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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

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

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

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

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

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

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

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

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

RestServiceBasicClient<ApiErrorMode>.CreateClient()

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[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
ILogger	logger	A logger for logging purposes.
string	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
ArgumentNullException	Thrown if parameter <code>refreshToken</code> is set to null or empty string.
HttpRequestException	Thrown if http request was not successful.
SecurityException	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
string	cloudApiKey	
string	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
ArgumentNullException	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
string	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
ConfigurationProviderBase	configProvider	The provider to load the necessary configuration.
ILogger	logger	The logger for this class.
CloudService	cloudService	The cloud service to transfer data to the cloud. Optional if no cloud transfer is configured.

Exceptions

Type	Condition
ArgumentNullException	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
Dictionary<string, object>	

Methods

CreateFiscalModuleForClient(Guid, string, string, string)

Creates a fiscal module for a specific client.

Declaration

```
public TrustedFiscalModule CreateFiscalModuleForClient(Guid clientId, string storageBasePath = null, string cloudApiKey = "", string cloudApiSecret = "")
```

Parameters

Type	Name	Description
Guid	clientId	A guid representing the unique clientid for this operation.
string	storageBasePath	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!

Type	Name	Description
string	cloudApiKey	The api key for cloud authentication to the retailforce cloud.

string	cloudApiSecret	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
ILogger	logger	The logger for this class.
ConfigurationProviderBase	configProvider	The configuration provider for this fiscal module.
string	storageBasePath	The storage base path for the fiscal modules to store the data (same as at CreateFiscalModuleForClient(Guid, string, string, string)).
ProxyConfiguration	proxyConfiguration	Optional. Can be used to use proxy for communication with the rest service.

Exceptions

Type	Condition
ArgumentNullException	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
Guid	clientId	The client where the backup should be done.
string	filename	The filename where the zip backup should be done.
CloudService	cloudService	The cloud service which processes cloud upload. Must be supplied if cloud service is in use.
bool	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
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>filename</code> is set to null or empty string.
DirectoryNotFoundException	Thrown if the directory where the backup should be stored is not found.
FileAlreadyExistsException	Thrown if the given filename for the backup already exists.
KeyNotFoundException	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
Guid	<code>clientId</code>	The id of the requested client.

Returns

Type	Description
bool	True if the client exists; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

CreateClient(FiscalClient)

Creates a client at the fiscal module management.

Declaration

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

Parameters

Type	Name	Description
FiscalClient	<code>client</code>	The client to create.

Remarks

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

Exceptions

Type	Condition
ValidationException	Thrown if one or more <code>RetailForce.Common.Validation.ValidationError</code> occurred when validating the client object.
ArgumentNullException	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
CompanyIdentification	<code>companyIdentification</code>	The identification of the company where the client belongs.
string	<code>storeNumber</code>	The store number of the client.
string	<code>terminalNumber</code>	The terminal number of the client.
string	<code>cloudApiKey</code>	The api key to access the retailforce cloud.

Type	Name	Description
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.

Exceptions

Type	Condition
ArgumentNullException	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.
KeyNotFoundException	Thrown if the given entity is not found in the cloud or you are not authorized for access.
ValidationException	Thrown if the fiscal client configuration in the cloud does not match client validation.
HttpRequestException	Thrown if http request was not successful.
SecurityException	Thrown if cookie for response token was not created or authentication was not successful.
InvalidDataException	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
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.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>licenseConsumerId</code> is set to Empty 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.
KeyNotFoundException	Thrown if the given entity is not found in the cloud or you are not authorized for access.
ValidationException	Thrown if the fiscal client configuration in the cloud does not match client validation.
HttpRequestException	Thrown if http request was not successful.
SecurityException	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
FiscalClient	client	The client to create. Must not be null.
List<string>	licenses	A list of licenselId's to create with the client.

Type	Name	Description
string	apiKey	An apiKey for authentication as the distributor to the cloud service.
string	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
ArgumentNullException	Thrown if
ValidationException	

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
Guid	clientId	The id of the client to delete.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

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

Downloads fiscal client data from the cloud.

Declaration

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

Parameters

Type	Name	Description
CloudConnector	cloudConnector	The cloud connector to download. Important: Must be already authenticated!
Guid	organisationId	The organizationId (licenseConsumerId) of the client to download.
string	storeNumber	The store number of the client to download.
string	terminalNumber	The terminal number of the client to download.
bool	restore	True if the client should be downloaded with restore flag; otherwise false.
ILogger	logger	The logger for logging purposes.

Returns

Type	Description
FiscalClient	The requested fiscal client.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>cloudConnector</code> is set to null.
ArgumentNullException	Thrown if parameter <code>storeNumber</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>terminalNumber</code> is set to null or Empty .
InvalidOperationException	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
------	------	-------------

Guid	<code>clientId</code>	The id of the fiscal client.
----------------------	-----------------------	------------------------------

Returns

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

FiscalClient	Requested fiscal client.
------------------------------	--------------------------

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>clientId</code> is set to null.
ArgumentOutOfRangeException	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
CompanyIdentification	<code>companyIdentification</code>	An object representing the identification for the company.
string	<code>storeNumber</code>	The store number of the requested client.
string	<code>terminalNumber</code>	The terminal number of the requested client.

Returns

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

Guid?	The <code>clientId</code> of the requested client or null if not found.
-----------------------	---

Exceptions

Type	Condition
ArgumentNullException	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
------	-------------

List<FiscalClient>	
--	--

GetFiscalClientJsonSerializerSettings()

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

Declaration

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

Returns

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

JsonSerializerSettings	The json serializer settings to serialize / deserialize FiscalClient .
--	--

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
string	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
ArgumentNullException	Thrown if parameter <code>filename</code> is set to null or Empty .
FileNotFoundException	Thrown if the given backup zip file <code>filename</code> is not found.
InvalidOperationException	Thrown if <code>fiscalClient.config</code> is missing in zip file.
InvalidOperationException	Thrown if <code>fiscalClient.config</code> cannot be deserialized to FiscalClient .
DataException	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
CompanyIdentification	companyIdentification	The identification of the company where the client belongs.
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 the parameter <code>companyIdentification</code> is set to null.
ArgumentNullException	Thrown if the parameter <code>storeNumber</code> is set to null or <code>string.Empty</code> .
ArgumentNullException	Thrown if the parameter <code>terminalNumber</code> is set to null or <code>string.Empty</code> .
ArgumentNullException	Thrown if the parameter <code>cloudApiKey</code> is set to null or <code>string.Empty</code> .
ArgumentNullException	Thrown if the parameter <code>cloudApiSecret</code> is set to null or <code>string.Empty</code> .
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.

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	<code>licenseConsumerId</code>	The organization id where the client belongs (LicenseConsumerId).
string	<code>storeNumber</code>	The store number of the client.
string	<code>terminalNumber</code>	The terminal number of the client.
string	<code>cloudApiKey</code>	The api key to access the retailforce cloud.
string	<code>cloudApiSecret</code>	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	<code>client</code>	The client to update.

Remarks

Please consider to use this method with care! Setting configuration values can result in malfunction 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.

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

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
Guid	clientId	The client for which the configuration update should be applied.
string	cloudApiKey	The api key to access the retailforce cloud.
string	cloudApiSecret	The api secret to access the retailforce cloud.

Returns

Type	Description
FiscalClient	The new fiscal client configuration FiscalClient .

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
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>cloudApiKey</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>cloudApiSecret</code> is set to null or Empty .
KeyNotFoundException	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
ReadOnlyDictionary<string, object>	

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
------	-------------

[FiscalCountry](#)

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
Document	document	The document to validate.
bool	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

Returns

Type	Description
List<DocumentValidationError>	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
Func<FiscalResponse>	

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
TrustedFiscalModule	

Methods

AddAuditLog(AuditLogEntry)

Method to add audit log to the country specific system.

Declaration

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

Parameters

Type	Name	Description
AuditLogEntry	auditLogEntry	The audit log entry to store.

Returns

Type	Description
FiscalResponse	FiscalResponse of the respective country or null if not necessary (depends on the country implementation).

Exceptions

Type	Condition
ArgumentNullException	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
CloudFunctionCall	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
------	------	-------------

Document	document	The document to cancel.
--------------------------	----------	-------------------------

Returns

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

FiscalResponse	A FiscalResponse object representing the appropriate fiscal response data.
--------------------------------	--

CancelErrorDocument(Guid)

Method to cancel one error document.

Declaration

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

Parameters

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

Guid	documentGuid	The guid of the document to cancel.
----------------------	--------------	-------------------------------------

Exceptions

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

NotImplementedException	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
------	------	-------------

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.
--------------------------------	--

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
------	------	-------------

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.
--------------------------------	--

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
------	------	-------------

string	line1	The first line to display.
------------------------	-------	----------------------------

string	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
------	------	-------------

string	certificateName	The id of the certificate to download; if null the default certificate is downloaded.
------------------------	-----------------	---

bool	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.
----------------------	-----------	---

string	certificateUrl	The url of the certificate download endpoint. Default:
------------------------	----------------	--

Exceptions

Type	Condition
FileAlreadyExistsException	Thrown if the certificate already exists and <code>overWrite</code> is set to false.
CertificateException	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
------	------	-------------

bool	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.
----------------------	-----------	---

Exceptions

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

DateTimeOffset?	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.
---------------------------------	-------------------------	---

Type	Name	Description
DateTimeOffset?	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.

GetDocumentMandatoryFields(Type)

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

Declaration

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

Parameters

Type	Name	Description
Type	t	The type to get the mandatory fields.

Returns

Type	Description
ReadOnlyList<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

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

Parameters

Type	Name	Description
bool	onlyAsync	True if only error documents should be returned which were generated in asynchronous operation.

Returns

Type	Description
List<Guid>	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
NotImplementedException	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
Vat	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
------	-------------

string	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
------	------	-------------

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

```
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.
--------------------------------	--

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
------	------	-------------

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.
------------------------	--------	---

Type	Name	Description
string	param5	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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

```
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.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

Declaration

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

Parameters

Type	Name	Description
User	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
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).

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
string	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
string	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

[byte\[\]](#) data The data to sign.

Returns

Type	Description
string	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
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
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 <code>pfxStream</code> is set to null.
ArgumentNullException	Thrown if parameter <code>pfxPassword</code> is set to null or Empty .
FileAlreadyExistsException	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.
Stream	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
Document	document	The document containing the fiscal client.

Returns

Type	Description
List<DocumentValidationError>	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
------	------	-------------

byte[]	data	The data which was signed before.
------------------------	------	-----------------------------------

string	signature	The base64-url-encoded signature to verify.
------------------------	-----------	---

Returns

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

bool	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
------	------	-------------

string	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
string	qrCode	The string to convert to a qr code bitmap.

int	size	The size of the qr code.
---------------------	------	--------------------------

Returns

Type	Description
Bitmap	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
string	qrCode	The string to convert to a qr code.

Type	Name	Description
int	size	The size of the qr code.
ImageFormat	imageFormat	The format of the image, default: png.

Returns

Type	Description
string	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
string	qrCode	The string to convert to a qr code image file.
string	filename	The filename of the destination file.
int	size	The size of the qr code.
ImageFormat	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.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 termina 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
FiscalClientStatus	

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
IFiscalModulImplementation	

StoreErrorDocumentsToDisk

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

Declaration

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

Property Value

Type Description

[bool](#)

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
string	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
InvalidOperationException	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
AuditLogEntry	auditLogEntry	The audit log entry to add.
bool	duplicate	Out parameter; True if the current audit log was sent before; otherwise false.

Returns

Type	Description
FiscalResponse	A possible FiscalResponse 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
ArgumentNullException	Thrown if parameter auditLogEntry is set to null.
ArgumentException	Thrown if audit log entry is sent with Signature property set.

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

Adds an audit log to the fiscal client.

Declaration

```
public FiscalResponse AddAuditLog(LogEntryType logEntryType, out bool duplicate, string message = "", Guid? documentGuid = null, User user = null, decimal? amount = null, string :
```

Parameters

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

Returns

Type	Description
FiscalResponse	A possible FiscalResponse if this audit log is signed in the country.

CancelDocument(Document)

Cancels the given document.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	The FiscalResponse object containing the fiscal response.

Exceptions

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
Guid	documentGuid	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
NotImplementedException	Thrown if the method is not implemented in the current country implementation.
ArgumentNullException	Thrown if parameter documentGuid is set to Empty .

CheckAndUploadOldDocumentFiles()

Declaration

```
public void CheckAndUploadOldDocumentFiles()
```

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
User	user	The user who's operating this function.
List<Payment>	paymentToBook	The difference for the different payment types.
string	reason	Optional. The reason for the cash difference (see documentation for countries where this field is mandatory).
string	documentNumber	A document number for adding to the generated document. Default is null.
Guid?	documentGuid	A document guid for adding to the generated document. Default is NewGuid() .
string	documentId	A document id for adding to the generated document. Default is string representation of NewGuid() .

Returns

Type	Description
FiscalResponse	The fiscal response for the signed document.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameters user or paymentToBook are set to null.
InvalidDataException	Thrown if UniqueReadablePaymentIdentifier 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
User	user	The user who's operating this function.
List<Payment>	payments	The payments according to parameter isStockAmount.
bool	isStockAmount	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.
string	documentNumber	A document number for adding to the generated document. Default is null.

Type	Name	Description
Guid?	documentGuid	A document guid for adding to the generated document. Default is NewGuid() .
string	documentId	A document id for adding to the generated document. Default is string representation of NewGuid() .

Returns

Type	Description
FiscalResponse	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
ArgumentNullException	Thrown if parameters <code>user</code> or <code>payments</code> are set to null.
InvalidDataException	Thrown if UniqueReadablePaymentIdentifier 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
User	user	The user who's operating this function.
List<Payment>	openingStockPayment	The opening stock for the individual payment types.
string	documentNumber	A document number for adding to the generated document. Default is null.
Guid?	documentGuid	A document guid for adding to the generated document. Default is NewGuid() .
string	documentId	A document id for adding to the generated document. Default is string representation of NewGuid() .

Returns

Type	Description
FiscalResponse	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
ArgumentNullException	Thrown if parameter <code>openingStockPayment</code> or parameter <code>user</code> is set to null.
InvalidDataException	Thrown if UniqueReadablePaymentIdentifier 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
List<Payment>	paymentsToCheck	A list of payments and their respective amounts to check. Attention:

Returns

Type	Description
List<Payment>	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.

Type **Condition**

[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
User	user	The user who's operating this function.
List<Payment>	paymentsToCheck	A list of payment values to check for cash difference if parameter <code>raiseCashDifferenceException</code> is set. Please refer to ClosingCashPointCheck(List<Payment>) for more information for this parameter.
bool	raiseCashDifferenceException	True if a cashpoint check has to be evaluated in front and an exception will be raised if there is a cash difference; otherwise false. Setting this parameter to true the parameter <code>paymentsToCheck</code> must not be null.
bool	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 <code>paymentsToCheck</code> is set to null and parameter <code>raiseCashDifferenceException</code> is set to true or if parameter <code>user</code> 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 <code>raiseCashDifferenceException</code> 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 method 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
string	backupFile	A list of folders to backup.

