaration

```
public JsonFileStorage(string storageBasePath, List<Type> allowedTypes, ILogger logger, List<string> attributes = null)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	storageBasePath	The base path for this json file storage library.
<a href="#">List&lt;Type&gt;</a>	allowedTypes	The allowed types for the objects to add. Must contain at least one type.
<a href="#">ILogger</a>	logger	Logger.
<a href="#">List&lt;string&gt;</a>	attributes	The attributes (propertyName) which are stored for searching the files. If property does not exist on object attribute is not stored to search.

### Remarks

Attributes are getting properties from objects (attribute = propertyName) To use another object use: TypeName.PropertyName => FiscalResponse.FiscalisationDocumentNumber To use string format use "{":  
PropertyName:format => BookDate:yyyyMMdd

**JsonFileStorage(string, List<Type>, ILogger, params string[])**

Constructor.

### Declaration

```
public JsonFileStorage(string storageBasePath, List<Type> allowedTypes, ILogger logger, params string[] attributes)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	storageBasePath	The base path for this json file storage library.
<a href="#">List&lt;Type&gt;</a>	allowedTypes	The allowed types for the objects to add. Must contain at least one type.
<a href="#">ILogger</a>	logger	Logger.
<a href="#">string[]</a>	attributes	The attributes (propertyName) which are stored for searching the files. If property does not exist on object attribute is not stored to search.

### Remarks

Attributes are getting properties from objects (attribute = propertyName) To use another object use: TypeName.PropertyName => FiscalResponse.FiscalisationDocumentNumber To use string format use "{":  
PropertyName:format => BookDate:yyyyMMdd

### Properties

#### AllowedTypes

Returns all types which can be stored to this json file storage.

### Declaration

```
public IReadOnlyCollection<Type> AllowedTypes { get; }
```

### Property Value

Type	Description
------	-------------

Type	Description
<a href="#">IReadOnlyCollection&lt;Type&gt;</a>	

## Methods

### AddObjects(object, Action<string, int, object>, Dictionary<string, string>, params object[])

Adds the primary object and possible additional objects to to json file storage.

#### Declaration

```
public void AddObjects(object primaryObject, Action<string, int, object> additionalStorageAction, Dictionary<string, string> additionalAttributes, params object[] objects)
```

#### Parameters

Type	Name	Description
<a href="#">object</a>	primaryObject	The primary object to add. Must not be null.
<a href="#">Action&lt;string, int, object&gt;</a>	additionalStorageAction	Action with is called when file was stored, parameter: fileEntryType, fileNumber, content (object).
<a href="#">Dictionary&lt;string, string&gt;</a>	additionalAttributes	Additional attributes to add to the attributes collection.
<a href="#">object[]</a>	objects	

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>primaryObject</code> is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if one or more of the type of the given objects is not supported. Allowed types are defined at constructor level.

### AddObjects(object, Action<string, int, object>, params object[])

Adds the primary object and possible additional objects to to json file storage.

#### Declaration

```
public void AddObjects(object primaryObject, Action<string, int, object> additionalStorageAction, params object[] objects)
```

#### Parameters

Type	Name	Description
<a href="#">object</a>	primaryObject	The primary object to add. Must not be null.
<a href="#">Action&lt;string, int, object&gt;</a>	additionalStorageAction	Action with is called when file was stored, parameter: fileEntryType, fileNumber, content (object).
<a href="#">object[]</a>	objects	

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>primaryObject</code> is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if one or more of the type of the given objects is not supported. Allowed types are defined at constructor level.

### AddObjects(object, Dictionary<string, string>, params object[])

Adds the primary object and possible additional objects to to json file storage.

#### Declaration

```
public void AddObjects(object primaryObject, Dictionary<string, string> additionalAttributes, params object[] objects)
```

#### Parameters

Type	Name	Description
<a href="#">object</a>	primaryObject	The primary object to add. Must not be null.
<a href="#">Dictionary&lt;string, string&gt;</a>	additionalAttributes	Additional attributes to add to the attributes collection.
<a href="#">object[]</a>	objects	

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>primaryObject</code> is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if one or more of the type of the given objects is not supported. Allowed types are defined at constructor level.

### AddObjects(object, params object[])

Adds the primary object and possible additional objects to to json file storage.

#### Declaration

```
public void AddObjects(object primaryObject, params object[] objects)
```

#### Parameters

Type	Name	Description
<a href="#">object</a>	primaryObject	The primary object to add. Must not be null.
<a href="#">object[]</a>	objects	objects

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>primaryObject</code> is set to null.
<a href="#">ArgumentOutOfRangeException</a>	Thrown if one or more of the type of the given objects is not supported. Allowed types are defined at constructor level.

#### CreateZip(string, Dictionary<string, string>, Func<Dictionary<string, string>, string, string>)

Creates a zip file out of the json storage data.

#### Declaration

```
public void CreateZip(string zipFilename, Dictionary<string, string> jsonEntries = null, Func<Dictionary<string, string>, string, string> filenameCreation = null)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	zipFilename	The filename of the zip file. If file does not exist, it will be created.
<a href="#">Dictionary&lt;string, string&gt;</a>	jsonEntries	Dictionary to add additional entries (not in json storage) to the zip file. Can be null.
<a href="#">Func&lt;Dictionary&lt;string, string&gt;, string, string&gt;</a>	filenameCreation	Function to generate the entry file name for each entry, parameters: (entryAttributes, typename). Return value file name in the zip file for the individual entry.

#### EraseObjects()

Removes all objects from store and the index. Cannot be undone.

#### Declaration

```
public void EraseObjects()
```

#### GetLastObject<TType>()

Returns the last stored object of type `TType`.

#### Declaration

```
public TType GetLastObject<TType>()
```

#### Returns

Type	Description
<code>TType</code>	The last stored object of type <code>TType</code> .

#### Type Parameters

Name	Description
<code>TType</code>	The type of the requested object.

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types ( <a href="#">AllowedTypes</a> ).

#### GetObject<TType>(string, string)

Returns the requested object for the requested attribute and value.

#### Declaration

```
public TType GetObject<TType>(string attribute, string attributeValue)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	attribute	The name of the attribute to search the object.
<a href="#">string</a>	attributeValue	The value of the attribute to search the object.

#### Returns



Type	Description
------	-------------

TType The requested object for the requested attribute and value.

#### Type Parameters

Name	Description
------	-------------

TType The type which should be returned.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>attribute</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentOutOfRangeException</a>	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types ( <a href="#">AllowedTypes</a> ).
<a href="#">KeyNotFoundException</a>	Thrown if the object with the given parameters is not found.

#### GetObjects<TType>()

Returns all objects of type `TType`.

#### Declaration

```
public IEnumerable<TType> GetObjects<TType>()
```

#### Returns

Type	Description
<a href="#">IEnumerable&lt;TType&gt;</a>	All objects of type <code>TType</code> . Null if directory does not exist.

#### Type Parameters

Name	Description
------	-------------

TType The type where the objects are requested.

#### Exceptions

Type	Condition
<a href="#">ArgumentOutOfRangeException</a>	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types ( <a href="#">AllowedTypes</a> ).

#### ObjectExists<TType>(string, string)

Returns whether the requested object exists or not.