Exceptions

Type	Condition
CloudNotConnectedException	Thrown if cloud service is not available.
ArgumentNullException	Thrown if parameter <code>backupFile</code> is set to null or Empty .
FileNotFoundException	Thrown if file in parameter <code>backupFile</code> is not found.
LicenseException	Thrown if no license is found.
LicenseException	Thrown if no backup license is found.

Type	Condition
EntityTooLargeException	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
DateTime?	backupDate	The date of the backup to delete. If null today is used.

Exceptions

Type	Condition
CloudNotConnectedException	Thrown if the cloud service is not available in the fiscal module (call cloudConnect).
TimeoutException	Thrown if waiting to stop queue processing exceeds 2 min.
LicenseException	Thrown if no license is found.
LicenseException	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
string	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
string	cloudApiSecret	The api secret for cloud authentication to the retailforce cloud.
Action<CloudConnector>	callMethod	Method which can be called when authentication was successful.

Returns

Type Description

[bool](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>cloudApiKey</code> or parameter <code>cloudApiSecret</code> is set to null or empty string.
SecurityException	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
DateTime?	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
LicenseException	Thrown if no license is found.
LicenseException	Thrown if no backup license is found.

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

[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
string	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
------	-----------

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

[DirectoryNotFoundException](#) Thrown if parameter destinationPath path is not found.

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

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

[CloudNotConnectedException](#) 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
DocumentType	documentType	The type of the document for which the document should be created.

Returns

Type	Description
FiscalResponse	The FiscalResponse 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 your not creating the document at the beginning of the sales transaction.

Exceptions

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

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

Exceptions

Type**Condition**

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

[ArgumentOutOfRangeException](#) Thrown if `clientId` of document does not match `clientId` of fiscal module or if `documentType` is not set to [NullReceipt](#).

[ValidationException](#) Thrown if one or more document validation errors were raised. You can use [ValidateDocument\(Document, bool, bool\)](#) 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**

[string](#) `line1` The first line to display.

[string](#) `line2` The second line to display.

Dispose()

Provides a mechanism for releasing unmanaged resources.

Declaration

```
public void Dispose()
```

DocumentExists(Guid, int)

Returns whether the requested document exists in the internal document store.

Declaration

```
public 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.

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 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.

Exceptions**Type****Condition**

[ArgumentNullException](#) Thrown if parameter `documentId` is set to null or empty string.

FetchStoredDocuments(DateTime, DateTime)

Returns all stored documents including their [FiscalResponse](#) in the given date range.

Declaration

```
public IEnumerable<StoredDocument> FetchStoredDocuments(DateTime fromDate, DateTime tillDate)
```

Parameters

Type	Name	Description
DateTime	fromDate	The starting date (including) where the documents should be returned. Only the date part is used to filter.
DateTime	tillDate	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.

Remarks

The given date range reflects the datetime of the closing not of the stored document itself. The actual open closing is not included.

GetAuditLog(DateTime?, DateTime?)

Returns all audit records queried by fromDate/tillDate.

Declaration

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

Parameters

Type	Name	Description
DateTime?	fromDate	Optional. If not set 1st january of current year is used.
DateTime?	tillDate	Optional. If not set 31st december of current year is used.

Returns

Type	Description
List<AuditLogEntry>	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
Guid	uniqueClientId	

Returns

Type Description

[string](#)

GetClosingDate(string)

Declaration

```
public DateTime GetClosingDate(string documentZipFile)
```

Parameters

Type	Name	Description
string	documentZipFile	

Returns

Type Description

[DateTime](#)

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
DateTimeOffset?	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.

Type	Name	Description
DateTimeOffset?	checkTime	The time to check if closing is necessary. Default is Now .

Returns

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.

GetDocument(Guid, int)

Returns the requested document if stored in the internal storage.

Declaration

```
public 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.

Remarks

Returns null if the requested document or client was not found.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>documentGuid</code> is set to Empty .

GetDocument(int, int)

Returns the requested document if stored in the internal storage.

Declaration

```
public 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.

GetDocument(string, int)

Returns the requested document if stored in the internal storage.

Declaration

```
public Document GetDocument(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
Document	The requested document if stored in the internal storage.

Remarks

Returns null if the requested document or client was not found.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>documentId</code> is set to null or empty string.

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.

GetDocumentResponse(Guid, int)

Returns the requested document response if stored in the internal storage.

Declaration

```
public FiscalResponse GetDocumentResponse(Guid documentGuid, int daysBack = -1)
```

Parameters

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

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
FiscalResponse	The requested document if stored in the internal storage.

Remarks

Returns null if the requested document response or client was not found.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>documentGuid</code> is set to Empty .

GetDocumentResponse(int, int)

Returns the requested document response if stored in the internal storage.

Declaration

```
public FiscalResponse GetDocumentResponse(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
FiscalResponse	The requested document if stored in the internal storage.

Remarks

Returns null if the requested document response or client was not found.

GetDocumentResponse(string, int)

Returns the requested document response if stored in the internal storage.

Declaration

```
public FiscalResponse GetDocumentResponse(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
FiscalResponse	The requested document if stored in the internal storage.

Remarks

Returns null if the requested document response or client was not found.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>documentId</code> is set to null or empty string.

GetEndOfDayDocument(bool)

Returns the end of day document for the actual day.

Declaration

```
public Document GetEndOfDayDocument(bool closeMonth = false)
```

Parameters

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

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

[bool](#) closeMonth True if the parameter CLOSING_CLOSEMONTH should be set. Otherwise false.

Returns

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

[Document](#) The end of day document for the actual day.

Remarks

You have to call this function before sending the end of day document!

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
------	------	-------------

[bool](#) onlyAsync True if only error documents should be returned which were generated in asynchronous operation.

Returns

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

[List<Guid>](#) 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
------	-----------

[NotImplementedException](#) 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
------	------	-------------

[Guid](#) uniqueClientId

Returns

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

[string](#)

GetFiscalCountryProperties()

Returns the fiscal country properties for the fiscal modul implementation.

Declaration

```
public IFiscalCountryProperties GetFiscalCountryProperties()
```

Returns

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

[IFiscalCountryProperties](#) 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
------	------	-------------

[FiscalCountry](#) fiscalCountry The fiscal country where the

Returns

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

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

[IFiscalCountryProperties](#) 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
------	-------------

[List<IFiscalCountryProperties>](#) 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?](#)

GetLastDocument(bool)

Returns the last stored document to document store.

Declaration

```
public 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

```
public 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).

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, DateTime?)

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

Declaration

```
public static Document GetStartDocument(Guid uniqueClientId, DateTime? bookDate = null)
```

Parameters

Type	Name	Description
Guid	uniqueClientId	The client for which the start document should be created.
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.

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

[string](#) The standard local store path for the individual client given by `uniqueClientId`.

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

[string](#) 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
------	-------------

[Vat](#) 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
------	-------------

[string](#) The unique cash register id (storenumber/terminalnumber).

Exceptions

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

[InvalidOperationException](#) 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
------	------	-------------

[decimal](#) vatPercent The vat percentage for the requested vat identification.

[DateTime](#) requestDate The date/time for the requested vat identification.

Returns

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

[int?](#) 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
------	------	-------------

[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.

Remarks

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

Exceptions

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

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

[ArgumentOutOfRangeException](#) Thrown if clientid of document does not match clientid of fiscal module or if documenttype is not set to [NullReceipt](#).

[ValidationException](#) Thrown if one or more document validation errors where raised. You can use [ValidateDocument\(Document, bool, bool\)](#) 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
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.

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 different fiscal systems: EFSTA Supported countries for migration: AT

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

Exceptions

Type	Condition
InvalidDataException	Thrown if the client is not in state NotInitialized .
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.
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .

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
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.

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
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

Type	Condition
FileNotFoundException	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
User 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
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).

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
ArgumentNullException	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
Guid	documentGuid	The document guid to reference the document which should be reprinted.
User	user	The user which is requesting the reprint. Not null.
string	reason	The reason for the duplicate. Optional for normal Receipt . Mandatory for LongTermOrder .
int	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
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).

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
ArgumentNullException	Thrown if parameter <code>documentGuid</code> is set to Empty .

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

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

[KeyNotFoundException](#) 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
------	------	-------------

[Document](#) document The document to revert.

Returns

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

[Document](#) The reverted document.

Remarks

There is no document validation done in this method.

Exceptions

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

[ArgumentNullException](#) Thrown if parameter `document` 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
------	------	-------------

[Document](#) document The document to store.

Returns

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

[FiscalResponse](#) The [FiscalResponse](#) 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
------	-----------

[ValidationException](#) Thrown if one or more document validation errors where raised. You can use [ValidateDocument\(Document, bool, bool\)](#) to test if your document has validation errors.

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

[InvalidOperationException](#) Thrown if `Document.UniqueClientId` is set to [Empty](#) or given `clientId` does not match fiscal client guid.

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

[InvalidDataException](#) Thrown if book date of document is out of the range of the [MaximumHourIntervalForClosing](#).

[ArgumentException](#) Thrown if [FiscalResponse](#) 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
------	------	-------------

string	cloudapiKey	The api key for cloud connection.
------------------------	-------------	-----------------------------------

string	cloudapiSecret	The api secret for cloud connection.
------------------------	----------------	--------------------------------------

bool	forceUpdate	Forces to download new licensekey from cloud.
----------------------	-------------	---

Returns

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

string	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
------	------	-------------

string	newVersion	The new version which is used. Not null and empty.
------------------------	------------	--

Returns

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

bool	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
ArgumentNullException	Thrown if parameter <code>newVersion</code> is set to null or Empty .

UploadDigitalReceipt(Stream, ReceiptMetaData)

Uploads digital receipt (if proper license exists).

Declaration

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

Parameters

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

Stream	file	The pdf file as stream.
------------------------	------	-------------------------

ReceiptMetaData	receiptMetaData	The metadata for the receipt.
---------------------------------	-----------------	-------------------------------

Returns

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

string	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
ArgumentNullException	Thrown if parameter <code>file</code> is set to null.

Type **Condition**

[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
------	------	-------------

Stream	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
------	-------------

string	An url to request the file in the cloud.
------------------------	--

Remarks

You can only use documents from the actual day.

Exceptions

Type **Condition**

[ArgumentNullException](#) Thrown if parameter `file` 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
------	------	-------------

string	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**

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

[InvalidOperationException](#) Thrown if [CloudConnect](#) was not called in front or `cloudApiKey/cloudApiSecret` were not supplied for [CloudConnect](#).

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
------	------	-------------

Document	document	The document to validate.
--------------------------	----------	---------------------------

bool	cancelledDocument	True if the document was cancelled before storing ("SOFORTSTORNO","BONABBRUCH"); otherwise false. In this case other parameters are checked. Default is False.
----------------------	-------------------	--

bool	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.
----------------------	-----------------	--

Returns

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

Type**Description**

[List<DocumentValidationError>](#) A list of [DocumentValidationError](#) 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**

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

[ArgumentException](#) Thrown if both parameter `cancelledDocument` and `reprintDocument = true`.

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, string)

Constructor.

Declaration

```
protected TrustedFiscalModuleBase(FiscalClient client, ILogger logger, string logSource, string storageBasePath = "")
```

Parameters

Type	Name	Description
FiscalClient	client	The fiscal client for the modules.
ILogger	logger	The logger for this class.
string	logSource	The log source for this class.
string	storageBasePath	The storage base path for the fiscal module. If not set standard local store path (c:\programData\RetailForce\FiscalWebService) is used.

Exceptions

Type

Condition

Type

Condition

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

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

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

Fields

Client

The fiscal client for this module.

Declaration

```
protected readonly FiscalClient Client
```

Field Value

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

FiscalClient	
------------------------------	--

Properties

FiscalClient

The fiscal client of the `TrustedFiscalModule`.

Declaration

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

Property Value

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

FiscalClient	
------------------------------	--

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

```
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

```
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
ILogger	logger	A logger for logging purposes.
string	localTempFileStorePath	Base path of the local file store
ProxyConfiguration	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
Guid	uniqueClientId	The clientId of the client to delete the backup.
string	apiKey	The api key for cloud connection.
string	apiSecret	The api secret for cloud connection.
DateTime	backupDate	The date of the backup to be deleted.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>uniqueClientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>apiKey</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>apiSecret</code> is set to null or Empty .

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
string	sasUrl	Url with the shared access signatures
string	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
string	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
string	apiKey	
string	apiSecret	
Guid	uniqueClientId	
string	license	
DateTime	fromDate	
DateTime	tillDate	

Returns

Type	Description
List<string>	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
string	fullFileName	

Returns

Type	Description
Guid	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
string	apiKey	
string	apiSecret	
Guid	uniqueClientId	
string	license	

Returns

Type	Description
int	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
string	apiKey	
string	apiSecret	
Guid	uniqueClientId	
string	license	
string	cloudFolder	
string	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
CloudClientSettings	clientSettings	
bool	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
CloudClientSettings	clientSettings	The client settings for the cloud client. Not null.
DateTime?	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
ArgumentNullException	Thrown if parameter <code>clientSettings</code> is set to null.
AuthenticationException	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
string	licenseToken	License token to validate the license
Guid	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
string	licenseToken	License token to validate the license
Guid	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
string	licenseToken	License token to validate the license
Guid	uniqueClientId	Client id from the fiscalisation
string	fileType	type of the file (in the cloud it will be stored as directory)
string	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
Guid	uniqueClientId	Client id from the fiscalisation
string	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
string	licenseToken	License token to validate the license
Guid	uniqueClientId	Client id from the fiscalisation
string	fileType	type of the file (in the cloud it will be stored as directory)
string	fileName	name of the file after upload in the cloud

Returns

Type Description

[string](#)

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
Guid	uniqueClientId	The id of the client.
string	licenseToken	The necessary license token for upload.
string	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
CloudClientSettings	clientSettings	
string	licenseToken	
string	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
CloudClientSettings	clientSettings	
string	licenseToken	
string	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
List<CloudFunctionCallParameter>	

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
string	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
string	name	The name of the parameter (query parameter, body parameter, etc.)
ValueEntity	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
string	name	The name of the parameter (query parameter, body parameter, etc.)
bool	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
string	name	The name of the parameter (query parameter, body parameter, etc.)
DateTime	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
string	name	The name of the parameter (query parameter, body parameter, etc.)
Enum	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
string	name	The name of the parameter (query parameter, body parameter, etc.)
Guid	value	The value of the parameter.
ParameterType	parameterType	The type of the parameter. See ParameterType for more information.

CloudFunctionCallParameter(string, int, ParameterType)

Constructor.

Declaration

```
public CloudFunctionCallParameter(string name, int value, ParameterType parameterType)
```

Parameters

Type	Name	Description
string	name	The name of the parameter (query parameter, body parameter, etc.)
int	value	The value of the parameter.
ParameterType	parameterType	The type of the parameter. See ParameterType for more information.

CloudFunctionCallParameter(string, long, ParameterType)

Constructor.

Declaration

```
public CloudFunctionCallParameter(string name, long value, ParameterType parameterType)
```

Parameters

Type	Name	Description
string	name	The name of the parameter (query parameter, body parameter, etc.)
long	value	The value of the parameter.
ParameterType	parameterType	The type of the parameter. See ParameterType for more information.

CloudFunctionCallParameter(string, string, ParameterType)

Constructor.

Declaration

```
public CloudFunctionCallParameter(string name, string value, ParameterType parameterType)
```

Parameters

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

<u>string</u>	Type	Name	Description
		name	The name of the parameter (query parameter, body parameter, etc.)

<u>string</u>		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**

[List<string>](#)

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
ILogger	logger	
string	localStoragePath	
bool	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
ILogger	logger	
string	localStoragePath	
Guid	uniqueClientId	
string	cloudApiKey	
string	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
IEnumerable<string>	

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
Guid	uniqueClientId	
string	accessKey	
string	accessSecret	
string	accessLicenseId	
string	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
Guid	uniqueClientId	The id of the client where the temp upload directory is requested.

Returns

Type	Description
string	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
ArgumentNullException	Thrown if parameter <code>uniqueClientId</code> is set to Empty .

RaiseAuthenticationFailure(Guid, string, string)

Declaration

```
protected void RaiseAuthenticationFailure(Guid uniqueClientId, string cloudApiKey, string cloudApiSecret)
```

Parameters

Type	Name	Description
Guid	<code>uniqueClientId</code>	
string	<code>cloudApiKey</code>	
string	<code>cloudApiSecret</code>	

RaiseFileUploadFailure(Guid, string, Exception)

Declaration

```
protected FileUploadFailureEventArgs RaiseFileUploadFailure(Guid clientId, string filenamePath, Exception exception)
```

Parameters

Type	Name	Description
Guid	<code>clientId</code>	
string	<code>filenamePath</code>	
Exception	<code>exception</code>	

Returns

Type	Description
FileUploadFailureEventArgs	

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
Guid	<code>uniqueClientId</code>	
string	<code>cloudApiKey</code>	
string	<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
CloudService.AuthenticationFailureEventHandler	

FileUploadFailure

Raised when file upload error occurs.

Declaration

```
public event CloudService.FileUploadFailureEventHandler FileUploadFailure
```

Event Type

Type	Description
CloudService.FileUploadFailureEventHandler	

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
object	sender	
AuthenticationFailureEventArgs	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
object	sender	The sender of the event.
FileUploadFailureEventArgs args	The FileUploadFailureEventArgs	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
------	------	-------------

Type	valueType	
----------------------	-----------	--

object	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.

[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 FromAdress(Address objectInheritsAddress)
```

Parameters

Type	Name	Description
Address	objectInheritsAddress	

Returns

Type	Description
Address	

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

[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
------	------	-------------

Type	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.
Type	objectType	Type of the object.
object	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.
object	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

[JsonConfigurationProviderBase](#)

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

Clients

The list of all clients stored at this provider.

Declaration

```
protected Dictionary<Guid, FiscalClient> Clients
```

Field Value

Type	Description
Dictionary<Guid, FiscalClient>	

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 bool ClientExists(CompanyIdentification companyIdentification, string storeNumber, string terminalNumber)
```

Parameters

Type	Name	Description
CompanyIdentification	companyIdentification	
string	storeNumber	
string	terminalNumber	

Returns

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

[bool](#) True if the given client exists; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if the parameter <code>companyIdentification</code> is set to null.
ArgumentNullException	Thrown if the parameter <code>storeNumber</code> is set to null or <code>string.Empty</code> .
ArgumentNullException	Thrown if the parameter <code>terminalNumber</code> is set to null or <code>string.Empty</code> .

ClientExists(Guid)

Returns whether the given client exists in the client dictionary.

Declaration

```
public 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.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

ClientExists(Guid, string, string)

Returns whether the given client exists in the client dictionary.

Declaration

```
public bool ClientExists(Guid licenseConsumerId, string storeNumber, string terminalNumber)
```

Parameters

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

Guid	licenseConsumerId	
----------------------	-------------------	--

string	storeNumber	
------------------------	-------------	--

string	terminalNumber	
------------------------	----------------	--

Returns

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

bool	True if the given client exists; otherwise false.
----------------------	---

Exceptions

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

ArgumentNullException	Thrown if the parameter <code>licenseConsumerId</code> is set to Empty .
---------------------------------------	--

ArgumentNullException	Thrown if the parameter <code>storeNumber</code> is set to null or <code>string.Empty</code> .
---------------------------------------	--

ArgumentNullException	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 void CreateClient(FiscalClient client)
```

Parameters

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

FiscalClient	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
------	------	-------------

Guid	uniqueClientId	The unique client id of the fiscal client of the configuration.
----------------------	----------------	---

string	stringToDecrypt	The string to decrypt.
------------------------	-----------------	------------------------

Returns

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

string	The decrypted string.
------------------------	-----------------------

DeleteClient(Guid)

This method deletes the client from the configuration (and stores the configuration to disk).

Declaration

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

Parameters

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

Guid	clientId	The id of the client to delete.
----------------------	----------	---------------------------------

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
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
------	------	-------------

Guid	uniqueClientId	The unique client id of the fiscal client of the configuration.
----------------------	----------------	---

string	stringToEncrypt	The string to encrypt.
------------------------	-----------------	------------------------

Returns

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

string	The encrypted string.
------------------------	-----------------------

GetClientConfiguration(Guid)

Returns the client configuration for the requested id.

Declaration

```
public FiscalClient GetClientConfiguration(Guid clientId)
```

Parameters

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

Guid	clientId	The id (Guid) of the requested client configuration.
----------------------	----------	--

Returns

Type	Description
FiscalClient	The client configuration for the requested id.

Exceptions

Type	Condition
ArgumentOutOfRangeException	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 Guid[] GetClients()
```

Returns

Type	Description
Guid[]	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 bool TryGetClientConfiguration(Guid clientId, out FiscalClient fiscalClient)
```

Parameters

Type	Name	Description
Guid	<code>clientId</code>	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 fo clients stored as the system

Declaration

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

Parameters

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

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

Exceptions

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

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

[KeyNotFoundException](#) 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.
string	declaringTypeName	The name of the declaring type of the property with the validation error.
string	propertyName	The name of the property with the validation error.
string	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
List<ValidationError>	

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
List<ValidationError>	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](#)

[JsonConfigurationProviderBase](#)

FileConfigurationProvider

Inherited Members

[JsonConfigurationProviderBase.GetJsonConfiguration\(\)](#)

[JsonConfigurationProviderBase.GetFiscalClients\(string\)](#)

[ConfigurationProviderBase.Clients](#)

[ConfigurationProviderBase.EncryptionSalt](#)

[ConfigurationProviderBase.DecryptString\(Guid, string\)](#)

[ConfigurationProviderBase.EncryptString\(Guid, string\)](#)

[ConfigurationProviderBase.CreateClient\(FiscalClient\)](#)

[ConfigurationProviderBase.GetClients\(\)](#)

[ConfigurationProviderBase.UpdateClient\(FiscalClient\)](#)

[ConfigurationProviderBase.DeleteClient\(Guid\)](#)

[ConfigurationProviderBase.GetClientConfiguration\(Guid\)](#)

[ConfigurationProviderBase.TryGetClientConfiguration\(Guid, out FiscalClient\)](#)

[ConfigurationProviderBase.ClientExists\(Guid\)](#)

[ConfigurationProviderBase.ClientExists\(CompanyIdentification, string, string\)](#)

[ConfigurationProviderBase.ClientExists\(Guid, string, string\)](#)

[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
string	configurationFile	The path to the configuration file. If no configuration file is found a new one is created.
ILogger	logger	The logger to log checksum errors.

Exceptions

Type

Condition

[DirectoryNotFoundException](#) Thrown if the path of the given `configurationFile` is not found.

[ArgumentNullException](#) Thrown if parameter `configurationFile` is set to null or empty string.

[ArgumentNullException](#) Thrown if parameter `logger` 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

[bool](#) 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
List<Parameter>	

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
DigitalReceipt	

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
------	------	-------------

FiscalClient	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
------	------	-------------

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.
------------------------	---------------------------------------

ToString()

Returns the client as string representation.

Declaration

```
public override string ToString()
```

Returns

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

string	
------------------------	--

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
------	------	-------------

bool	recursive	True if sub objects should also be checked; otherwise false.
----------------------	-----------	--

Returns

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

List<ValidationError>	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
------	-------------

List<ValidationError>	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
FiscalCountry	fiscalCountry	
FiscalCountry[]	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
FiscalCountry	

Methods

Encrypt(Guid)

Encrypts sensitive data.

Declaration

```
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

```
void PreserveValues(IFiscalImplementationConfiguration oldConfiguration)
```

Parameters

Type	Name	Description
IFiscalImplementationConfiguration	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
List<FiscalClient>	clients	

Properties

FiscalClients

The list of fiscal clients.

Declaration

```
public List<FiscalClient> FiscalClients { get; set; }
```

Property Value

Type	Description
List<FiscalClient>	

Class JsonConfigurationProviderBase

Base class to read configuration from json string.

Inheritance

[object](#)

[ConfigurationProviderBase](#)

JsonConfigurationProviderBase

[FileConfigurationProvider](#)

Inherited Members

[ConfigurationProviderBase.Clients](#)

[ConfigurationProviderBase.EncryptionSalt](#)

[ConfigurationProviderBase.DecryptString\(Guid, string\)](#)

[ConfigurationProviderBase.EncryptString\(Guid, string\)](#)

[ConfigurationProviderBase.CreateClient\(FiscalClient\)](#)

[ConfigurationProviderBase.GetClients\(\)](#)

[ConfigurationProviderBase.UpdateClient\(FiscalClient\)](#)

[ConfigurationProviderBase.DeleteClient\(Guid\)](#)

[ConfigurationProviderBase.GetClientConfiguration\(Guid\)](#)

[ConfigurationProviderBase.TryGetClientConfiguration\(Guid, out FiscalClient\)](#)

[ConfigurationProviderBase.ClientExists\(Guid\)](#)

[ConfigurationProviderBase.ClientExists\(CompanyIdentification, string, string\)](#)

[ConfigurationProviderBase.ClientExists\(Guid, string, string\)](#)

[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 : ConfigurationProviderBase
```

Methods

GetFiscalClients(string)

Sets internal clients object based from the json configuration string.

Declaration

```
protected void GetFiscalClients(string jsonConfigurationString)
```

Parameters

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

string	jsonConfigurationString	
------------------------	-------------------------	--

GetJsonConfiguration()

Returns a string containing the json configuration.

Declaration

protected string GetJsonConfiguration()

Returns

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

string	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
Parameter	other	An object to compare with this object.

Returns

Type	Description
bool true	if the current object is equal to the <code>other</code> parameter; otherwise, false .

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
OfflineConfiguration	

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 (yyyyMMddhhmmssnn) 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
Guid	clientId	The id of the client where the average data is requested.
string	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
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>performanceCounterId</code> is set null or Empty .
KeyNotFoundException	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
Guid	clientId	The id of the client of the requested performance counter id.
string	performanceCounterId	The id of the performance counter of the requested performance counter id.

Returns

Type	Description
string	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
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>performanceCounterId</code> is set null or Empty .

GetPerformanceCounterIds(Guid)

Returns all performance counter id's for the given client.

Declaration

```
public static List<string> GetPerformanceCounterIds(Guid clientId)
```

Parameters

Type	Name	Description
Guid	clientId	The id of the client where the performance counters are requested.

Returns

Type	Description
List<string>	A list of all performance counter id's for the given client.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

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
Guid	clientId	The id of the client where the average data should be removed.
string	performanceCounterId	The id of the performance counter where the average data should be removed.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>performanceCounterId</code> is set null or Empty .

ResetAveragePerformanceCounterClient(Guid)

Resets all average data for the given client.

Declaration

```
public static void ResetAveragePerformanceCounterClient(Guid clientId)
```

Parameters

Type	Name	Description
Guid	clientId	The id of the client where the average data should be removed.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

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
------	------	-------------

Guid	clientId	The client for the generated label.
----------------------	----------	-------------------------------------

string	label	The label itself.
------------------------	-------	-------------------

Returns

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

string	A progress information label for a client and the given label.
------------------------	--

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

ArgumentNullException	Thrown if parameter <code>label</code> is set to null or Empty .
---------------------------------------	--

GetClientProgressLabels(Guid)

Returns all progress information labels for the given client.

Declaration

```
public static IEnumerable<string> GetClientProgressLabels(Guid clientId)
```

Parameters

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

Guid clientId	The id of the client where the progress information labels are requested.
-------------------------------	---

Returns

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

IEnumerable<string>	A list of all progress information labels for the given client.
---	---

Exceptions

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

ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
---------------------------------------	---

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
-----------	-------------

Guid clientId	The id of the client where the progress information is requested.
-------------------------------	---

string label	The label of the requested progress information.
------------------------------	--

Returns

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

int	The progress information for the given client and label.
---------------------	--

Exceptions

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

ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
---------------------------------------	---

ArgumentNullException	Thrown if parameter <code>label</code> is set to null or Empty .
---------------------------------------	--

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
------	------	-------------

string	message	
------------------------	---------	--

ClosingRequiredException(string, Exception)

Declaration

```
public ClosingRequiredException(string message, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
Exception	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
------	------	-------------

string	message	
------------------------	---------	--

CloudNotConnectedException(string, Exception)

Declaration

```
public CloudNotConnectedException(string message, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
Exception	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
Document	document	The document containing the errors.
List<string>	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
------	------	-------------

Document	document	The document containing the errors.
--------------------------	----------	-------------------------------------

string[]	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
------	-------------

Document	
--------------------------	--

ErrorList

The list of errors of the document.

Declaration

```
public List<string> ErrorList { get; set; }
```

Property Value

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

List<string>	
------------------------------------	--

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
string	message	
Exception	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
ITypeDescriptorContext	context	An ITypeDescriptorContext that provides a format context.
CultureInfo	culture	An optional CultureInfo . If not supplied, the current culture is assumed.
object	value	The object to convert.

Returns

Type Description

[object](#) An [object](#) that represents the converted value.

Overrides

[EnumConverter.ConvertFrom\(ITypeDescriptorContext, CultureInfo, object\)](#)

Exceptions

Type	Condition
FormatException	value is not a valid value for the target type.
NotSupportedException	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
------	------	-------------

string	helpText	
------------------------	----------	--

string	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
------	-------------

object	An object 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
Guid	clientId	The client which has requested the license.
string	requestedLicenseId	The requested access license.

Type	Name	Description
string	message	The message of the exception.

LicenseException(string)

Constructor.

Declaration

```
public LicenseException(string message)
```

Parameters

Type	Name	Description
string	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
string	retailForceReceiptId	

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>retailForceReceiptId</code> is set to null or Empty .
ArgumentException	Thrown if parameter <code>retailForceReceiptId</code> does not have 6 characters.
FormatException	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
------	------	-------------

string	globalShortTerminalId	
------------------------	-----------------------	--

uint	sequenceNr	
----------------------	------------	--

RetailForceReceiptId(uint, uint)

Constructor.