#### Declaration

```
public bool ObjectExists<TType>(string attribute, string attributeValue)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	<code>attribute</code>	The name of the attribute to search the object.
<a href="#">string</a>	<code>attributeValue</code>	The value of the attribute to search the object.

#### Returns

Type	Description
<a href="#">bool</a>	True if the requested object exists; otherwise false.

#### Type Parameters

Name	Description
------	-------------

TType The type which should be returned.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>attribute</code> is set to null or <a href="#">Empty</a> .
<a href="#">ArgumentOutOfRangeException</a>	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types ( <a href="#">AllowedTypes</a> ).

#### RebuildIndex(Type, Func<string, Type, object>, Func<string, Dictionary<string, string>>)

Recreates index file.

**Declaration**

```
public void RebuildIndex(Type primaryObjectType, Func<string, Type, object> getObject, Func<string, Dictionary<string, string>> additionalAttributes = null)
```

**Parameters**

Type	Name	Description
<a href="#">Type</a>	primaryObjectType	The type of the primary object to rebuild the index.
<a href="#">Func&lt;string, Type, object&gt;</a>	getObject	Method to fetch the object by filename and type.
<a href="#">Func&lt;string, Dictionary&lt;string, string&gt;&gt;</a>	additionalAttributes	Method to fetch additional attributes depending on filename of primary object filename. Optional.

**Exceptions**

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>primaryObjectType</code> is set to null.
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>getObject</code> is set to null.

# Class LocalFiscalDataStorageProvider

## Inheritance

[object](#)  
[FiscalDataStorageProvider](#)  
LocalFiscalDataStorageProvider

## Inherited Members

[FiscalDataStorageProvider.DocumentStorageProvider](#)  
[FiscalDataStorageProvider.UniqueReceiptIdProvider](#)  
[FiscalDataStorageProvider.CloudServers](#)  
[FiscalDataStorageProvider.CloudDbConnectionString](#)  
[FiscalDataStorageProvider.StorageBasePath](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LocalFiscalDataStorageProvider : FiscalDataStorageProvider
```

## Constructors

### LocalFiscalDataStorageProvider(ILogger, Guid, string)

#### Declaration

```
public LocalFiscalDataStorageProvider(ILogger logger, Guid clientId, string storageBasePath = "")
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">Guid</a>	clientId	
<a href="#">string</a>	storageBasePath	

## Properties

### FiscalModuleEnvironment

#### Declaration

```
public override FiscalModuleEnvironment FiscalModuleEnvironment { get; }
```

#### Property Value

Type	Description
<a href="#">FiscalModuleEnvironment</a>	

## Overrides

[FiscalDataStorageProvider.FiscalModuleEnvironment](#)

# Class MemoryStreamInternal

## Inheritance

[object](#)  
[MarshalByRefObject](#)  
[Stream](#)  
[MemoryStream](#)  
MemoryStreamInternal

## Implements

[IAsyncDisposable](#)  
[IDisposable](#)

## Inherited Members

[MemoryStream.BeginRead\(byte\[\], int, int, AsyncCallback, object\)](#)  
[MemoryStream.BeginWrite\(byte\[\], int, int, AsyncCallback, object\)](#)  
[MemoryStream.CopyTo\(Stream, int\)](#)  
[MemoryStream.CopyToAsync\(Stream, int, CancellationToken\)](#)  
[MemoryStream.Dispose\(bool\)](#)  
[MemoryStream.EndRead\(IAsyncResult\)](#)  
[MemoryStream.EndWrite\(IAsyncResult\)](#)  
[MemoryStream.Flush\(\)](#)  
[MemoryStream.FlushAsync\(CancellationToken\)](#)  
[MemoryStream.GetBuffer\(\)](#)  
[MemoryStream.Read\(byte\[\], int, int\)](#)  
[MemoryStream.Read\(Span<byte>\)](#)  
[MemoryStream.ReadAsync\(byte\[\], int, int, CancellationToken\)](#)  
[MemoryStream.ReadAsync\(Memory<byte>, CancellationToken\)](#)  
[MemoryStream.ReadByte\(\)](#)  
[MemoryStream.Seek\(long, SeekOrigin\)](#)  
[MemoryStream.SetLength\(long\)](#)  
[MemoryStream.ToArray\(\)](#)  
[MemoryStream.TryGetBuffer\(out ArraySegment<byte>\)](#)  
[MemoryStream.Write\(byte\[\], int, int\)](#)  
[MemoryStream.Write\(ReadOnlySpan<byte>\)](#)  
[MemoryStream.WriteAsync\(byte\[\], int, int, CancellationToken\)](#)  
[MemoryStream.WriteAsync\(ReadOnlyMemory<byte>, CancellationToken\)](#)  
[MemoryStream.WriteByte\(byte\)](#)  
[MemoryStream.WriteTo\(Stream\)](#)  
[MemoryStream.CanRead](#)  
[MemoryStream.CanSeek](#)  
[MemoryStream.CanWrite](#)  
[MemoryStream.Capacity](#)  
[MemoryStream.Length](#)  
[MemoryStream.Position](#)  
[Stream.Null](#)  
[Stream.CopyTo\(Stream\)](#)  
[Stream.CopyToAsync\(Stream\)](#)  
[Stream.CopyToAsync\(Stream, int\)](#)  
[Stream.CopyToAsync\(Stream, CancellationToken\)](#)  
[Stream.CreateWaitHandle\(\)](#)  
[Stream.Dispose\(\)](#)  
[Stream.DisposeAsync\(\)](#)  
[Stream.FlushAsync\(\)](#)  
[Stream.ObjectInvariant\(\)](#)  
[Stream.ReadAsync\(byte\[\], int, int\)](#)  
[Stream.Synchronized\(Stream\)](#)  
[Stream.ValidateBufferArguments\(byte\[\], int, int\)](#)  
[Stream.ValidateCopyToArguments\(Stream, int\)](#)  
[Stream.WriteAsync\(byte\[\], int, int\)](#)  
[Stream.CanTimeout](#)  
[Stream.ReadTimeout](#)

[Stream.WriteTimeout](#)  
[MarshalByRefObject.GetLifetimeService\(\)](#)  
[MarshalByRefObject.InitializeLifetimeService\(\)](#)  
[MarshalByRefObject.MemberwiseClone\(bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

### Syntax

```
public class MemoryStreamInternal : MemoryStream, IAsyncDisposable, IDisposable
```

## Constructors

### MemoryStreamInternal(MemoryStream)

#### Declaration

```
public MemoryStreamInternal(MemoryStream destinationStream)
```

#### Parameters

Type	Name	Description
<a href="#">MemoryStream</a>	destinationStream	

## Methods

### Close()

Closes the current stream and releases any resources (such as sockets and file handles) associated with the current stream. Instead of calling this method, ensure that the stream is properly disposed.

#### Declaration

```
public override void Close()
```

#### Overrides

[Stream.Close\(\)](#)

## Implements

[IAsyncDisposable](#)  
[IDisposable](#)

# Class MemoryStreamProvider

## Inheritance

[object](#)

MemoryStreamProvider

## Implements

[IStreamProvider](#)

## Inherited Members

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class MemoryStreamProvider : IStreamProvider
```

## Methods

### GetReadStream()

Returns a stream to read from.

#### Declaration

```
public Stream GetReadStream()
```

#### Returns

Type	Description
------	-------------

<a href="#">Stream</a>	An open read-able <a href="#">Stream</a> .
------------------------	--

#### Remarks

After successful operation the stream will be closed.

### GetWriteStream()

Returns a stream to write.

#### Declaration

```
public Stream GetWriteStream()
```

#### Returns

Type	Description
------	-------------

<a href="#">Stream</a>	An open write-able <a href="#">Stream</a> .
------------------------	---

**Remarks**

After successful operation the stream will be closed.

**ReadAllText()**

Reads all data as string from the underlying stream.

**Declaration**

```
public string ReadAllText()
```

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	A string representing all data as string from the underlying stream.
------------------------	--

**WriteAllText(string)**

Writes data in `text` as text to the underlying stream.