Declaration

```
public RetailForceReceiptId(uint globalShortTerminalId, uint sequenceNr)
```

Parameters

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

uint	globalShortTerminalId	
----------------------	-----------------------	--

uint	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
uint	globalShortTerminalId	The terminal id to convert.
uint	sequenceNr	The document sequence number to convert.

Returns

Type	Description
string	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
string	retailForceReceiptId	The string representation of the global unique retailforce id to convert.

Returns

Type	Description
Tuple<uint, uint>	A tuple representing the terminal id and document sequence number.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>retailForceReceiptId</code> is set to null or Empty .
ArgumentException	Thrown if parameter <code>retailForceReceiptId</code> does not have 6 characters.
FormatException	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
-----------	-------------

uint value	The integer value to convert.
----------------------------	-------------------------------

Returns

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

string	A string value representing the base62 representation of an unsigned integer value.
------------------------	---

Exceptions

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

ArgumentOutOfRangeException	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
------	------	-------------

string	<code>fourDigitId</code>	The string to convert to integer.
------------------------	--------------------------	-----------------------------------

Returns

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

uint	An unsigned integer representing the value for the four digit base62 string.
----------------------	--

Exceptions

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

ArgumentNullException	Thrown if parameter <code>fourDigitId</code> is null or Empty .
---------------------------------------	---

ArgumentException	Thrown if parameter <code>fourDigitId</code> is not 4 characters long.
-----------------------------------	--

ArgumentException	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
------	-------------

string	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
------	------	-------------

Type	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.
Type	objectType	Type of the object.
object	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.
object	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
Dictionary<string, object>	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
Dictionary<string, string>	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
------	------	-------------

string	<code>entryName</code>	The entry name (file name) in the zip file.
------------------------	------------------------	---

string	<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
string	<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
------	------	-------------

string	entryName	
------------------------	-----------	--

bool	ignoreCase	
----------------------	------------	--

Returns

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

bool	
----------------------	--

Create(string, ILogger)

Create new zip file

Declaration

```
public static ZipFileExtended Create(string file, ILogger logger)
```

Parameters

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

string	file	
------------------------	------	--

ILogger	logger	
-------------------------	--------	--

Returns

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

ZipFileExtended	
---------------------------------	--

GetEntries()

Get Entries

Declaration

```
public List<string> GetEntries()
```

Returns

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

List<string>	
------------------------------------	--

GetJsonEntries<T>(List<string>, JsonSerializerSettings)

Get json entry

Declaration

```
public List<T> GetJsonEntries<T>(List<string> entryNames, JsonSerializerSettings settings = null)
```

Parameters

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

List<string>	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
string	entryName	
JsonSerializerSettings	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
string	file	
ILogger	logger	

Returns

Type	Description
ZipFileExtended	

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
------	------	-------------

Stream	outputStream	stream must be open and write able
------------------------	--------------	------------------------------------

Dictionary<string, string>	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
------	------	-------------

string	countryCode	The iso alpha 2 country code to map.
------------------------	-------------	--------------------------------------

Returns

Type	Description
FiscalCountry	The fiscal country (FiscalCountry) from the iso alpha 2 code (case insensitive).

Exceptions

Type	Condition
NotImplementedException	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
FiscalCountry	fiscalCountry	The fiscal country to map.

Returns

Type	Description
string	The iso alpha 2 code form the FiscalCountry .

Exceptions

Type	Condition
NotImplementedException	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
Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>>	

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
List<EntityParameterInfo>	

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
FiscalCountry	

FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

Declaration

```
public abstract List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

Type	Description
List<DocumentType>	

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
List<BusinessTransactionType>	

NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

Declaration

```
public abstract List<DocumentType> NotSupportedDocumentTypes { get; }
```

Property Value

Type	Description
List<DocumentType>	

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
List<PayOutType>	

NotSupportedPaymentTypes

Returns a list of all not supported payment types.

Declaration

```
public abstract List<PaymentType> NotSupportedPaymentTypes { get; }
```

Property Value

Type	Description
List<PaymentType>	

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
------	-------------

[List<BusinessTransactionType>](#)

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
------	-------------

[List<DocumentType>](#)

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
------	-------------

[List<FiscalModuleEnvironment>](#)

SupportedPayOutTypes

Returns a list of all supported pay out types.

Declaration

```
public virtual List<PayOutType> SupportedPayOutTypes { get; }
```

Property Value

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

[List<PayOutType>](#)

SupportedPaymentTypes

Returns a list of all supported payment types.

Declaration

```
public abstract List<PaymentType> SupportedPaymentTypes { get; }
```

Property Value

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

[List<PaymentType>](#)

SupportedVatDefinitions

Returns the supported vat definitions for this country.

Declaration

```
public abstract ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

Property Value

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

ReadOnlyCollection<Vat>	
---	--

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
------	------	-------------

List<ValidationError>	errorList	The error list to add possible validation errors.
---	-----------	---

Type	Name	Description
string	objectName	The name of the object for the error message.

Address	address	The address object itself.
-------------------------	---------	----------------------------

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>errorList</code> is set to null.

ArgumentNullException	Thrown if parameter <code>objectName</code> is set to null or Empty .
---------------------------------------	---

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
FiscalClient	client	The client to check.
CompanyIdentification.IdentificationType	type	The type to check.

Returns

Type	Description
bool	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
FiscalClient	client	The client to validate.

Returns

Type	Description
List<ValidationError>	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
ArgumentNullException	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
FiscalClient	client	

Returns

Type	Description
List < 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
Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>>	

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
List<EntityParameterInfo>	

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
FiscalCountry	

FiscalDocumentTypes

Returns a list of all fiscal necessary document types for this country.

Declaration

```
List<DocumentType> FiscalDocumentTypes { get; }
```

Property Value

Type	Description
List<DocumentType>	

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
bool	

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
bool	

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
List<string>	

GetCloudArchiveAccessLicense

Returns the cloud archive access license for the respective country.

Declaration

```
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

```
[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
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

```
[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
List<BusinessTransactionType>	

NotSupportedDocumentTypes

Returns a list of not supported document types (normal case: [MiscellaneousNonFiscal](#)).

Declaration

```
List<DocumentType> NotSupportedDocumentTypes { get; }
```

Property Value

Type	Description
List<DocumentType>	

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
List<PayOutType>	

NotSupportedPaymentTypes

Returns a list of all not supported payment types.

Declaration

```
List<PaymentType> NotSupportedPaymentTypes { get; }
```

Property Value

Type	Description
List<PaymentType>	

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
ReceiptDomain	

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
ReturnAndSaleBehavior	

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
ReceiptDomain	

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
ReturnReferenceBehavior	

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
DocumentType	

StoreNumberValidCharsRegex

The valid characters for the store number in this country (default: a-z0-9_).

Declaration

```
string StoreNumberValidCharsRegex { get; }]
```

Property Value

Type	Description
string	

SupportedBusinessTransactionTypes

Returns a list of all supported business transaction types.

Declaration

```
List<BusinessTransactionType> SupportedBusinessTransactionTypes { get; }]
```

Property Value

Type	Description
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<FiscalModuleEnvironment>	

SupportedPayOutTypes

Returns a list of all supported pay out types.

Declaration

```
List<PayOutType> SupportedPayOutTypes { get; }
```

Property Value

Type	Description
List<PayOutType>	

SupportedPaymentTypes

Returns a list of all supported payment types.

Declaration

```
List<PaymentType> SupportedPaymentTypes { get; }
```

Property Value

Type	Description
List<PaymentType>	

SupportedVatDefinitions

Returns the supported vat definitions for this country.

Declaration

```
ReadOnlyCollection<Vat> SupportedVatDefinitions { get; }
```

Property Value

Type	Description
ReadOnlyCollection<Vat>	

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
bool	

TaxFreeVat

The tax free vat class for this country.

Declaration

```
Vat TaxFreeVat { get; }
```

Property Value

Type	Description
Vat	

TerminalNumberValidCharsRegex

The valid characters for the terminal number in this country (default: a-z0-9_).

Declaration

```
string TerminalNumberValidCharsRegex { get; }
```

Property Value

Type	Description
string	

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
FiscalClient	client	The client to validate.

Returns

Type	Description
List<ValidationError>	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
ArgumentNullException	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.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>, FiscalModuleEnvironment, string, CloudService, string, string)

Constructor.

Declaration

```
protected TrustedFiscalModuleImplementationBase(FiscalClient client, ILogger logger, string logSource, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleE
```

Parameters

Type	Name	Description
FiscalClient	client	The fiscal client for the modules.
ILogger	logger	The logger for this class.
string	logSource	The name of the source when a log entry is written. Replace in country implementation with nameof(TrustedFiscalModule(CountryName)).
Action<IFiscalImplementationConfiguration>	storeConfiguration	Action to store the configuration to the configuration file (if necessary).
FiscalModuleEnvironment	environment	The environment of the fiscal module (local, cloud, rf fiscal platform).
string	storageBasePath	The storage base path for the fiscal module. If not set standard local store path (c:\programData\RetailForce\Fiscal WebService) is used.
CloudService	cloudService	The service to connect to the retailforce cloud system. Optional.
string	cloudApiKey	The api key for cloud authentication. Optional.

Type	Name	Description
string	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
ArgumentNullException	Thrown if <code>client</code> is set to null.
ArgumentNullException	Thrown if <code>logger</code> is set to null.
ArgumentNullException	Thrown if <code>logSource</code> is set to null or Empty .
ArgumentNullException	Thrown if <code>storeConfiguration</code> is set to null.
ArgumentException	Thrown if property FiscalModuleImplementationConfiguration is null or not of type <code>TClientConfiguration</code> .
CloudNotConnectedException	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
ICertificateStore	

ClientConfiguration

Declaration

```
protected TClientConfiguration ClientConfiguration
```

Field Value

Type	Description
<code>TClientConfiguration</code>	

CloudApiKey

Declaration

```
protected string CloudApiKey
```

Field Value

Type	Description
string	

CloudApiSecret

Declaration

```
protected string CloudApiSecret
```

Field Value

Type	Description
string	

ModuleEnvironment

Declaration

```
protected FiscalModuleEnvironment ModuleEnvironment
```

Field Value

Type	Description
FiscalModuleEnvironment	

Properties

CloudArchive

True when cloud archive is activated; otherwise false.

Declaration

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

Property Value

Type	Description
bool	

CloudMessagesQueued

Returns the count of actual queued cloud files waiting for upload.

Declaration

```
protected int CloudMessagesQueued { get; }
```

Property Value

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
TrustedFiscalModule	

Methods

AddAuditLog(AuditLogEntry)

Method to add audit log to the country specific system.

Declaration

```
public virtual FiscalResponse AddAuditLog(AuditLogEntry auditLogEntry)
```

Parameters

Type	Name	Description
AuditLogEntry	auditLogEntry	The audit log entry to store.

Returns

Type	Description
FiscalResponse	FiscalResponse of the respective country or null if not necessary (depends on the country implementation).

Exceptions

Type	Condition
ArgumentNullException	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
CloudFunctionCall	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
ArgumentNullException	Thrown if parameter <code>functionCall</code> is set to null.

CancelDocument(Document)

Cancel a document on the fiscal interface.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
------	------	-------------

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

Guid	documentGuid	The guid of the document to cancel.
----------------------	--------------	-------------------------------------

Exceptions

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
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.

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
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.

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
string	line1	The first line to display.
string	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
string	certificateName	The id of the certificate to download; if null the default certificate is downloaded.
bool	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.
string	certificateUrl	The url of the certificate download endpoint. Default:

Exceptions

Type	Condition
FileAlreadyExistsException	Thrown if the certificate already exists and overWrite is set to false.
CertificateException	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
bool	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.

Exceptions

Type	Condition
InvalidOperationException	Thrown if cloud credentials are not set for authentication to cloud.
FileAlreadyExistsException	Thrown if the certificate already exists and overWrite is set to false.
CertificateException	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
bool	overWrite	True if the current certificate should be overwritten; otherwise false. Default is false.

Exceptions

Type	Condition
FileAlreadyExistsException	Thrown if the certificate already exists and overWrite is set to false.
CertificateException	Thrown if the certificate could not be downloaded or the downloaded certificate is not valid any more.
InvalidOperationException	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
------	------	-------------

Type	Name	Description
DateTimeOffset?	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.

DateTimeOffset?	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.

GetCountryUnspecificFiscalClientStatus()

Declaration

```
protected FiscalClientStatus GetCountryUnspecificFiscalClientStatus()
```

Returns

Type	Description
FiscalClientStatus	

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

Parameters

Type	Name	Description
bool	onlyAsync	True if only error documents should be returned which were generated in asynchronous operation.

Returns

Type	Description
List<Guid>	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
NotImplementedException	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
string	certificateName	The id of the certificate. If null default is returned.

Returns

Type	Description
X509Certificate2	A X509Certificate2 object representing the requested certificate.

Exceptions

Type	Condition
CertificateException	

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
string	certificateName	The id of the certificate. If null default is returned.
string	certificateAlias	The alias for getting the right certificate / key from the storage.

Returns

Type	Description
ISignatureInterface	A X509SignatureInterface object representing the signature interface for the requested external certificate.

Exceptions

Type	Condition
CertificateException	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
string	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
ISignatureVerifyInterface	A X509SignatureVerifyInterface 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
ISignatureInterface	A X509SignatureInterface 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
------	-------------

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

[Vat](#) 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.

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
------	------	-------------

[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
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.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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 abstract 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.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

OpenDrawer(User)

Opens a drawer if drawer is attached to fiscal printer.

Declaration

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

Parameters

Type	Name	Description
User	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
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.

Type	Name	Description
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).

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
string	cloudApiKey	The api key for cloud authentication to the retailforce cloud.
string	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

byte[]	data	The data to sign.
------------------------	------	-------------------

Returns

Type	Description
string	The signature as base64-url-encoded value.

StoreConfiguration(TClientConfiguration)

Declaration

```
protected virtual void StoreConfiguration(TClientConfiguration configuration)
```

Parameters

Type	Name	Description
TClientConfiguration	configuration	configuration

StoreDocument(Document)

Stores a document to the fiscal interface.

Declaration

```
public abstract 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.

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
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 .
FileAlreadyExistsException	Thrown if the given certificate already exists and parameter overwrite 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	
Stream	file	The file as stream (pdf).

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter file 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
Document	document	The document to validate.
bool	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

Returns

Type	Description
List<DocumentValidationError>	The list of document validation errors.

ValidateDocumentImplementation(Document, bool)

Declaration

```
protected abstract List<DocumentValidationError> ValidateDocumentImplementation(Document document, bool reprintDocument = false)
```

Parameters

Type	Name	Description
Document	document	
bool	reprintDocument	

Returns

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

[List<DocumentValidationError>](#)

ValidateFiscalClient(Document)

Validates the fiscal client for the given document.

Declaration

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

Parameters

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

[Document](#) document The document containing the fiscal client.

Returns

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

[List<DocumentValidationError>](#) A list of document validation errors.

Exceptions

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

[ArgumentNullException](#) Thrown if parameter `document` 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
------	------	-------------

[byte\[\]](#) data The data which was signed before.

[string](#) signature The base64-url-encoded signature to verify.