**Declaration**

```
public void WriteAllText(string text)
```

**Parameters**

Type	Name	Description
------	------	-------------

<a href="#">string</a>	<code>text</code>	The text to write to the stream.
------------------------	-------------------	----------------------------------

**Implements**

[IStreamProvider](#)

# Class StorageNameAttribute

## Inheritance

[object](#)  
[Attribute](#)  
StorageNameAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[AttributeUsage(AttributeTargets.Class)]  
public class StorageNameAttribute : Attribute
```

## Constructors

**StorageNameAttribute(string)**



**Declaration**

```
public StorageNameAttribute(string name)
```

**Parameters****Type Name Description**

[string](#) name

**Properties****Name****Declaration**

```
public string Name { get; }
```

**Property Value****Type Description**

[string](#)

# Class StorageRecord

Storage record for storage streams.

## Inheritance

[object](#)  
[StorageRecord](#)  
[JetEntry](#)  
[ChainingTrailRecord](#)  
[AuditLogEntry](#)  
[IntegerStorageRecord](#)  
[StringStorageRecord](#)

## Implements

[IEquatable<StorageRecord>](#)

## Inherited Members

[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class StorageRecord : IEquatable<StorageRecord>
```

## Remarks

Storage format: [{base64-algorithm}.]{base64-data}[.{base64-signature}]

## Properties

### Data

The plain data in utf8 encoding.

### Declaration

```
[JsonIgnore]  
public string Data { get; protected set; }
```

### Property Value

### Type Description

[string](#)

### Remarks

The data will be base64- or base64-url-encoded (depending on [UrlEncode](#)).

### RecordDateTime

The datetime for this storage record.

### Declaration

```
public DateTime RecordDateTime { get; set; }
```

### Property Value

### Type Description

[DateTime](#)

### Signature

The signature for the data (base64 encoded or base64 url encoded ([UrlEncode](#))).

### Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public string Signature { get; set; }
```

### Property Value

### Type Description

[string](#)

## Methods

### Algorithm()

Returns a possible algorithm for the storage record. Empty string can be returned.

### Declaration

```
public virtual string Algorithm()
```

Returns

Type	Description
------	-------------

[string](#) A possible algorithm for the storage record. Empty string can be returned.

#### Equals(StorageRecord)

Indicates whether the current object is equal to another object of the same type.

Declaration

```
public bool Equals(StorageRecord other)
```

Parameters

Type	Name	Description
------	------	-------------

[StorageRecord](#) other An object to compare with this object.

Returns

Type	Description
------	-------------

[bool](#) [true](#) if the current object is equal to the `other` parameter; otherwise, [false](#).

#### GetData()

Method to get data property. Override in inherited class to get data in string notation.

Declaration

```
protected abstract string GetData()
```

Returns

**Type Description**

[string](#)

#### ResolveDataStorageRecord<TData>(string, bool, bool, bool)

Resolves a storage record stored in format `yyyymmddhhmmssnn.algorithm.data.signature`

Declaration

```
public static TData ResolveDataStorageRecord<TData>(string data, bool algorithmMandatory, bool signatureMandatory, bool urlEncode) where TData : StorageRecord, new()
```

Parameters

Type	Name	Description
------	------	-------------

[string](#) data The data to

[bool](#) algorithmMandatory True if the algorithm must exist.

[bool](#) signatureMandatory True if the signature must exist.

[bool](#) urlEncode True if the data is url-encoded.

Returns

Type	Description
------	-------------

TData The StorageRecord of type TData.

Type Parameters

Name	Description
------	-------------

TData The type which should be returned.

#### SetData(string)

Method to set data property. Override in inherited class to parse data if necessary.

Declaration

```
protected abstract void SetData(string data)
```

Parameters

Type Name	Description
-----------	-------------

[string](#) data The data to set.

## Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>data</code> is set to null or <a href="#">Empty</a> .

## Implements

[IEquatable<T>](#)

# Class StringStorageRecord

Simple implementation of [StorageRecord](#) just storing a string.

## Inheritance

[object](#)  
[StorageRecord](#)  
StringStorageRecord

## Implements

[IEquatable<StorageRecord>](#)

## Inherited Members

[StorageRecord.Data](#)  
[StorageRecord.RecordDateTime](#)  
[StorageRecord.Signature](#)  
[StorageRecord.Algorithm\(\)](#)  
[StorageRecord.Equals\(StorageRecord\)](#)  
[StorageRecord.ResolveDataStorageRecord<TData>\(string, bool, bool, bool\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)

Namespace: [RetailForce.Fiscalisation.Storage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class StringStorageRecord : StorageRecord, IEquatable<StorageRecord>
```

## Constructors

### StringStorageRecord()

Constructor.

### Declaration

```
public StringStorageRecord()
```

### StringStorageRecord(string, DateTime?)

Constructor.

### Declaration

```
public StringStorageRecord(string dataString, DateTime? recordDateTime = null)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	dataString	The data string store.

[DateTime?](#) recordDateTime DateTime of the storage record. Can be null.

## Properties

### DataString

The data string which is stored.

#### Declaration

```
[JsonProperty("DataString")]  
public string DataString { get; }
```

#### Property Value

#### Type Description

[string](#)

## Methods

### GetData()

Method to get data property. Override in inherited class to get data in string notation.

#### Declaration

```
protected override string GetData()
```

#### Returns

#### Type Description

[string](#)

#### Overrides

[StorageRecord.GetData\(\)](#)

### SetData(string)

Method to set data property. Override in inherited class to parse data if necessary.

#### Declaration

```
protected override void SetData(string data)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	data	The data to set.
------------------------	------	------------------

#### Overrides

[StorageRecord.SetData\(string\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>data</code> is set to null or <a href="#">Empty</a> .

### ToString()

Returns a string that represents the current object.

**Declaration**

```
public override string ToString()
```

**Returns**

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the current object.
------------------------	--

**Overrides**

[object.ToString\(\)](#)

**Implements**

[IEquatable<T>](#)

# Namespace RetailForce.Fiscalisation.Storage.AuditLog

## Classes

### [AuditLogStore](#)

Storage class to store audit log records.



# Class AuditLogStore

Storage class to store audit log records.

## Inheritance

[object](#)

[DataStorage<AuditLogEntry>](#)

AuditLogStore

## Inherited Members

[DataStorage<AuditLogEntry>.EnsureRecordDateTimeAscending](#)

[DataStorage<AuditLogEntry>.Push\(AuditLogEntry\)](#)

[DataStorage<AuditLogEntry>.FetchLast\(int\)](#)

[DataStorage<AuditLogEntry>.FetchFirst\(\)](#)

[DataStorage<AuditLogEntry>.FetchByDate\(DateTime, DateTime\)](#)

[DataStorage<AuditLogEntry>.FetchAllAfter\(DateTime\)](#)

[DataStorage<AuditLogEntry>.ValidateRecord\(AuditLogEntry, out string\)](#)

[DataStorage<AuditLogEntry>.GetWriteStream\(\)](#)

[DataStorage<AuditLogEntry>.GetReadStream\(\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage.AuditLog](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class AuditLogStore : DataStorage<AuditLogEntry>
```

## Constructors

### AuditLogStore(IStreamProvider)

Constructor.

### Declaration

```
public AuditLogStore(IStreamProvider dataStreamProvider)
```

### Parameters

Type	Name	Description
<a href="#">IStreamProvider</a>	dataStreamProvider	

### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>streamProvider</code> is set to null.

## Properties

### AlgorithmMandatory

True if the stored record has to have an algorithm section; otherwise false.

**Declaration**

```
public override bool AlgorithmMandatory { get; }
```

**Property Value****Type Description**

[bool](#)

**Overrides**

[DataStorage<AuditLogEntry>.AlgorithmMandatory](#)

**SignatureMandatory**

True if the stored record has to have a signature section; otherwise false.

**Declaration**

```
public override bool SignatureMandatory { get; }
```

**Property Value****Type Description**

[bool](#)

**Overrides**

[DataStorage<AuditLogEntry>.SignatureMandatory](#)

**UrlEncode**

True if the data in the storage file is base64 url encoded (true); otherwise it is base64 encoded (false).

**Declaration**

```
public override bool UrlEncode { get; }
```

**Property Value****Type Description**

[bool](#)

**Overrides**

[DataStorage<AuditLogEntry>.UrlEncode](#)

# Namespace RetailForce.Fiscalisation.Storage.DocumentStorage

## Classes

[DocumentStorageProviderBase](#)

[LocalDocumentStorageProvider](#)

## Interfaces

[IDocumentStorageProvider](#)

# Class DocumentStorageProviderBase

## Inheritance

[object](#)  
[LoggingBase](#)  
[DocumentStorageProviderBase](#)  
[LocalDocumentStorageProvider](#)

## Implements

[IDocumentStorageProvider](#)

## Inherited Members

[LoggingBase.Logger](#)  
[LoggingBase.LogSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage.DocumentStorage](#)

Assembly: [RetailForce.Fiscalisation.dll](#)

## Syntax

```
public abstract class DocumentStorageProviderBase : LoggingBase, IDocumentStorageProvider
```

## Constructors

### DocumentStorageProviderBase(ILogger, Guid)

Creates an instance

#### Declaration

```
public DocumentStorageProviderBase(ILogger logger, Guid clientId)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	A <a href="#">ILogger</a> object for logging purposes
<a href="#">Guid</a>	clientId	The unique id of the client

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if any of the given parameters is null.

## Properties

### ClientId

#### Declaration

```
protected Guid ClientId { get; }
```

#### Property Value

#### Type Description

[Guid](#)

### StoreErrorDocumentsToDisk

If set to true any error document will be stored.

#### Declaration

```
public abstract bool StoreErrorDocumentsToDisk { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Remarks

If fiscal client is used in cloud environment feature is disabled

## Methods

### DocumentExists(Guid, int)

Returns whether the requested document exists in the internal document store.

#### Declaration

```
public abstract bool DocumentExists(Guid documentGuid, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid of the requested document.

<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.
---------------------	----------	---

#### Returns

Type	Description
<a href="#">bool</a>	True if the requested document exists; otherwise false. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter documentGuid is set to <a href="#">Empty</a> .

#### DocumentExists(string, int)

Returns whether the requested document exists in the internal document store.

#### Declaration

```
public abstract bool DocumentExists(string documentId, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>

<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.
---------------------	----------	---

#### Returns

Type	Description
<a href="#">bool</a>	True if the requested document exists; otherwise false.

#### Remarks

If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter documentId is set to null or empty string.

#### ExportDep131(FiscalClient, DateTime, DateTime, Stream)

Exports Dep 131 to outputstream where bookdate is in from/tilldate range

#### Declaration

```
public abstract void ExportDep131(FiscalClient fiscalClient, DateTime fromDate, DateTime tillDate, Stream outputStream)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	fiscalClient	The configuration of the fiscal client.

<a href="#">DateTime</a>	fromDate	The starting date (including) of the document bookdate.
--------------------------	----------	---

<a href="#">DateTime</a>	tillDate	The end date (including) of the document bookdate
--------------------------	----------	---

<a href="#">Stream</a>	outputStream	Stream within the exportdata
------------------------	--------------	------------------------------

#### FetchStoredDocuments(DateTime, DateTime)

Returns all stored documents including their [FiscalResponse](#) in the given date range.

#### Declaration

```
public abstract IEnumerable<StoredDocument> FetchStoredDocuments(DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	fromDate	The starting date (including) where the documents should be returned. Only the date part is used to filter.

Type	Name	Description
<a href="#">DateTime</a>	tillDate	The end date (including the day) where the documents should be returned. Only the date part is used to filter.

#### Returns

Type	Description
<a href="#">IEnumerable&lt;StoredDocument&gt;</a>	A enumerable list of <a href="#">StoredDocument</a> objects representing all stored documents including their <a href="#">FiscalResponse</a> in the given date range.

#### Remarks

The given date range reflects the datetime of the closing not of the stored document itself. The actual open closing is not included.

#### GetActualDocuments()

Returns a list of documents within all documents since the last closing

#### Declaration

```
public abstract List<Document> GetActualDocuments()
```

#### Returns

Type	Description
<a href="#">List&lt;Document&gt;</a>	A List of documents <a href="#">Document</a>

#### GetDocument(Guid, int)

Returns the requested document if stored in the internal storage.

#### Declaration

```
public abstract Document GetDocument(Guid documentGuid, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">Document</a>	The requested document if stored in the internal storage.

#### Remarks

Returns null if the requested document or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .

#### GetDocument(int, int)

Returns the requested document if stored in the internal storage.

#### Declaration

```
public abstract Document GetDocument(int fiscalDocumentNr, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNr	The fiscal document number of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">Document</a>	The requested document if stored in the internal storage. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### GetDocument(string, int)

Returns the requested document if stored in the internal storage.

#### Declaration

```
public abstract Document GetDocument(string documentId, int daysBack = -1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>
------------------------	------------	---

<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.
---------------------	----------	---

#### Returns

Type	Description
------	-------------

<a href="#">Document</a>	The requested document if stored in the internal storage.
--------------------------	---

#### Remarks

Returns null if the requested document or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentId</code> is set to null or empty string.
---------------------------------------	---

#### GetDocumentResponse(Guid, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

```
public abstract FiscalResponse GetDocumentResponse(Guid documentGuid, int daysBack = -1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">Guid</a>	documentGuid	The document guid of the requested document.
----------------------	--------------	--

<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.
---------------------	----------	---

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.
--------------------------------	---

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .
---------------------------------------	---

#### GetDocumentResponse(int, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

```
public abstract FiscalResponse GetDocumentResponse(int fiscalDocumentNr, int daysBack = -1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">int</a>	fiscalDocumentNr	The fiscal document number of the requested document.
---------------------	------------------	---

<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.
---------------------	----------	---

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.
--------------------------------	---

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the response will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all responses will be check that are an any closing of the current day.

#### GetDocumentResponse(string, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

```
public abstract FiscalResponse GetDocumentResponse(string documentId, int daysBack = -1)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>
------------------------	------------	---

<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.
---------------------	----------	---

#### Returns

Type	Description
------	-------------

<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.
--------------------------------	---

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
------	-----------

<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentId</code> is set to null or empty string.
---------------------------------------	---

#### GetEndOfDayDocument(FiscalClient, bool, User)

Returns the end of day document for the actual day.

#### Declaration

```
public Document GetEndOfDayDocument(FiscalClient client, bool closeMonth = false, User user = null)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">FiscalClient</a>	client	The configuration of the fiscal client.
------------------------------	--------	---

<a href="#">bool</a>	closeMonth	True if the parameter CLOSING_CLOSEMONTH should be set. Otherwise false.
----------------------	------------	--

<a href="#">User</a>	user	A possible user for the end of day document. In certain countries it is necessary to have an user, therefore you should add the user.
----------------------	------	---

#### Returns

Type	Description
------	-------------

<a href="#">Document</a>	The end of day document for the actual day.
--------------------------	---

#### Remarks

You have to call this function before sending the end of day document!

#### GetLastClosingDateTime()

Returns the date of the last closing

#### Declaration

```
public abstract DateTimeOffset? GetLastClosingDateTime()
```

#### Returns

Type	Description
------	-------------

<a href="#">DateTimeOffset?</a>	The date of the last closing, null if no closing is available
---------------------------------	---

#### GetLastDocument(bool)

Returns the last stored document from document store.