Returns

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

[bool](#) 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
------	------	-------------

[string](#) 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

[IFiscalModuleImplementation](#)

[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>.SupportedEnvironments](#)

[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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
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
------	-------------

[List<DocumentType>](#)

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](#).

SupportedPaymentTypes

Returns a list of all supported payment types.

Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

Property Value

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

[List<PaymentType>](#)

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
------	-------------

[ReadOnlyCollection<Vat>](#)

Overrides

[FiscalCountryPropertiesBase<AustrianFiscalisationRequiredAttribute>.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<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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

ValidateDocumentPosition(List<DocumentValidationError>, DateTimeOffset, DocumentPositionBase)

Declaration

```
public static void ValidateDocumentPosition(List<DocumentValidationError> errorList, DateTimeOffset bookDate, DocumentPositionBase position)
```

Parameters

Type	Name	Description
List<DocumentValidationError>	errorList	
DateTimeOffset	bookDate	
DocumentPositionBase	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
------	-------------

FiscalCountry	
-------------------------------	--

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
Dictionary<string, DateTime?>	

SignDeviceConfiguration

The sign device driver configuration.

Declaration

```
public List<SignDeviceConfiguration> SignDeviceConfiguration { get; set; }
```

Property Value

Type	Description
List<SignDeviceConfiguration>	

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
IFiscalImplementationConfiguration	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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
string	fiscalDocumentNumber	The fiscalisation document number as string.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	qrCode	The qr code of the response.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
FiscalResponse	fiscalResponse	

Returns**Type Description**[string](#)

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
SignDeviceDriver	

SignDeviceParameter

The device driver parameters.

Declaration

```
public virtual List<Parameter> SignDeviceParameter { get; set; }
```

Property Value

Type	Description
List<Parameter>	

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 an it's 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
List<ParameterInfo>	

SignDeviceDriver

The driver for this driver information.

Declaration

```
public SignDeviceDriver SignDeviceDriver { get; set; }
```

Property Value

Type	Description
SignDeviceDriver	

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleAustria(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string :
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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 = "U2ljaGVyaGVpdHNaW5yaWNoZHVuZyBhdXNnZWZhbGxlbG"
```

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
FiscalClientStatus	

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
bool	fonAccess	
FonServiceClient	fonClient	
ClientConfiguration	clientConfiguration	
ILogger	logger	
bool	isTest	
ProxyConfiguration	proxyConfiguration	

Returns

Type	Description
SignBase	

CancelDocument(Document)

Cancels the active document. Not necessary in austria.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

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

[FiscalResponse](#) 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
------	------	-------------

[string](#) depDocument The document to validate.

Returns

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

[bool](#) 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
------	-------------

[bool](#) 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
------	------	-------------

[ClientConfiguration](#) 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
------	------	-------------

[DocumentType](#) documentType The type of the to be created document.

Returns

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

[FiscalResponse](#) An empty fiscal response.

Overrides

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 RKS 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
FonServiceClient	fonClient	The fon client to connect (over retailforce portal).
string	uniqueCashRegisterId	The unique id of the cash register.
bool	expectedResponse	The expected response (for fon protocol).

Returns

Type	Description
BoolResponse	

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
List<string>	documentZips	A list of document zip files (file names).
FiscalClient	fiscalClient	
List<StoredDocument>	actualDayDocuments	
DateTime	fromDate	The start date of the requested receipts.
DateTime	tillDate	The end date of the requested receipts.
Func<string, (List<StoredDocument>, FiscalClient)>	getZipFile	A function to fetch the content of a single document zip file (to use on client and in cloud).
Stream	outputStream	The output stream to generate the

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>documentZips</code> is set to null.
ArgumentNullException	Thrown if parameter <code>outputStream</code> is set to null.
ArgumentException	Thrown if output stream is not marked with <code>CanWrite</code> = true.

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
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.

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
string	uniqueCashRegisterId	The unique cash register id for this cash register in austria. Use GetUniqueCashRegisterId() to obtain.
bool	isCancelled	True if the document for which the turnover counter should be calculated is a cancellation document CancellationDocument .
bool	isTraining	True if the document for which the turnover counter should be calculated is a training document IsTraining .

Type	Name	Description
string	documentNr	DocumentNr of the document for which the turnover counter should be calculated.
decimal	revenue	Turnover which should be encrypted.
string	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 si
```

Parameters

Type	Name	Description
string	lastLine	
ClientConfiguration	austrianConfiguration	
int	documentNr	
decimal	actualRevenue	
DateTimeOffset	bookDate	
string	signatureChainValue	
string	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
DateTime?	fromDate	The start date of the request. If omitted the start date is used as 1-1-2000.
DateTime?	tillDate	The end date of the request. If omitted the till date is used as now.

Returns

Type	Description
List<ReceiptLine>	A list of ReceiptLine 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
bool	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
List<SignatureDeviceActivated>	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
SignDeviceConfiguration	configuration	The configuration for the requested sign device driver.
ILogger	logger	Logger for logging purposes.
bool	isTestClient	True if client is a test client; otherwise false.

Type	Name	Description
ProxyConfiguration	proxyConfiguration	A possible proxy configuration.

Returns

Type	Description
SignBase	The sign device driver.

Exceptions

Type	Condition
ArgumentNullException	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
ArgumentNullException	Thrown if parameter <code>storeNumber</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>terminalNumber</code> 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
------	------	-------------

Type	Name	Description
ILogger	logger	The logger to log events.
Guid	clientId	The client id of the unique client to import the dep.
string	importDepFile	The file to import.
string	uniqueCashRegisterId	The unique cash register id for austria for this client.
DepStore	depStore	The dep store to import.
DepCloudStore	depCloudStore	The cloud dep store to import (if null cloud will not be imported).
string	aesKey	The aes key for the client. If set turnover counter will be checked.
DateTime?	startReceiptDateTime	The date and time of the start receipt. If not supplied, the first record is assumed as the start receipt.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>importDepFile</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>depStore</code> is set to null.
FileNotFoundException	Thrown if the import file given in <code>importDepFile</code> is not found.
InvalidDataException	Thrown if the unique cash register id of the file does not correspond to parameter <code>uniqueCashRegisterId</code> .
InvalidDataException	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
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, 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
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, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
NotSupportedException	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	<code>importFile</code>	The file to import for migration.
string	<code>param1</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param2</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param3</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param4</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param5</code>	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
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
NotSupportedException	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 recommissionDate)
```

Parameters

Type	Name	Description
DateTime	<code>recommissionDate</code>	The date and time of recommissioning.

Returns

Type	Description
bool	True if was successful (or cash register is already activated); otherwise false.

RecommissioningSecurityCertificate(DateTime, long?)

Recommissioning a security certificate at fön (Finanzonline). You have to be authenticated.

Declaration

```
public bool RecommissioningSecurityCertificate(DateTime recommissionDate, long? certificateSerial = null)
```

Parameters

Type	Name	Description
DateTime	<code>recommissionDate</code>	The date and time of recommissioning.
long?	<code>certificateSerial</code>	The certificate serial as long which is searched. If only one security device is configured this is returned.

Returns

Type	Description
bool	True if was successful (or cash register is already activated); otherwise false.

Exceptions

Type	Condition
ArgumentException	Thrown if more than one signature device is configured and parameter <code>certificateSerial</code> is set to null.
KeyNotFoundException	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
bool	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
long?	<code>certificateSerial</code>	The certificate serial as long which is searched. If only one security device is configured this is returned.

Returns

Type	Description
bool	True if the register process finished successfully; otherwise false.

Exceptions

Type	Condition
ArgumentException	Thrown if more than one signature device is configured and parameter <code>certificateSerial</code> is set to null.
KeyNotFoundException	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
FonServiceClient	<code>fonClient</code>	The fon client to connect (over retailforce portal).
string	<code>uniqueCashRegisterId</code>	The unique id of the cash register.
string	<code>aesKey</code>	The generated aes key for this cash register.

Returns

Type	Description
ResultResponse	

StoreDocument(Document)

Stores a document to the austrian fiscal system.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	The fiscal response from the fiscal system.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.StoreDocument\(Document\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>document</code> is set to null.
ArgumentException	Thrown if fiscal client of document (FiscalClient) is not set or if fiscal client id does not match client id of document or if client configuration 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
SecurityCertificateDropoutReason	reason	The drop out reason for unregistering the signature device at fon.
long?	certificateSerial	The certificate serial as long which is searched. If only one security device is configured this is returned.

Returns

Type	Description
bool	True if the register process finished successfully; otherwise false.

Exceptions

Type	Condition
ArgumentException	Thrown if more than one signature device is configured and parameter <code>certificateSerial</code> is set to null.
KeyNotFoundException	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
CashRegisterDropoutReason?	reason	The reason for unregistering; if omitted default value is PlannedDropout .
DateTime?	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
------	------	-------------

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

Document	document	
--------------------------	----------	--

bool	reprintDocument	
----------------------	-----------------	--

Returns

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

List<DocumentValidationError>	
---	--

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, AustrianFiscalisationRequiredAttribute, AustrianFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

Namespace RetailForce.Fiscalisation.Implementation.Austria.Dep

Classes

[BlobDepStore](#)

Blob dep store to read dep data from blob (using memory stream in between).

[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")

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
Stream	stream	The blob stream (read) for read operations. Will be copied to memory stream.

Exceptions

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

Type	Condition
ArgumentNullException	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
string	storeNumber	The store number for the matching algorithm.
string	terminalNumber	The terminal number for the matching algorithm.

Returns

Type	Description
char?	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
ReceiptLine	The last line of the dep.

Exceptions

Type	Condition
ArgumentNullException	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
ArgumentNullException	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
ReceiptLine	The last receipt line of the dep.

Exceptions

Type	Condition
ArgumentNullException	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
decimal	<code>turnoverCounter</code>	The turnover counter for the read line.

Returns

Type	Description
ReceiptLine	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 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
ReceiptLine[]	receiptLines	The receipt groups for the dep ('Datenerfassungsprotokoll').
string	signatureCertificate	The signature certificate. Can be omitted.
string[]	certificateOrdinaries	A string array of certificate issuers. Can be omitted.

Exceptions

Type	Condition
ArgumentNullException	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
ReceiptGroup[]	

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
ILogger	logger	
string	accessKey	
string	accessSecret	
CloudService	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
Guid	uniqueClientId	The uniqueClientId of the dep to store.
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 receipt flag for the dep line.

Exceptions

Type	Condition
ArgumentException	Thrown if the given receipt line was not signed (Signature not set).
ArgumentNullException	Thrown if <code>receiptLine</code> is set to null or <code>uniqueClientId</code> is set to Empty .

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

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
```

Constructors

DepStore(string, string)

Constructor.

Declaration

```
public DepStore(string path, string filename = "")
```

Parameters

Type	Name	Description
string	path	The path to the directory where the dep is stored.

string	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
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 files exist; 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	The client id of the requested dep.
----------------------	----------	-------------------------------------

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
------	------	-------------

[Guid](#) `clientId` The client for which the dep store path is requested.

Returns

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

[string](#) A string representing the dep store path of the requested client.

Exceptions

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

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

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
------	------	-------------

[Guid](#) `clientId` The client id of the requested receipt lines.

[DateTime](#) `fromDate` The start date of the request.

[DateTime](#) `tillDate` The end date of the request.

Returns

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

[List<ReceiptLine>](#) A list of [ReceiptLine](#) 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
------	------	-------------

[Guid](#) `clientId` The unique client id of the client to check the dep store.

Returns

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

[bool](#) True if the dep store is empty (no record); otherwise false.

ReadFirstLine(Guid)

Declaration

```
public string ReadFirstLine(Guid clientId)
```

Parameters

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

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)**Declaration**

```
public ReceiptLine ReadFirstUnsignedReceiptLine(Guid clientId)
```

Parameters**Type Name Description**

[Guid](#) clientId

Returns**Type Description**

[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**

Type	Name	Description
Guid	clientId	
decimal	actualRevenueSum	

Returns

Type	Description
ReceiptLine	

ReadLastSignedReceiptline(Guid)

Returns the last valid signed receipt line of the dep.

Declaration

```
public ReceiptLine ReadLastSignedReceiptline(Guid clientId)
```

Parameters

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

Guid	clientId	The client id of the dep to read.
----------------------	----------	-----------------------------------

Returns

Type	Description
ReceiptLine	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
------	------	-------------

Guid	clientId	The client where the receipt lines are requested.
----------------------	----------	---

Returns

Type	Description
List<ReceiptLine>	A list of ReceiptLine objects representing the receipt lines of the actual dep of the given client.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .

ReadReceiptLines(string)

Returns all receipt lines of the given file.

Declaration

```
public List<ReceiptLine> ReadReceiptLines(string filename)
```

Parameters

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

string	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, Action<string, int>, Action, Action<int>)

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, ReceiptLine, decimal, string)

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 The clientid of the dep to store.

[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 <code>receiptLine</code> is set to null or <code>clientId</code> is set to Empty .

StoreReceiptLine(Guid, string)

Declaration

```
public void StoreReceiptLine(Guid clientId, string retailforceDepLine)
```

Parameters

Type	Name	Description
Guid	<code>clientId</code>	
string	<code>retailforceDepLine</code>	

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
string	depLine	The retailforce dep line to parse.
decimal	turnOverCounter	Out parameter. The turnover counter.
string	receiptFlag	Out parameter. The receipt flag.

Returns

Type	Description
string	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
ArgumentNullException	Thrown if parameter <code>depLine</code> is set to null or Empty .
FormatException	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
Stream	depStoreStream	The stream to read.
string	storeNumber	The store number for the matching algorithm.
string	terminalNumber	The terminal number for the matching algorithm.

Returns

Type	Description
char?	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
Stream	depStoreStream	The stream to read.

Returns

Type	Description
ReceiptLine	The last line of the dep.

Exceptions

Type	Condition
ArgumentNullException	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
Stream	depStoreStream	The stream to read.

Returns

Type	Description
ReceiptLine	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
------	-------------

List<ReceiptLine>	All receipt lines from the given dep store stream.
---	--

Exceptions

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

ArgumentNullException	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
------	------	-------------

Stream	<code>depStoreStream</code>	The dep stream to store the receipt line.
------------------------	-----------------------------	---

ReceiptLine	<code>receiptLine</code>	The receipt line to store.
-----------------------------	--------------------------	----------------------------

decimal	<code>turnoverCounterValue</code>	The value of the turnover counter for this receipt line.
-------------------------	-----------------------------------	--

string	<code>receiptFlag</code>	
------------------------	--------------------------	--

Exceptions

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

ArgumentNullException	Thrown if parameter <code>depStoreStream</code> is set to null.
---------------------------------------	---

ArgumentNullException	Thrown if parameter <code>receiptFlag</code> is set to null.
---------------------------------------	--

InvalidOperationException	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
------	------	-------------

Stream	<code>depStoreStream</code>	The dep stream to store the receipt line.
------------------------	-----------------------------	---

string	<code>retailForceDepLine</code>	The dep line to store (retailforce format).
------------------------	---------------------------------	---

Exceptions

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

ArgumentNullException	Thrown if parameter <code>depStoreStream</code> is set to null.
---------------------------------------	---

ArgumentNullException	Thrown if parameter <code>retailForceDepLine</code> is set to null or Empty .
---------------------------------------	---

InvalidOperationException	Thrown if stream is not writable.
---	-----------------------------------

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
ReceiptLine []	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
SecurityCertificateIssuer	certificateIssuer	
string	cashRegisterUniqueId	
int	fiscalDocumentNr	
DateTimeOffset	bookDate	
decimal	revenueNormalVat	
decimal	revenueReducedVat1	
decimal	revenueReducedVat2	
decimal	revenueNoVat	
decimal	revenueSpecialVat	
string	revenueEncrypted	
string	certificate	
string	previousSignature	

ReceiptLine(string)

Constructor.