#### Declaration

```
public abstract Document GetLastDocument(bool onlyActual = true)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">bool</a>	onlyActual	True if only the actual day is searched and nothing is returned if no document was stored; Otherwise false (to search also the last closing).
----------------------	------------	---

#### Returns

Type	Description
------	-------------

<a href="#">Document</a>	The requested document. Null if no last document was stored (depending on <code>onlyActual</code> ).
--------------------------	--

#### GetLastDocumentResponse(bool)

Returns the last stored fiscal Response for the last document.

#### Declaration

```
public abstract FiscalResponse GetLastDocumentResponse(bool onlyActual = true)
```



#### Parameters

Type	Name	Description
<a href="#">bool</a>	onlyActual	True if only the actual day is searched and nothing is returned if no document was stored; Otherwise false (to search also the last closing).

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The last stored fiscal Response for the last document. Null if no last document was stored (depending on <a href="#">onlyActual</a> ).

#### GetNextEndOfDayNumber()

Returns the unique key for the next end of day

#### Declaration

```
public abstract string GetNextEndOfDayNumber()
```

#### Returns

Type	Description
<a href="#">string</a>	Returns a string with the next end of day number

#### StoreDocumentDocumentStore(IFiscalModulImplementation, FiscalClient, Document, FiscalResponse, string, string)

Stores a document to DocumentStore

#### Declaration

```
public abstract void StoreDocumentDocumentStore(IFiscalModulImplementation fiscalModule, FiscalClient client, Document document, FiscalResponse response, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalModulImplementation</a>	fiscalModule	The fiscal Module implementation <a href="#">IFiscalModulImplementation</a> for communcation with the cloud
<a href="#">FiscalClient</a>	client	The Fiscalclient <a href="#">FiscalClient</a> within informations about the client
<a href="#">Document</a>	document	The document <a href="#">Document</a> to store.
<a href="#">FiscalResponse</a>	response	The fiscalResponse <a href="#">FiscalResponse</a> of the document
<a href="#">string</a>	cloudApiKey	A String with the cloud api key for communication with the cloud, only required for a local implementation.
<a href="#">string</a>	cloudApiSecret	A string with the cloud api secret for the communication with the cloud, only required for a local implementation.

#### StoreDocumentErrorInformation(DocumentErrorInformation)

Stores the document and its error information to disk. This will only be done if parameter [StoreErrorDocumentsToDisk](#) is set to true.

#### Declaration

```
public abstract void StoreDocumentErrorInformation(DocumentErrorInformation errorInformation)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentErrorInformation</a>	errorInformation	The error information containing the <a href="#">Document</a> and a list of errors to store.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>errorInformation</code> is set to null and <a href="#">StoreErrorDocumentsToDisk</a> is set to true.

[NotImplementedException](#) If this feature is enabled at cloud environment this functions throws an exception.

#### Implements

[IDocumentStorageProvider](#)

# Interface IDocumentStorageProvider

Namespace: [RetailForce.Fiscalisation.Storage.DocumentStorage](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface IDocumentStorageProvider
```

## Properties

### StoreErrorDocumentsToDisk

If set to true any error document will be stored.

Declaration

```
bool StoreErrorDocumentsToDisk { get; set; }
```

Property Value

#### Type Description

[bool](#)

Remarks

If fiscal client is used in cloud environment feature is disabled

## Methods

### DocumentExists(Guid, int)

Returns whether the requested document exists in the internal document store.

Declaration

```
bool DocumentExists(Guid documentGuid, int daysBack = -1)
```

Parameters

Type	Name	Description
------	------	-------------

[Guid](#) documentGuid The document guid of the requested document.

[int](#) daysBack Optional. Number of days to search back. Default: only current closing.

Returns

Type	Description
------	-------------

[bool](#) True if the requested document exists; otherwise false. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter documentGuid is set to [Empty](#).

### DocumentExists(string, int)

Returns whether the requested document exists in the internal document store.

Declaration

```
bool DocumentExists(string documentId, int daysBack = -1)
```

Parameters

Type	Name	Description
------	------	-------------

[string](#) documentId The id of the document [DocumentId](#)

[int](#) daysBack Optional. Number of days to search back. Default: only current closing.

Returns

Type	Description
------	-------------

[bool](#) True if the requested document exists; otherwise false.

Remarks

If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter documentId is set to null or empty string.

### ExportDep131(FiscalClient, DateTime, DateTime, Stream)

Exports Dep 131 to outputstream where bookdate is in from/tilldate range

#### Declaration

```
void ExportDep131(FiscalClient fiscalClient, DateTime fromDate, DateTime tillDate, Stream outputStream)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	fiscalClient	The configuration of the fiscal client.
<a href="#">DateTime</a>	fromDate	The starting date (including) of the document bookdate.
<a href="#">DateTime</a>	tillDate	The end date (including) of the document bookdate
<a href="#">Stream</a>	outputStream	Stream within the exportdata

#### FetchStoredDocuments(DateTime, DateTime)

Returns all stored documents including their [FiscalResponse](#) in the given date range.

#### Declaration

```
IEnumerable<StoredDocument> FetchStoredDocuments(DateTime fromDate, DateTime tillDate)
```

#### Parameters

Type	Name	Description
<a href="#">DateTime</a>	fromDate	The starting date (including) where the documents should be returned. Only the date part is used to filter.
<a href="#">DateTime</a>	tillDate	The end date (including the day) where the documents should be returned. Only the date part is used to filter.

#### Returns

Type	Description
<a href="#">IEnumerable&lt;StoredDocument&gt;</a>	A enumerable list of <a href="#">StoredDocument</a> objects representing all stored documents including their <a href="#">FiscalResponse</a> in the given date range.

#### Remarks

The given date range reflects the datetime of the closing not of the stored document itself. The actual open closing is not included.

#### GetActualDocuments()

Returns a list of documents within all documents since the last closing

#### Declaration

```
List<Document> GetActualDocuments()
```

#### Returns

Type	Description
<a href="#">List&lt;Document&gt;</a>	A List of documents <a href="#">Document</a>

#### GetDocument(Guid, int)

Returns the requested document if stored in the internal storage.

#### Declaration

```
Document GetDocument(Guid documentGuid, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">Document</a>	The requested document if stored in the internal storage.

#### Remarks

Returns null if the requested document or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .

#### GetDocument(int, int)

Returns the requested document if stored in the internal storage.

#### Declaration

Document GetDocument(int fiscalDocumentNr, int daysBack = -1)

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNr	The fiscal document number of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">Document</a>	The requested document if stored in the internal storage. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### GetDocument(string, int)

Returns the requested document if stored in the internal storage.

#### Declaration

Document GetDocument(string documentId, int daysBack = -1)

#### Parameters

Type	Name	Description
<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">Document</a>	The requested document if stored in the internal storage.

#### Remarks

Returns null if the requested document or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentId</code> is set to null or empty string.

#### GetDocumentResponse(Guid, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

FiscalResponse GetDocumentResponse(Guid documentGuid, int daysBack = -1)

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .

#### GetDocumentResponse(int, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

FiscalResponse GetDocumentResponse(int fiscalDocumentNr, int daysBack = -1)

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNr	The fiscal document number of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the response will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all responses will be check that are an any closing of the current day.

#### GetDocumentResponse(string, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

```
FiscalResponse GetDocumentResponse(string documentId, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentId</code> is set to null or empty string.

#### GetEndOfDayDocument(FiscalClient, bool, User)

Returns the end of day document for the actual day.

#### Declaration

```
Document GetEndOfDayDocument(FiscalClient client, bool closeMonth = false, User user = null)
```

#### Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	client	The configuration of the fiscal client.
<a href="#">bool</a>	closeMonth	True if the parameter CLOSING_CLOSEMONTH should be set. Otherwise false.
<a href="#">User</a>	user	A possible user for the end of day document. In certain countries it is necessary to have an user, therefore you should add the user.

#### Returns

Type	Description
<a href="#">Document</a>	The end of day document for the actual day.

#### Remarks

You have to call this function before sending the end of day document!

#### GetLastClosingDateTime()

Returns the date of the last closing

#### Declaration

```
DateTimeOffset? GetLastClosingDateTime()
```

#### Returns

Type	Description
------	-------------

**Type**                      **Description**

[DateTimeOffset](#)? The date of the last closing, null if no closing is available

#### GetLastDocument(bool)

Returns the last stored document from document store.

##### Declaration

```
Document GetLastDocument(bool onlyActual = true)
```

##### Parameters

**Type**   **Name**                                      **Description**

[bool](#)   onlyActual True if only the actual day is searched and nothing is returned if no document was stored; Otherwise false (to search also the last closing).

##### Returns

**Type**                                      **Description**

[Document](#) The requested document. Null if no last document was stored (depending on [onlyActual](#)).

#### GetLastDocumentResponse(bool)

Returns the last stored fiscal Response for the last document.

##### Declaration