Declaration

```
public ReceiptLine(string retailForceDepLine)
```

Parameters

Type	Name	Description
string	retailForceDepLine	Dep line in rf format (including attached turnOverCounter and receiptLineFlag)

ReceiptLine(string, int, DateTimeOffset, decimal, 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
string	cashRegisterUniqueId	
int	fiscalDocumentNr	
DateTimeOffset	bookDate	
decimal	revenueNormalVat	
decimal	revenueReducedVat1	
decimal	revenueReducedVat2	
decimal	revenueNoVat	
decimal	revenueSpecialVat	
string	revenueEncrypted	
string	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
string	cashRegisterUniqueIid	
int	fiscalDocumentNr	
DateTimeOffset	bookDate	
string	revenueEncrypted	
string	previousSignature	

ReceiptLine(string, string, bool)

Declaration

```
public ReceiptLine(string depLine, string receiptFlag, bool ownReceiptNr = true)
```

Parameters

Type	Name	Description
string	depLine	The whole dep line (not the rf dep line format including turnover counter and receiptline flag).
string	receiptFlag	
bool	ownReceiptNr	

Properties

BookDate

Returns the book date of the last receipt line.

Declaration

```
public DateTime BookDate { get; }
```

Property Value

Type	Description
DateTime	

CashRegisterId

Returns the cash register id for this receipt line.

Declaration

```
public string CashRegisterId { get; }
```

Property Value

Type	Description
string	

Certificate

The certificate serial as serial hex value (string).

Declaration

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

Property Value

Type	Description
string	

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
string	

FiscalDocumentNr

Returns the fiscal document nr of the receipt line.

Declaration

```
public int FiscalDocumentNr { get; }
```

Property Value

Type	Description
int	

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
ReceiptLine	other	The other ReceiptLine .

Returns

Type	Description
bool	True if the other ReceiptLine equals this ReceiptLine ; otherwise false.

Equals(object)

Returns whether the other [ReceiptLine](#) equals this one.

Declaration

```
public override bool Equals(object obj)
```

Parameters

Type	Name	Description
object	obj	The other ReceiptLine .

Returns

Type	Description
bool	True if the other ReceiptLine equals this ReceiptLine ; 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
string	valueToChain	The value to hash.

Returns

Type	Description
string	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
int	fiscalDocumentNr	

Returns

Type	Description
string	

GetFiscalDocumentNrFromString(string)

Declaration

```
public static int GetFiscalDocumentNrFromString(string fiscalDocumentNrString)
```

Parameters

Type	Name	Description
string	fiscalDocumentNrString	

Returns

Type	Description
int	

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
string	revenueEncrypted	The encrypted and base64 encoded revenue.
string	aesKey	A string representing the aes key for decryption.
string	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
decimal	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
string	aesKey	A string representing the aes key for decryption.
string	message	A string representing the message ("TRA" for Training, "STO" vor voided documents) of the revenue sum calculation.

Returns

Type	Description
decimal	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
string	depLineString	The string to match.
string	receiptLine	The receipt line (converted from base64 to clear text).
string	signature	The signature of this receiptline.

Returns

Type	Description
bool	True if the match was successful; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>depLineString</code> is set to null or Empty .

ToJwsPayload()

Returns the jws payload for signing of the receipt string.

Declaration

```
public string ToJwsPayload()
```

Returns

Type	Description
string	

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
byte[]	data	A byte array representing the encrypted revenue.
string	cashRegisterId	The identification of the cash register.
string	receiptNumber	The receipt number of the current receipt.
byte[]	aesKey	The aes key for this cash register.

Returns

Type	Description
long	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
string	data	A string representing the encrypted revenue a base64 encoded string.
string	cashRegisterId	The identification of the cash register.
string	receiptNumber	The receipt number of the current receipt.
byte[]	aesKey	The aes key for this cash register.

Returns

Type	Description
long	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
long	revenue	The revenue in euro cents (23.45 EUR = 2345).
string	cashRegisterId	The identification of the cash register.
string	receiptNumber	The receipt number of the current receipt.
byte[]	aesKey	The aes key for this cash register.

Returns

Type	Description
byte[]	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
long	revenue	The revenue in euro cents (23.45 EUR = 2345).
string	cashRegisterId	The identification of the cash register.
string	receiptNumber	The receipt number of the current receipt.
byte[]	aesKey	The aes key for this cash register.

Returns

Type	Description
string	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
string	base64Key	The string representing the aes key in base64 representation.

Returns

Type	Description
byte[]	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
string	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
------	-------------

byte []	The key as byte array.
-------------------------	------------------------

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
Guid	uniqueClientId	The clientId of the connection.
CloudConnector	cloudConnector	The connector to the retailforce cloud system.
string	cloudApiKey	The api key to access the retailforce cloud system. Optional, only needed if fon access is wanted.
string	cloudApiSecret	The api secret to access the retailforce cloud system. Optional, only needed if fon access is wanted.
bool	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
string	depDocument	Qr Code of the document to check.

Returns

Type	Description
BoolResponse	True if validation was successful; otherwise false. Also message from service (if applicable) is returned

Exceptions

Type	Condition
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
BoolResponse	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
string	cashRegisterId	The client for which the request is done.
bool	expectedResponse	A bool representing the expected response for this call.

Returns

Type	Description
BoolResponse	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
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
long	securityCertificate	The certificate id of the security certificate to check.
bool	expectedResponse	A bool representing the expected response for this call.

Returns

Type	Description
BoolResponse	True if the given security certificate is activated (IN_BETRIEB) at fon (Finanzonline). You have to be authenticated.

Exceptions

Type	Condition
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
string	cashRegisterId	A string representing the unique cash register id.
DateTime	recommissionDate	The date and time of recommissioning.
DateTime?	requestDateTime	The datetime of the request.

Returns

Type	Description
ResultResponse	The result code according to fon documentation.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter cashRegisterId is set to null or empty string.
SecurityException	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
long	securityCertificate	The certificate to register.
DateTime	recommissionDate	The date and time of recommissioning.
DateTime?	requestDateTime	The datetime of the request.

Returns

Type	Description
ResultResponse	The result code according to fon documentation.

Exceptions

Type	Condition
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
string	cashRegisterId	A string representing the unique cashregister id.
string	aesKey	A string representing the base 64 encoded aes key security key of the cash register.
DateTime?	requestDateTime	The datetime of the request.

Returns

Type	Description
ResultResponse	The result code and message according to fon documentation.

Exceptions

Type	Condition
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
long	securityCertificate	The certificate to register.
SecurityCertificateType	certificateType	The type of the certificate.
SecurityCertificateIssuer	issuer	The issuer of the certificate.
DateTime?	requestDateTime	The datetime of the request.

Returns

Type	Description
ResultResponse	The result code and message according to fon documentation.

Exceptions

Type	Condition
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
string	terminalNumber	The terminal number.
string	storeNumber	The store number.
string	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
string	cashRegisterId	The client for which the request is done.
CashRegisterDropoutReason	reason	Reason for cash register dropout. Attention: just permanent dropout reasons are allowed.
DateTime?	fromDate	The date of the dropout, has to be set at reason = [1] Stolen, [5] NotWorking, [99]= Others. Default is DateTime.Now.
DateTime?	requestDateTime	The datetime of the request.

Returns

Type	Description
ResultResponse	The result code and message according to fon documentation.

Exceptions

Type	Condition
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
long	securityCertificate	The certificate to unregister.
SecurityCertificateDropoutReason	reason	The reason of the dropout.
DateTime?	fromDate	The date of the dropout, has to be set at reason = [1] Stolen, [2] NotWorking, [99]= Others.
DateTime?	requestDateTime	The datetime of the request.

Returns

Type	Description
ResultResponse	The result code and message according to fon documentation.

Exceptions

Type	Condition
LicenseException	Thrown if given client has not fon connection license.
SecurityException	Thrown if nobody is authenticated to the service.
ArgumentNullException	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
ILogger	logger	The logger to log.
string	serviceUrl	The service url of the other fiscal system.
string	registerTenant	The tenant for efr register (if used).

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>logger</code> is set to null.
ArgumentNullException	Thrown if <code>serviceUrl</code> is set to null or Empty .

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
------	-------------

DateTime?	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
------	------	-------------

string	depReportEfsta	
------------------------	----------------	--

ILogger	logger	
-------------------------	--------	--

Returns

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

DateTime?	
---------------------------	--

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
------	------	-------------

long	certificateSerial	
----------------------	-------------------	--

bool	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
ILogger	logger	The logger for the sign device.
string	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
ArgumentNullException	Thrown if <code>baseUrl</code> is set to null or empty string or parameter <code>logger</code> is set to null.
ArgumentException	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
HttpWebRequest	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
UriTypeRequest	requestType	The request type for the uri to create.

Returns

Type	Description
Uri	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
UriTypeRequest	requestType	The type of the request.

Returns

Type	Description
HttpWebRequest	A HttpWebRequest 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
UriTypeRequest	requestType	The requested request type.

Returns

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

string	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
------	------	-------------

HttpWebRequest	webRequest	The webrequest object to request the response.
--------------------------------	------------	--

bool	throwException	True if exception should be thrown in case of an error.
----------------------	----------------	---

Returns

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

string	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
------	------	-------------

HttpWebRequest	webRequest	The webrequest object to request the response.
--------------------------------	------------	--

bool	throwException	True if exception should be thrown in case of an error.
----------------------	----------------	---

Returns

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

<code>TType</code>	An object of type <code>TType</code> 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
HttpWebRequest	webRequest	The request to set the body for.
string	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
string	url	The url to check.

Returns

Type	Description
bool	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
X509Certificate2	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
------	------	-------------

byte[]	signature	
------------------------	-----------	--

byte[]	signedData	
------------------------	------------	--

Returns

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

bool	
----------------------	--

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
ILogger	logger	The logger for the sign device.

Exceptions

Type	Condition
ArgumentNullException	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
bool	throwException	

Returns

Type	Description
Certificate	The certificate of the signature unit.

GetCertificateAuthority()

Gets the certificate issuer from the signature unit.

Declaration

```
public abstract SecurityCertificateIssuer GetCertificateAuthority()
```

Returns

Type	Description
SecurityCertificateIssuer	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
string	certificateIssuer	A string representing the issuer string to convert.

Returns

Type	Description
SecurityCertificateIssuer	A SecurityCertificateIssuer object representing the converted issuer.

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>certificateIssuer</code> is set to null or empty string.

Type**Condition**

[NotImplementedException](#) 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
------	------	-------------

SecurityCertificateIssuer	issuer	The certificate issuer to convert.
---	--------	------------------------------------

Returns

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

string	A string representing the certificate issuer string for signing and the receipt line of austrian dep ("Datenerfassungsprotokoll").
------------------------	--

Exceptions**Type****Condition**

[NotImplementedException](#) 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
------	------	-------------

SignDeviceDriver	driver	The driver to get the certificate type.
----------------------------------	--------	---

Returns

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

SecurityCertificateType	The security certificate type for the given sign device driver.
---	---

Exceptions**Type****Condition**

[NotImplementedException](#) 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
------	-------------

List<SignDeviceDriverInfo>	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
------	------	-------------

SignDeviceDriver	driver	The driver where the info is requested.
----------------------------------	--------	---

Returns

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

SignDeviceDriverInfo	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
------	------	-------------

ReceiptLine	receiptLine	The receipt line to sign.
-----------------------------	-------------	---------------------------

Returns

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

string	The signature for the given receipt line (base64 url encoded).
------------------------	--

Exceptions

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

ArgumentNullException	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
ReceiptLine	receipt	The receipt line to sign.

Returns

Type	Description
string	The signature for the receipt line.

Exceptions

Type	Condition
ArgumentNullException	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
string	jws	The jws token with format <code>header.data.signature</code> .

Returns

Type	Description
string	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
ILogger	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
ILogger	logger	The logger for the sign device.
string	username	The username for authentication.
string	password	The password for authentication.

Type	Name	Description
string	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
HttpWebRequest	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
ReceiptLine	receiptLine	The receiptline to sign.

Returns

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

[string](#) 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
UriTypeRequest	requestType	The request type for the uri to create.

Returns

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

[Uri](#) The uri for the request.

Overrides

[ATrustHsmLocal.CreateUri\(UriTypeRequest\)](#)

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
ILogger	logger	The logger for the sign device.
string	baseUrl	The base url for hsm signing. Must not be null or empty string.
string	keyLabel	The key label for the specific signature unit.
string	username	The username for authentication to the hsm.
string	password	The password for authentication to the hsm.

ProxyConfiguration proxyConfiguration Possible proxy configuration. Can be null.

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>baseUrl</code> , <code>keyLabel</code> , <code>username</code> or <code>password</code> is set to null or empty string or parameter <code>logger</code> is set to null.
ArgumentException	Thrown if <code>baseUrl</code> 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
SecurityCertificateType	

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
SignDeviceState	

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
HttpWebRequest	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
ReceiptLine	receiptLine	The receiptline to sign.

Returns

Type	Description
string	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
UriTypeRequest	requestType	The request type for the uri to create.

Returns

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	True if exception should be thrown in case of an error.

Returns

Type	Description
Certificate	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
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 requestType)
```

Parameters

Type	Name	Description
UriTypeRequest	requestType	The requested request type.

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
ReceiptLine	receipt	The receipt line to sign.

Returns

Type	Description
string	The signature for the receipt line.

Overrides

[SignBase.SignExecute\(ReceiptLine\)](#)

Exceptions

Type	Condition
ArgumentNullException	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
ILogger	logger	The logger for this class.
string	baseUrl	The base url of the hsm.
string	keyId	The key which is used to fetch certificate and for signature.
string	username	The username for authorization.
string	password	The password for authorization.

ProxyConfiguration proxyConfiguration Possible proxy configuration. Can be null.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>username</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>password</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>keyId</code> is set to null or Empty .

Properties

CertificateType

Returns the type of the certificate of this driver.

Declaration

```
public override SecurityCertificateType CertificateType { get; }
```

Property Value

Type	Description
SecurityCertificateType	

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
SignDeviceState	

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
HttpWebRequest	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
UriTypeRequest	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
------	------	-------------

ReceiptLine	receipt	The receipt line to sign.
-----------------------------	---------	---------------------------

Returns

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

string	The signature for the receipt line.
------------------------	-------------------------------------

Overrides

[SignBase.SignExecute\(ReceiptLine\)](#)

Exceptions

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

ArgumentNullException	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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.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<BulgarianFiscalisationRequiredAttribute>.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<BulgarianFiscalisationRequiredAttribute>.SurchargesPossible](#)

TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

Type	Description
Vat	

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.TaxFreeVat](#)

TaxGroupMapping

The tax group mapping

Declaration

```
public override Dictionary<int, int> TaxGroupMapping { get; }
```

Property Value

Type	Description
Dictionary<int, int>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<BulgarianFiscalisationRequiredAttribute>.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<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
Dictionary<ReturnReasonType, int>	

SupportedPaymentsMapping

Declaration

```
public static ReadOnlyDictionary<PaymentType, int> SupportedPaymentsMapping
```

Field Value

Type	Description
ReadOnlyDictionary<PaymentType, int>	

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

Type	Description
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Document validation for bulgaria.

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	The document to validate.

Returns

Type	Description
List<DocumentValidationError>	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
FiscalCountry	

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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	usermessage	The message which must be shown to the user of the cash register system. Optional parameter, empty if everything went well.
string	printerSerial	The serial number of the printer.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
FiscalResponse	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\(\)](#)
[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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, IFiscalModuleImplementation
```

Constructors

TrustedFiscalModuleBulgaria(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleBulgaria(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Properties

[FiscalClientStatus](#)

Returns the status of the fiscal client.

Declaration

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

Property Value

Type	Description
FiscalClientStatus	

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
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
FiscalResponse	An object of type FiscalResponse representing an empty country specific FiscalResponse .

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
string	signature	The return value of the printer if everything goes well.

Type	Name	Description
List<DocumentTaxPosition>	taxPositions	The tax positions of the document.

[string](#) userMessage The error message of the printer.

Returns

Type	Description
FiscalResponse	The country specific FiscalResponse 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
PaymentType	paymentType	The PaymentType to map.

Returns

Type	Description
int	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
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, 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
Document	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
Document	document	The document to validate.
bool	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

Returns

Type	Description
List<DocumentValidationError>	

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
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
IFiscalImplementationConfiguration	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 <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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<CroatianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific)
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	protectiveMark	The protective mark of the response.

Returns

Type	Description
FiscalResponse	A FiscalResponse object representing the fiscal response for croatia.

ProtectiveMark(FiscalResponse)

Declaration

```
public static string ProtectiveMark(this FiscalResponse fiscalResponse)
```

Parameters

Type	Name	Description
FiscalResponse	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\(string, string, string, string, string\)](#)
[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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleCroatia(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string :
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Properties

FiscalClientStatus

Returns the status of the fiscal client.

Declaration

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

Property Value

Type	Description
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
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, 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
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, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.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, 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
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, 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
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, CroatianFiscalisationRequiredAttribute, CroatiaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .

[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
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .

[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
List<DocumentValidationError>	

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
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
IFiscalImplementationConfiguration	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 <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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<DenmarkFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
------	------	-------------

FiscalClient	client	
------------------------------	--------	--

Returns

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

List<ValidationError>	
---	--

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
Dictionary<LogEntryType, string>	

LineTypeMapping

Declaration

```
public static Dictionary<int, (DocumentPositionType, BusinessTransactionType?)> LineTypeMapping
```

Field Value

Type	Description
Dictionary<int, (DocumentPositionType, BusinessTransactionType?)>	

PaymentTypeMapping

Declaration

```
public static Dictionary<PaymentType, string> PaymentTypeMapping
```

Field Value

Type	Description
Dictionary<PaymentType, string>	

StandardVatCodeDictionary

Standard-vat code dictionary for saf-t export.

Declaration

```
public static readonly ReadOnlyDictionary<int, int> StandardVatCodeDictionary
```

Field Value

Type	Description
ReadOnlyDictionary<int, int>	

Remarks

Key = VatIdentification Value = Standard-Vat Code Denmark SAF-T

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

Type	Description
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	keyVersion	The key version of the signature.
string	signedData	The signed data string.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
FiscalResponse	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
FiscalResponse	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
List<TElement>	list	
TElement	newElement	
Func<TElement, object>	keyPredicate	
Action<TElement, TElement>	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
string	userId	
FiscalClient	fiscalClient	
string	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
HashSet<string>	transactionCodes	
Dictionary<string, string>	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
Document	document	
FiscalResponse	fiscalResponse	
Dictionary<string, string>	itemGroupDictionary	
List<auditfileCompanyPeriodsPeriod>	periods	
string	certificatePem	

Returns

Type	Description
auditfileCompanyLocationCashregisterCashttransaction	

GetCountryCode(FiscalCountry)

Returns the [Countrycode](#) from the [FiscalCountry](#).

Declaration

```
public static Countrycode GetCountryCode(FiscalCountry fiscalCountry)
```

Parameters

Type	Name	Description
FiscalCountry	fiscalCountry	The fiscal country to match.

Returns

Type	Description
Countrycode	The Countrycode from the FiscalCountry .

GetCurrencyCode(string)

Returns the [Currencycode](#) from string.

Declaration

```
public static Currencycode GetCurrencyCode(string currencyIsoCode)
```

Parameters

Type	Name	Description
string	currencyIsoCode	A string which should be parsed to a Currencycode .

Returns

Type	Description
Currencycode	The Currencycode from string.

Exceptions

Type	Condition
NotSupportedException	Thrown if the given string cannot be converted to a Currencycode .

GetDebitCreditCode(DocumentType)

Declaration

```
public static Debitcredittype GetDebitCreditCode(DocumentType documentType)
```

Parameters

Type	Name	Description
DocumentType	documentType	

Returns

Type	Description
Debitcredittype	

GetRounding(Document)

Declaration

```
public static auditfileCompanyLocationCashregisterCashtransactionRounding GetRounding(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
auditfileCompanyLocationCashregisterCashtransactionRounding	

GetTransactionCode(DocumentType, int, int, bool)

Declaration

```
public static string GetTransactionCode(DocumentType documentType, int posCount = 0, int returnPosCount = 0, bool creditSale = false)
```

Parameters

Type	Name	Description
DocumentType	documentType	
int	posCount	
int	returnPosCount	
bool	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
Address	address	The address to map.

Returns

Type	Description
TAddress[]	An object implementing ISaftAddress representing the mapped address.

Type Parameters

Name	Description
TAddress	An object implementing ISaftAddress .

MapPositions(Document, Dictionary<string, string>)

Declaration

```
public static auditfileCompanyLocationCashregisterCashtransactionCtLine[] MapPositions(Document document, Dictionary<string, string> itemGroupDictionary)
```

Parameters

Type	Name	Description
Document	document	
Dictionary<string, string>	itemGroupDictionary	

Returns

Type	Description
auditfileCompanyLocationCashregisterCashtransactionCtLine[]	

MapVatPosition(DocumentPositionVatPosition)

Declaration

```
public static auditfileCompanyLocationCashregisterCashtransactionCtLineVat MapVatPosition(DocumentPositionVatPosition position)
```

Parameters

Type	Name	Description
DocumentPositionVatPosition	position	

Returns

Type	Description
auditfileCompanyLocationCashregisterCashtransactionCtLineVat	

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
AuditLogEntry	auditLogEntry	The AuditLogEntry to add.

Exceptions

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

ArgumentNullException	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
------	------	-------------

StoredDocument	<code>storedDocument</code>	The document (including FiscalResponse) to add.
--------------------------------	-----------------------------	---

Exceptions

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

ArgumentNullException	Thrown if parameter <code>storedDocument</code> is set to null.
---------------------------------------	---

ArgumentException	Thrown if property Document 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
------	------	-------------

string	<code>countryCodeAlpha3</code>	
------------------------	--------------------------------	--

Countrycode?	<code>countryCode</code>	
------------------------------	--------------------------	--

Returns

Type Description

bool	
----------------------	--

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\(ReceiptMeta, Stream\)](#)
[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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, IFisci
```

Constructors

TrustedFiscalModuleDenmark(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleDenmark(FiscalClient fiscalClient, ILogger logger, Action<IFiscalImplementationConfiguration> storeImplementationConfiguration, FiscalModuleEnvironment e
```

Parameters

Type	Name	Description
FiscalClient	fiscalClient	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeImplementationConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.FiscalClientStatus](#)

Methods

CancelDocument(Document)

Cancels a document on the fiscal interface.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
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, 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
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, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.DecommissionClient\(Document\)](#)

ExportSaft(Stream, string, DateTime, DateTime, bool)

Exports denmark saft-t format to the given stream (signed with oces certificate).

Declaration

```
public void ExportSaft(Stream outputStream, string userId, DateTime fromDate, DateTime tillDate, bool plainXml = false)
```

Parameters

Type	Name	Description
Stream	outputStream	The stream to write the saft export.
string	userId	The id of the user exporting the data.
DateTime	fromDate	Date from the export should be started.
DateTime	tillDate	Date till the export should be started.
bool	plainXml	Set to true to export only xml without signing (test purposes).

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>outputStream</code> is set to null.
ArgumentNullException	Thrown if parameter <code>userId</code> is set to null or Empty .

ExportSaft(string, DateTime, DateTime)

Exports denmark saft-t format to [auditfile](#) object.

Declaration

```
public auditfile ExportSaft(string userId, DateTime fromDate, DateTime tillDate)
```

Parameters

Type	Name	Description
string	userId	The id of the user exporting the data.
DateTime	fromDate	Date from the export should be started.
DateTime	tillDate	Date till the export should be started.

Returns

Type	Description
auditfile	An auditfile object representing the denmark saft-t 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
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
NotSupportedException	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	<code>importFile</code>	The file to import for migration.
string	<code>param1</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param2</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param3</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<code>param4</code>	Parameter1 for migration options. Please refer to migration documentation to get information about migration parameter.
string	<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
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
NotSupportedException	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	<code>document</code>	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
------	------	-------------

Document	document	
--------------------------	----------	--

bool	reprintDocument	
----------------------	-----------------	--

Returns

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

List<DocumentValidationError>	
---	--

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, DenmarkFiscalisationRequiredAttribute, DenmarkFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

Implements

[IFiscalModuleImplementation](#)

[IDocumentInterface](#)

[IDisposable](#)

Namespace RetailForce.Fiscalisation.Implementation.Denmark.Model

Classes

[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](#)

[Debiteredittype](#)

[Reporttypestring](#)

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

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

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	

Enum Debitcredittype

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[Serializable]  
public enum Debitcredittype
```

Fields

Name	Description
------	-------------

C	
---	--

D	
---	--

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 Reporttypestring

Namespace: [RetailForce.Fiscalisation.Implementation.Denmark.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[Serializable]  
public enum Reporttypestring
```

Fields

Name	Description
------	-------------

Xreport	
---------	--

Zreport	
---------	--

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](#)

company

Declaration

```
public auditfileCompany company { get; set; }
```

Property Value

Type	Description
auditfileCompany	

header

Declaration

```
public auditfileHeader header { get; set; }
```

Property Value

Type	Description
auditfileHeader	

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
auditfileCompanyArticle[]	

basics

Declaration

```
public auditfileCompanyBasic[] basics { get; set; }
```

Property Value

Type	Description
auditfileCompanyBasic[]	

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
auditfileCompanyPostalAddress[]	

streetAddress

Declaration

```
public auditfileCompanyStreetAddress[] streetAddress { get; set; }
```

Property Value

Type	Description
auditfileCompanyStreetAddress[]	

taxRegIdent

Declaration

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

Property Value

Type Description

[string](#)

taxRegistrationCountry

Declaration

```
public Countrycode taxRegistrationCountry { get; set; }
```

Property Value

Type	Description
Countrycode	

vatCodeDetails

Declaration

```
public auditfileCompanyVatCodeDetail[] vatCodeDetails { get; set; }
```

Property Value

Type	Description
auditfileCompanyVatCodeDetail[]	

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
Countrycode	

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
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](#)

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
------	-------------

DateTime	
--------------------------	--

empID

Declaration

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

Property Value

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

string	
------------------------	--

employeeRole

Declaration

```
public auditfileCompanyEmployeesEmployeeEmployeeRole[] employeeRole { get; set; }
```

Property Value

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

auditfileCompanyEmployeesEmployeeEmployeeRole[]	
---	--

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
auditfileCompanyLocationCashregister[]	

name

Declaration

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

Property Value

Type Description

[string](#)

streetAddress

Declaration

```
public auditfileCompanyLocationStreetAddress[] streetAddress { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationStreetAddress[]	

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
auditfileCompanyLocationCashregisterCashtransaction[]	

event

Declaration

```
public auditfileCompanyLocationCashregisterEvent[] @event { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEvent[]	

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
------	-------------

Debitcredittype	
---------------------------------	--

bookDate

Declaration

```
public DateTime bookDate { get; set; }
```

Property Value

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

DateTime	
--------------------------	--

bookDateSpecified

Declaration

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

Property Value

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

bool	
----------------------	--

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
auditfileCompanyLocationCashregisterCashtransactionDiscount[]	

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
auditfileCompanyLocationCashregisterCashtransactionVat[]	

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 Debitcredittyp amntTp { get; set; }
```

Property Value

Type	Description
Debitcredittyp	

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
<u>auditfileCompanyLocationCashregisterCashtransactionCtLineSavings[]</u>	

vat

Declaration

```
public auditfileCompanyLocationCashregisterCashtransactionCtLineVat vat { get; set; }
```

Property Value

Type	Description
<u>auditfileCompanyLocationCashregisterCashtransactionCtLineVat</u>	

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 Debitcredittyp vatAmntTp { get; set; }
```

Property Value

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

[Debitcredittyp](#)

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
------	-------------

auditfileCompanyLocationCashregisterEventEventReport	
--	--

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
auditfileCompanyLocationCashregisterEventEventReportReportArtGroup[]	

reportCashSalesVat

Declaration


```
public auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat[] reportCashSalesVat { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportCashSaleVat[]	

reportCorrLines

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCorrLine[] reportCorrLines { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportCorrLine[]	

reportCreditMemos

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos reportCreditMemos { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportCreditMemos	

reportCreditSales

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportCreditSales reportCreditSales { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportCreditSales	

reportDate

Declaration

```
public DateTime reportDate { get; set; }
```

Property Value

Type	Description
DateTime	

reportDiscountAmnt

Declaration

```
public decimal reportDiscountAmnt { get; set; }
```

Property Value

Type	Description
decimal	

reportDiscountNum

Declaration

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

Property Value

Type	Description
string	

reportEmpArtGroups

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup[] reportEmpArtGroups { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportEmpArtGroup[]	

reportEmpOpeningChangeFloats

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat[] reportEmpOpeningChangeFloats { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportEmpOpeningChangeFloat[]	

reportEmpPayments

Declaration

```
public auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment[] reportEmpPayments { get; set; }
```

Property Value

Type	Description
auditfileCompanyLocationCashregisterEventEventReportReportEmpPayment[]	

reportGrandTotalReturn

Declaration

```
public decimal reportGrandTotalReturn { get; set; }
```

Property Value

Type	Description
decimal	

reportGrandTotalSales

Declaration

```
public decimal reportGrandTotalSales { get; set; }
```

Property Value

Type	Description
decimal	

reportGrandTotalSalesNet

Declaration

```
public decimal reportGrandTotalSalesNet { get; set; }
```

Property Value

Type	Description
decimal	

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
	auditfileCompanyLocationCashregisterEventEventReportReportPriceInquiry[]	