```
FiscalResponse GetLastDocumentResponse(bool onlyActual = true)
```

##### Parameters

**Type**   **Name**                                      **Description**

[bool](#)   onlyActual True if only the actual day is searched and nothing is returned if no document was stored; Otherwise false (to search also the last closing).

##### Returns

**Type**                                      **Description**

[FiscalResponse](#) The last stored fiscal Response for the last document. Null if no last document was stored (depending on [onlyActual](#)).

#### GetNextEndOfDayNumber()

Returns the unique key for the next end of day

##### Declaration

```
string GetNextEndOfDayNumber()
```

##### Returns

**Type**                      **Description**

[string](#) Returns a string with the next end of day number

#### StoreDocument(DocumentStore, IFiscalModuleImplementation, FiscalClient, Document, FiscalResponse, string, string)

Stores a document to DocumentStore

##### Declaration

```
void StoreDocument(DocumentStore documentStore, IFiscalModuleImplementation fiscalModule, FiscalClient client, Document document, FiscalResponse response, string cloudApiKey, string cloudApiSecret)
```

##### Parameters

**Type**                      **Name**                                      **Description**

[IFiscalModuleImplementation](#)   fiscalModule   The fiscal Module implementation [IFiscalModuleImplementation](#) for communication with the cloud

[FiscalClient](#)                      client                      The Fiscalclient [FiscalClient](#) within informations about the client

[Document](#)                      document                      The document [Document](#) to store.

[FiscalResponse](#)                      response                      The fiscalResponse [FiscalResponse](#) of the document

[string](#)                      cloudApiKey                      A String with the cloud api key for communication with the cloud, only required for a local implementation.

[string](#)                      cloudApiSecret                      A string with the cloud api secret for the communication with the cloud, only required for a local implementation.

#### StoreDocumentErrorInformation(DocumentErrorInformation)

Stores the document and its error information to disk. This will only be done if parameter [StoreErrorDocumentsToDisk](#) is set to true.

##### Declaration

```
void StoreDocumentErrorInformation(DocumentErrorInformation errorInformation)
```

##### Parameters

Type	Name	Description
<a href="#">DocumentErrorInformation</a>	errorInformation	The error information containing the <a href="#">Document</a> and a list of errors to store.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>errorInformation</code> is set to null and <a href="#">StoreErrorDocumentsToDisk</a> is set to true.
<a href="#">NotImplementedException</a>	If this feature is enabled at cloud environment this functions throws an exception.

# Class LocalDocumentStorageProvider

## Inheritance

[object](#)  
[LoggingBase](#)  
[DocumentStorageProviderBase](#)  
LocalDocumentStorageProvider

## Implements

[IDocumentStorageProvider](#)

## Inherited Members

[DocumentStorageProviderBase.ClientId](#)  
[DocumentStorageProviderBase.GetEndOfDayDocument\(FiscalClient, bool, User\)](#)  
[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage.DocumentStorage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LocalDocumentStorageProvider : DocumentStorageProviderBase, IDocumentStorageProvider
```

## Constructors

### LocalDocumentStorageProvider(ILogger, Guid, string)

#### Declaration

```
public LocalDocumentStorageProvider(ILogger logger, Guid clientId, string storageBasePath)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">Guid</a>	clientId	
<a href="#">string</a>	storageBasePath	

## Properties

### StoreErrorDocumentsToDisk

If set to true any error document will be stored.

#### Declaration

```
public override bool StoreErrorDocumentsToDisk { get; set; }
```

#### Property Value

#### Type Description

[bool](#)

#### Overrides

[DocumentStorageProviderBase.StoreErrorDocumentsToDisk](#)

#### Remarks

If fiscal client is used in cloud environment feature is disabled

## Methods

### DocumentExists(Guid, int)

Returns whether the requested document exists in the internal document store.

#### Declaration

```
public override bool DocumentExists(Guid documentGuid, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid of the requested document.

[int](#) daysBack Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
------	-------------



Type	Description
<a href="#">bool</a>	True if the requested document exists; otherwise false. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

Overrides

[DocumentStorageProviderBase.DocumentExists\(Guid, int\)](#)

Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `documentGuid` is set to [Empty](#).

**DocumentExists(string, int)**

Returns whether the requested document exists in the internal document store.

Declaration

```
public override bool DocumentExists(string documentId, int daysBack = -1)
```

Parameters

Type	Name	Description
<a href="#">string</a>	<code>documentId</code>	The id of the document <a href="#">DocumentId</a>
<a href="#">int</a>	<code>daysBack</code>	Optional. Number of days to search back. Default: only current closing.

Returns

Type	Description
<a href="#">bool</a>	True if the requested document exists; otherwise false.

Overrides

[DocumentStorageProviderBase.DocumentExists\(string, int\)](#)

Remarks

If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

Exceptions

Type	Condition
------	-----------

[ArgumentNullException](#) Thrown if parameter `documentId` is set to null or empty string.

**ExportDep131(FiscalClient, DateTime, DateTime, Stream)**

Exports Dep 131 to outputstream where bookdate is in from/tilldate range

Declaration

```
public override void ExportDep131(FiscalClient fiscalClient, DateTime fromDate, DateTime tillDate, Stream outputStream)
```

Parameters

Type	Name	Description
<a href="#">FiscalClient</a>	<code>fiscalClient</code>	The configuration of the fiscal client.
<a href="#">DateTime</a>	<code>fromDate</code>	The starting date (including) of the document bookdate.
<a href="#">DateTime</a>	<code>tillDate</code>	The end date (including) of the document bookdate
<a href="#">Stream</a>	<code>outputStream</code>	Stream within the exportdata

Overrides

[DocumentStorageProviderBase.ExportDep131\(FiscalClient, DateTime, DateTime, Stream\)](#)

**FetchStoredDocuments(DateTime, DateTime)**

Returns all stored documents including their [FiscalResponse](#) in the given date range.

Declaration

```
public override IEnumerable<StoredDocument> FetchStoredDocuments(DateTime fromDate, DateTime tillDate)
```

Parameters

Type	Name	Description
<a href="#">DateTime</a>	<code>fromDate</code>	The starting date (including) where the documents should be returned. Only the date part is used to filter.
<a href="#">DateTime</a>	<code>tillDate</code>	The end date (including the day) where the documents should be returned. Only the date part is used to filter.

Returns

**Type** **Description**

[IEnumerable<StoredDocument>](#) A enumerable list of [StoredDocument](#) objects representing all stored documents including their [FiscalResponse](#) in the given date range.

**Overrides**

[DocumentStorageProviderBase.FetchStoredDocuments\(DateTime, DateTime\)](#)

**Remarks**

The given date range reflects the datetime of the closing not of the stored document itself. The actual open closing is not included.

**GetActualDocuments()**

Returns a list of documents within all documents since the last closing

**Declaration**

```
public override List<Document> GetActualDocuments()
```

**Returns**

**Type** **Description**

[List<Document>](#) A List of documents [Document](#)

**Overrides**

[DocumentStorageProviderBase.GetActualDocuments\(\)](#)

**GetDocument(Guid, int)**

Returns the requested document if stored in the internal storage.

**Declaration**

```
public override Document GetDocument(Guid documentGuid, int daysBack = -1)
```

**Parameters**

**Type** **Name** **Description**

[Guid](#) documentGuid The document guid of the requested document.

[int](#) daysBack Optional. Number of days to search back. Default: only current closing.

**Returns**

**Type** **Description**

[Document](#) The requested document if stored in the internal storage.

**Overrides**

[DocumentStorageProviderBase.GetDocument\(Guid, int\)](#)

**Remarks**

Returns null if the requested document or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

**Exceptions**

**Type** **Condition**

[ArgumentNullException](#) Thrown if parameter documentGuid is set to [Empty](#).

**GetDocument(int, int)**

Returns the requested document if stored in the internal storage.

**Declaration**

```
public override Document GetDocument(int fiscalDocumentNr, int daysBack = -1)
```

**Parameters**

**Type** **Name** **Description**

[int](#) fiscalDocumentNr The fiscal document number of the requested document.

[int](#) daysBack Optional. Number of days to search back. Default: only current closing.

**Returns**

**Type** **Description**

[Document](#) The requested document if stored in the internal storage. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

**Overrides**

[DocumentStorageProviderBase.GetDocument\(int, int\)](#)

### GetDocument(string, int)

Returns the requested document if stored in the internal storage.

#### Declaration

```
public override Document GetDocument(string documentId, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">Document</a>	The requested document if stored in the internal storage.

#### Overrides

[DocumentStorageProviderBase.GetDocument\(string, int\)](#)

#### Remarks

Returns null if the requested document or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentId</code> is set to null or empty string.

### GetDocumentResponse(Guid, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

```
public override FiscalResponse GetDocumentResponse(Guid documentGuid, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">Guid</a>	documentGuid	The document guid of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.

#### Overrides

[DocumentStorageProviderBase.GetDocumentResponse\(Guid, int\)](#)

#### Remarks

Returns null if the requested document response or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentGuid</code> is set to <a href="#">Empty</a> .

### GetDocumentResponse(int, int)

Returns the requested document response if stored in the internal storage.

#### Declaration

```
public override FiscalResponse GetDocumentResponse(int fiscalDocumentNr, int daysBack = -1)
```

#### Parameters

Type	Name	Description
<a href="#">int</a>	fiscalDocumentNr	The fiscal document number of the requested document.
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

#### Returns

Type	Description
------	-------------

Type	Description
<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.

**Overrides**

[DocumentStorageProviderBase.GetDocumentResponse\(int, int\)](#)

**Remarks**

Returns null if the requested document response or client was not found. If days back is set, the response will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all responses will be check that are an any closing of the current day.

**GetDocumentResponse(string, int)**

Returns the requested document response if stored in the internal storage.

**Declaration**

```
public override FiscalResponse GetDocumentResponse(string documentId, int daysBack = -1)
```

**Parameters**

Type	Name	Description
<a href="#">string</a>	documentId	The id of the document <a href="#">DocumentId</a>
<a href="#">int</a>	daysBack	Optional. Number of days to search back. Default: only current closing.

**Returns**

Type	Description
<a href="#">FiscalResponse</a>	The requested document if stored in the internal storage.

**Overrides**

[DocumentStorageProviderBase.GetDocumentResponse\(string, int\)](#)

**Remarks**

Returns null if the requested document response or client was not found. If days back is set, the document will be found if it is in a closing where the closing date is between days back the current day. Example: If days back is set to 0 all documents will be check that are an any closing of the current day.

**Exceptions**

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <code>documentId</code> is set to null or empty string.

**GetLastClosingDateTime()**

Returns the date of the last closing

**Declaration**

```
public override DateTimeOffset? GetLastClosingDateTime()
```

**Returns**

Type	Description
<a href="#">DateTimeOffset?</a>	The date of the last closing, null if no closing is available

**Overrides**

[DocumentStorageProviderBase.GetLastClosingDateTime\(\)](#)

**GetLastDocument(bool)**

Returns the last stored document from document store.

**Declaration**

```
public override Document GetLastDocument(bool onlyActual = true)
```

**Parameters**

Type	Name	Description
<a href="#">bool</a>	onlyActual	True if only the actual day is searched and nothing is returned if no document was stored; Otherwise false (to search also the last closing).

**Returns**

Type	Description
<a href="#">Document</a>	The requested document. Null if no last document was stored (depending on <code>onlyActual</code> ).

**Overrides**

[DocumentStorageProviderBase.GetLastDocument\(bool\)](#)

**GetLastDocumentResponse(bool)**

Returns the last stored fiscal Response for the last document.

#### Declaration

```
public override FiscalResponse GetLastDocumentResponse(bool onlyActual = true)
```

#### Parameters

Type	Name	Description
<a href="#">bool</a>	onlyActual	True if only the actual day is searched and nothing is returned if no document was stored; Otherwise false (to search also the last closing).

#### Returns

Type	Description
<a href="#">FiscalResponse</a>	The last stored fiscal Response for the last document. Null if no last document was stored (depending on <a href="#">onlyActual</a> ).

#### Overrides

[DocumentStorageProviderBase.GetLastDocumentResponse\(bool\)](#)

#### GetNextEndOfDayNumber()

Returns the unique key for the next end of day

#### Declaration

```
public override string GetNextEndOfDayNumber()
```

#### Returns

Type	Description
<a href="#">string</a>	Returns a string with the next end of day number

#### Overrides

[DocumentStorageProviderBase.GetNextEndOfDayNumber\(\)](#)

#### StoreDocument(DocumentStore, IFiscalModuleImplementation, FiscalClient, Document, FiscalResponse, string, string)

Stores a document to DocumentStore

#### Declaration

```
public override void StoreDocument(DocumentStore documentStore, IFiscalModuleImplementation fiscalModule, FiscalClient client, Document document, FiscalResponse response, string cloudApiKey, string cloudApiSecret)
```

#### Parameters

Type	Name	Description
<a href="#">IFiscalModuleImplementation</a>	fiscalModule	The fiscal Module implementation <a href="#">IFiscalModuleImplementation</a> for communication with the cloud
<a href="#">FiscalClient</a>	client	The Fiscalclient <a href="#">FiscalClient</a> within informations about the client
<a href="#">Document</a>	document	The document <a href="#">Document</a> to store.
<a href="#">FiscalResponse</a>	response	The fiscalResponse <a href="#">FiscalResponse</a> of the document
<a href="#">string</a>	cloudApiKey	A String with the cloud api key for communication with the cloud, only required for a local implementation.
<a href="#">string</a>	cloudApiSecret	A string with the cloud api secret for the communication with the cloud, only required for a local implementation.

#### Overrides

[DocumentStorageProviderBase.StoreDocument\(DocumentStore, IFiscalModuleImplementation, FiscalClient, Document, FiscalResponse, string, string\)](#)

#### StoreDocumentErrorInformation(DocumentErrorInformation)

Stores the document and its error information to disk. This will only be done if parameter [StoreErrorDocumentsToDisk](#) is set to true.

#### Declaration

```
public override void StoreDocumentErrorInformation(DocumentErrorInformation errorInformation)
```

#### Parameters

Type	Name	Description
<a href="#">DocumentErrorInformation</a>	errorInformation	The error information containing the <a href="#">Document</a> and a list of errors to store.

#### Overrides

[DocumentStorageProviderBase.StoreDocumentErrorInformation\(DocumentErrorInformation\)](#)

#### Exceptions

Type	Condition
<a href="#">ArgumentNullException</a>	Thrown if parameter <a href="#">errorInformation</a> is set to null and <a href="#">StoreErrorDocumentsToDisk</a> is set to true.
<a href="#">NotImplementedException</a>	If this feature is enabled at cloud environment this functions throws an exception.

#### Implements



# Namespace RetailForce.Fiscalisation.Storage.UniqueReceiptIdStorage

## Classes

[LocalUniqueReceiptIdProvider](#)

[UniqueReceiptIdProviderBase](#)

## Interfaces

[IUniqueReceiptIdProvider](#)

# Interface IUniqueReceiptIdProvider

Namespace: [RetailForce.Fiscalisation.Storage.UniqueReceiptIdStorage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public interface IUniqueReceiptIdProvider
```

## Methods

### GetNextUniqueReceiptId(string, out string)

returns the next unique receipt id for the client

#### Declaration

```
string GetNextUniqueReceiptId(string globalClientShortId, out string receiptIdBase62)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	globalClientShortId	A string representing the global unique client short id.
<a href="#">string</a>	receiptIdBase62	The receipt id for this client Base62 encoded

#### Returns

Type	Description
<a href="#">string</a>	A string that represents the global unique receipt id

### InitializeReceiptId(out string)

Generates a new unique receipt id file if not exists

#### Declaration

```
void InitializeReceiptId(out string receiptIdBase62)
```

#### Parameters

Type	Name	Description
<a href="#">string</a>	receiptIdBase62	The receipt id for this client Base62 encoded

#### Remarks

initializes the unique receipt id with 0 if not already available



# Class LocalUniqueReceiptIdProvider

## Inheritance

[object](#)  
[LoggingBase](#)  
[UniqueReceiptIdProviderBase](#)  
[LocalUniqueReceiptIdProvider](#)

## Implements

[IUniqueReceiptIdProvider](#)

## Inherited Members

[UniqueReceiptIdProviderBase.ClientId](#)  
[UniqueReceiptIdProviderBase.GetNextUniqueReceiptId\(string, out string\)](#)  
[UniqueReceiptIdProviderBase.InitializeReceiptId\(out string\)](#)  
[LoggingBase.\\_logger](#)  
[LoggingBase.\\_logSource](#)  
[LoggingBase.LogCritical\(string, params object\[\]\)](#)  
[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogError\(string, params object\[\]\)](#)  
[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)  
[LoggingBase.LogWarning\(string, params object\[\]\)](#)  
[object.Equals\(object\)](#)  
[object.Equals\(object, object\)](#)  
[object.GetHashCode\(\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage.UniqueReceiptIdStorage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public class LocalUniqueReceiptIdProvider : UniqueReceiptIdProviderBase, IUniqueReceiptIdProvider
```

## Constructors

### LocalUniqueReceiptIdProvider(ILogger, Guid, string)

#### Declaration

```
public LocalUniqueReceiptIdProvider(ILogger logger, Guid clientId, string storageBasePath)
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">Guid</a>	clientId	
<a href="#">string</a>	storageBasePath	

## Methods

### GetContent()

returns the current stored number

#### Declaration

protected override string? GetContent()

#### Returns

#### Type

#### Description

[string](#) the current stored number of the receipt base62 encoded, or null if nothing was stored

#### Overrides

[UniqueReceiptIdProviderBase.GetContent\(\)](#)

#### SetContent(string, bool)

stores the current receipt number

#### Declaration

protected override void SetContent(string content, bool overwrite = true)

#### Parameters

#### Type Name

#### Description

[string](#) content Base62 encoded number

[bool](#) overwrite If true, existing receipt number will be replace, if false and a stored number already exists nothing will be done

#### Overrides

[UniqueReceiptIdProviderBase.SetContent\(string, bool\)](#)

#### Implements

[IUniqueReceiptIdProvider](#)

# Class UniqueReceiptIdProviderBase

## Inheritance

[object](#)

[LoggingBase](#)

[UniqueReceiptIdProviderBase](#)

[LocalUniqueReceiptIdProvider](#)

## Implements

[IUniqueReceiptIdProvider](#)

## Inherited Members

[LoggingBase.\\_logger](#)

[LoggingBase.\\_logSource](#)

[LoggingBase.LogCritical\(string, params object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogError\(string, params object\[\]\)](#)

[LoggingBase.LogError\(Exception, string, params object\[\]\)](#)

[LoggingBase.LogWarning\(string, params object\[\]\)](#)

[object.Equals\(object\)](#)

[object.Equals\(object, object\)](#)

[object.GetHashCode\(\)](#)

[object.GetType\(\)](#)

[object.MemberwiseClone\(\)](#)

[object.ReferenceEquals\(object, object\)](#)

[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Storage.UniqueReceiptIdStorage](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
public abstract class UniqueReceiptIdProviderBase : LoggingBase, IUniqueReceiptIdProvider
```

## Constructors

### UniqueReceiptIdProviderBase(ILogger, Guid, string)

#### Declaration

```
public UniqueReceiptIdProviderBase(ILogger logger, Guid clientId, string logSource = "")
```

#### Parameters

Type	Name	Description
<a href="#">ILogger</a>	logger	
<a href="#">Guid</a>	clientId	
<a href="#">string</a>	logSource	

## Properties

### ClientId

#### Declaration

```
protected Guid ClientId { get; }
```

#### Property Value

#### Type Description

## Type Description

[Guid](#)

## Methods

### GetContent()

returns the current stored number

#### Declaration

```
protected abstract string? GetContent()
```

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	the current stored number of the receipt base62 encoded, or null if nothing was stored
------------------------	--

### GetNextUniqueReceiptId(string, out string)

returns the next unique receipt id for the client

#### Declaration

```
public string GetNextUniqueReceiptId(string globalClientShortId, out string receiptIdBase62)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	globalClientShortId	A string representing the global unique client short id.
------------------------	---------------------	--

<a href="#">string</a>	receiptIdBase62	The receipt id for this client Base62 encoded
------------------------	-----------------	---

#### Returns

Type	Description
------	-------------

<a href="#">string</a>	A string that represents the global unique receipt id
------------------------	---

### InitializeReceiptId(out string)

Generates a new unique receipt id file if not exists

#### Declaration

```
public void InitializeReceiptId(out string receiptIdBase62)
```

#### Parameters

Type	Name	Description
------	------	-------------

<a href="#">string</a>	receiptIdBase62	The receipt id for this client Base62 encoded
------------------------	-----------------	---

#### Remarks

initializes the unique receipt id with 0 if not already available

## SetContent(string, bool)

stores the current receipt number

### Declaration

```
protected abstract void SetContent(string content, bool overwrite = true)
```

### Parameters

Type	Name	Description
<a href="#">string</a>	content	Base62 encoded number
<a href="#">bool</a>	overwrite	If true, existing receipt number will be replace, if false and a stored number already exists nothing will be done

### Implements

[IUniqueReceiptIdProvider](#)

# Namespace RetailForce.Fiscalisation.Swagger

## Classes

[SwaggerExcludeAttribute](#)

# Class SwaggerExcludeAttribute

## Inheritance

[object](#)  
[Attribute](#)  
SwaggerExcludeAttribute

## Inherited Members

[Attribute.Equals\(object\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type\)](#)  
[Attribute.GetCustomAttribute\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(Module, Type\)](#)  
[Attribute.GetCustomAttribute\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttribute\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly\)](#)  
[Attribute.GetCustomAttributes\(Assembly, bool\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type\)](#)  
[Attribute.GetCustomAttributes\(Assembly, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(MemberInfo, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(Module\)](#)  
[Attribute.GetCustomAttributes\(Module, bool\)](#)  
[Attribute.GetCustomAttributes\(Module, Type\)](#)  
[Attribute.GetCustomAttributes\(Module, Type, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, bool\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type\)](#)  
[Attribute.GetCustomAttributes\(ParameterInfo, Type, bool\)](#)  
[Attribute.GetHashCode\(\)](#)  
[Attribute.IsDefaultAttribute\(\)](#)  
[Attribute.IsDefined\(Assembly, Type\)](#)  
[Attribute.IsDefined\(Assembly, Type, bool\)](#)  
[Attribute.IsDefined\(MemberInfo, Type\)](#)  
[Attribute.IsDefined\(MemberInfo, Type, bool\)](#)  
[Attribute.IsDefined\(Module, Type\)](#)  
[Attribute.IsDefined\(Module, Type, bool\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type\)](#)  
[Attribute.IsDefined\(ParameterInfo, Type, bool\)](#)  
[Attribute.Match\(object\)](#)  
[Attribute.TypeId](#)  
[object.Equals\(object, object\)](#)  
[object.GetType\(\)](#)  
[object.MemberwiseClone\(\)](#)  
[object.ReferenceEquals\(object, object\)](#)  
[object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Swagger](#)

Assembly: RetailForce.Fiscalisation.dll

## Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class SwaggerExcludeAttribute : Attribute
```