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
------	-------------

Reporttypestring	
----------------------------------	--

reportVoidTransAmnt

Declaration

```
public decimal reportVoidTransAmnt { get; set; }
```

Property Value

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

decimal	
-------------------------	--

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
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](#)

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
------	-------------

DateTime	
--------------------------	--

endTimePeriod

Declaration

```
public DateTime endTimePeriod { get; set; }
```

Property Value

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

DateTime	
--------------------------	--

periodDesc

Declaration

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

Property Value

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

string	
------------------------	--

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
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](#)

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
auditfileHeaderAuditfileSender	

auditfileVersion

Declaration

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

Property Value

Type Description

[string](#)

curCode

Declaration

```
public Currencycode curCode { get; set; }
```

Property Value

Type	Description
Currencycode	

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
auditfileHeaderAuditfileSenderStreetAddress[]	

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
string	filename	The filename
byte[]	data	
string	referenceText	
Stream	output	
SignatureKeys	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
SignatureFormat	format	format
byte[]	data	data
string	name	name

Properties

FileName

Declaration

```
public string FileName { get; }
```

Property Value

Type Description

[string](#)

Format

Declaration

```
public SignatureFormat Format { get; set; }
```

Property Value

Type	Description
SignatureFormat	

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
SignersDocumentFile	signersDocumentFile	
SignProperties	signProperties	

PlainTextSignersDocument(SignersDocumentFile, bool)

Declaration

```
public PlainTextSignersDocument(SignersDocumentFile signersDocumentFile, bool useMonoSpaceFont)
```

Parameters

Type	Name	Description
SignersDocumentFile	signersDocumentFile	
bool	useMonoSpaceFont	

PlainTextSignersDocument(SignersDocumentFile, bool, SignProperties)

Declaration

```
public PlainTextSignersDocument(SignersDocumentFile signersDocumentFile, bool useMonoSpaceFont, SignProperties signProperties)
```

Parameters

Type	Name	Description
SignersDocumentFile	signersDocumentFile	
bool	useMonoSpaceFont	
SignProperties	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
Dictionary<string, SignPropertyValue>	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
SignPropertyValue	signPropertyValue	

SignPropertyValue(byte[])

Declaration

```
public SignPropertyValue(byte[] value)
```

Parameters

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

byte[]	value	
------------------------	-------	--

SignPropertyValue(string, SignPropertyValue.Type)

Declaration

```
public SignPropertyValue(string value, SignPropertyValue.SignPropertyValue.Type type)
```

Parameters

Type	Name	Description
string	value	
SignPropertyValue.SignPropertyValue.Type	type	

Properties

Type

Declaration

```
public SignPropertyValue.SignPropertyValue Type { get; set; }
```

Property Value

Type	Description
SignPropertyValue.SignPropertyValue	

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
X509Certificate2	certificate	
AsymmetricAlgorithm	privateKey	

Properties

PrivateKey

Declaration

```
public AsymmetricAlgorithm PrivateKey { get; }
```

Property Value

Type	Description
AsymmetricAlgorithm	

X509Certificate2

Declaration

```
public X509Certificate2 X509Certificate2 { get; }
```

Property Value

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

Type	Description
X509Certificate2	

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
SignatureParameters	signatureParameters	

Properties

AcceptedCertificatePolicies

Declaration

```
[JsonConverter(typeof(StringEnumConverter))]
public AcceptedCertificatePolicies? AcceptedCertificatePolicies { get; set; }
```

Property Value

Type	Description
AcceptedCertificatePolicies?	

AnonymizeSigner

Declaration

```
public bool? AnonymizeSigner { get; set; }
```

Property Value

Type Description

[bool?](#)

DocumentFormat

Declaration

```
[JsonConverter(typeof(StringEnumConverter))]  
public DocumentFormat? DocumentFormat { get; set; }
```

Property Value

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

DocumentFormat?	
---------------------------------	--

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
SsnPersistenceLevel?	

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
string	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
------	-------------

SignatureParameters	
-------------------------------------	--

WithAcceptedCertificatePolicies(AcceptedCertificatePolicies)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithAcceptedCertificatePolicies(AcceptedCertificatePolicies acceptedCertificatePolicies)
```

Parameters

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

AcceptedCertificatePolicies	acceptedCertificatePolicies	
---	-----------------------------	--

Returns

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

SignatureParameters.SignatureParametersBuilder	
--	--

WithAnonymizeSigner(bool)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithAnonymizeSigner(bool anonymizeSigner)
```

Parameters

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

bool	anonymizeSigner	
----------------------	-----------------	--

Returns

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

SignatureParameters.SignatureParametersBuilder	
--	--

WithDtlsDigest(string)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithDtbsDigest (string dtbsDigest)
```

Parameters

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

string	dtbsDigest	
------------------------	------------	--

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithDtbsDigestAlgorithm(string)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithDtbsDigestAlgorithm (string dtbsDigestAlgorithm)
```

Parameters

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

string	dtbsDigestAlgorithm	
------------------------	---------------------	--

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithDtbsSignedInfo(string)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithDtbsSignedInfo (string dtbsSignedInfo)
```

Parameters

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

string	dtbsSignedInfo	
------------------------	----------------	--

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithEntityID(string)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithEntityID (string entityID)
```

Parameters

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

string	entityID	
------------------------	----------	--

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithFlowType(FlowType)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithFlowType (FlowType flowType)
```

Parameters

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

FlowType	flowType	
--------------------------	----------	--

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithMinAge(int)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithMinAge(int minAge)
```

Parameters

Type Name Description

Type	Name	Description
int	minAge	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithPreferredLanguage(Language)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithPreferredLanguage(Language preferredLanguage)
```

Parameters

Type	Name	Description
Language	preferredLanguage	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithReferenceText(string)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithReferenceText(string referenceText)
```

Parameters

Type	Name	Description
string	referenceText	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithSignatureFormat(SignatureFormat)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSignatureFormat(SignatureFormat signatureFormat)
```

Parameters

Type	Name	Description
SignatureFormat	signatureFormat	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithSignerSubjectNameID(string)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSignerSubjectNameID(string signersSubjectNameID)
```

Parameters

Type	Name	Description
string	signersSubjectNameID	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithSignersDocumentFormat(DocumentFormat)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSignersDocumentFormat (DocumentFormat signersDocumentFormat)
```

Parameters

Type	Name	Description
DocumentFormat	signersDocumentFormat	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithSsnPersistenceLevel(SsnPersistenceLevel)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithSsnPersistenceLevel (SsnPersistenceLevel ssnPersistenceLevel)
```

Parameters

Type	Name	Description
SsnPersistenceLevel	ssnPersistenceLevel	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

WithValidTransformation(Transformation)

Declaration

```
public SignatureParameters.SignatureParametersBuilder WithValidTransformation (Transformation transformation)
```

Parameters

Type	Name	Description
Transformation	transformation	

Returns

Type	Description
SignatureParameters.SignatureParametersBuilder	

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
DocumentFormat	signersDocumentFormat	
SignersDocumentFile	signersDocumentFile	
SignProperties	signProperties	

Properties

DocumentFormat

Declaration

```
public DocumentFormat DocumentFormat { get; }
```

Property Value

Type	Description
DocumentFormat	

SignProperties

Declaration

```
public SignProperties SignProperties { get; }
```

Property Value

Type	Description
SignProperties	

SignersDocumentFile

Declaration

```
public SignersDocumentFile SignersDocumentFile { get; }
```

Property Value

Type	Description
SignersDocumentFile	

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
------	------	-------------

string	fileName	
------------------------	----------	--

byte[]	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
string	signedParameters	
DataToBeSigned	dtbs	

Properties

DataToBeSigned

Declaration

```
public DataToBeSigned DataToBeSigned { get; }
```

Property Value

Type	Description
DataToBeSigned	

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
DocumentFormat	sdFormat	
SignatureFormat	signatureFormat	
ViewFormat	viewFormat	

Properties

SdFormat

Declaration

```
public DocumentFormat SdFormat { get; }
```

Property Value

Type	Description
DocumentFormat	

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
SignersDocument	signersDocument	
SignatureKeys	signatureKeys	
SignatureParameters	signatureParameters	

TransformationContext(SignersDocument, SignatureKeys, SignatureParameters, TransformationProperties)

Declaration

```
public TransformationContext(SignersDocument signersDocument, SignatureKeys signatureKeys, SignatureParameters signatureParameters, TransformationProperties transformationProperties)
```

Parameters

Type	Name	Description
SignersDocument	signersDocument	
SignatureKeys	signatureKeys	
SignatureParameters	signatureParameters	
TransformationProperties	transformationProperties	

Properties

DataToBeSigned

Output Dtbs

Declaration

```
public DataToBeSigned DataToBeSigned { get; set; }
```

Property Value

Type	Description
DataToBeSigned	

SignatureKeys

Signature keys used to JWS-sign the SigningPayload

Declaration

```
public SignatureKeys SignatureKeys { get; }
```

Property Value

Type	Description
SignatureKeys	

SignatureParameters

Signature parameters - the dtbsDigest and dtbsSignedInfo field will be updated during the transformation

Declaration

```
public SignatureParameters SignatureParameters { get; }
```

Property Value

Type	Description
SignatureParameters	

SignersDocument

Input SignersDocument

Declaration

```
public SignersDocument SignersDocument { get; }
```

Property Value

Type	Description
SignersDocument	

TransformationProperties**Declaration**

```
public TransformationProperties TransformationProperties { get; }
```

Property Value

Type	Description
TransformationProperties	

Methods**GetTransformation()****Declaration**

```
public Transformation GetTransformation()
```

Returns

Type	Description
Transformation	

UpdateDtbsSignedInfo(string)**Declaration**

```
public void UpdateDtbsSignedInfo(string signatureEncoded)
```

Parameters

Type	Name	Description
string	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
IEnumerable<Transformation>	

Methods

GetTransformation(DocumentFormat, SignatureFormat)

Declaration

```
public static Transformation GetTransformation(DocumentFormat sdFormat, SignatureFormat dtbsFormat)
```

Parameters

Type	Name	Description
DocumentFormat	sdFormat	
SignatureFormat	dtbsFormat	

Returns

Type	Description
Transformation	

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
SignersDocumentFile	signersDocumentFile	

XmlSignersDocument(SignersDocumentFile, SignProperties)

Declaration

```
public XmlSignersDocument(SignersDocumentFile signersDocumentFile, SignProperties signProperties)
```

Parameters

Type	Name	Description
SignersDocumentFile	signersDocumentFile	
SignProperties	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
string	message	
Exception	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
string	message	
ErrorCode	errorCode	

SignerException(string, ErrorCode, Exception)

Declaration

```
public SignerException(string message, ErrorCode errorCode, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
ErrorCode	errorCode	
Exception	innerException	

SignerException(string, Exception)

Declaration

```
public SignerException(string message, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
Exception	innerException	

Properties

ErrorCode

Declaration

```
public ErrorCode ErrorCode { get; set; }
```

Property Value

Type	Description
ErrorCode	

ErrorCodeDescription

Declaration

```
public string ErrorCodeDescription { get; }
```

Property Value

Type	Description
string	

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

[string](#) message

TransformationException(string, ErrorCode)

Declaration

```
public TransformationException(string message, ErrorCode errorCode)
```

Parameters

Type	Name	Description
string	message	
ErrorCode	errorCode	

TransformationException(string, ErrorCode, Exception)

Declaration

```
public TransformationException(string message, ErrorCode errorCode, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
ErrorCode	errorCode	
Exception	innerException	

TransformationException(string, Exception)

Declaration

```
public TransformationException(string message, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
Exception	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
string	message	
ErrorCode	errorCode	

ValidationException(string, ErrorCode, Exception)

Declaration

```
public ValidationException(string message, ErrorCode errorCode, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
ErrorCode	errorCode	
Exception	innerException	

ValidationException(string, Exception)

Declaration

```
public ValidationException(string message, Exception innerException)
```

Parameters

Type	Name	Description
string	message	
Exception	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
SignatureFormat	signatureFormat	

Returns

Type Description

[bool](#)

PresignDocument(TransformationContext)

Declaration

```
void PresignDocument(TransformationContext ctx)
```

Parameters

Type	Name	Description
TransformationContext	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
Transformation	transformation	

Returns

Type Description

[bool](#)

Transform(TransformationContext, ILogger)

Declaration

```
void Transform(TransformationContext transformationContext, ILogger logger)
```

Parameters

Type	Name	Description
TransformationContext	transformationContext	
ILogger	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
------	------	-------------

string	keystorePath	
------------------------	--------------	--

Returns

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

SignatureKeysLoader	
-------------------------------------	--

WithKeystoreType(string)

Declaration

```
public SignatureKeysLoader WithKeystoreType(string keystoreType)
```

Parameters

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

string	keystoreType	
------------------------	--------------	--

Returns

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

SignatureKeysLoader	
-------------------------------------	--

WithPrivateKeyPassword(string)

Declaration

```
public SignatureKeysLoader WithPrivateKeyPassword(string privateKeyPassword)
```

Parameters

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

string	privateKeyPassword	
------------------------	--------------------	--

Returns

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

SignatureKeysLoader	
-------------------------------------	--

WithX509Certificate2(X509Certificate2)

Declaration

```
public SignatureKeysLoader WithX509Certificate2(X509Certificate2 certificate)
```

Parameters

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

X509Certificate2	certificate	
----------------------------------	-------------	--

Returns

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

SignatureKeysLoader	
-------------------------------------	--

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
TransformationContext	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
TransformationContext	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
Transformation	transformation	

Returns

Type Description

[bool](#)

Transform(TransformationContext, ILogger)

Declaration

```
public void Transform(TransformationContext ctx, ILogger logger)
```

Parameters

Type	Name	Description
TransformationContext	ctx	
ILogger	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
SignatureFormat	signatureFormat	

Returns

Type Description

[bool](#)

PresignDocument(TransformationContext)

Declaration

```
public void PresignDocument(TransformationContext ctx)
```

Parameters

Type	Name	Description
TransformationContext	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
SignTextType	obj

Returns

Type Description

[byte](#)[]

Serialize(SignatureType)

Declaration

```
public static byte[] Serialize(SignatureType obj)
```

Parameters

Type	Name	Description
SignatureType	obj	

Returns

Type Description

[byte](#)[]

Serialize(SignedDocumentType)

Declaration

```
public static byte[] Serialize(SignedDocumentType obj)
```

Parameters

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

XmlNode[]	
---------------------------	--

Class DSAKeyValueType

Inheritance

[object](#)
DSAKeyValueType

Inherited 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 DSAKeyValueType
```

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
------	-------------

XmlNode[]	
---------------------------	--

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
------	-------------

ItemsChoiceType2[]	
------------------------------------	--

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
ReferenceType[]	

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
ItemsChoiceType1[]	

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
------	-------------

[RenderingType](#)

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
DigestMethodType	

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
TransformType[]	

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
TransformsType	transformsType	

Returns

Type	Description
ReferenceType	

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
------	-------------

[TransformType\[\]](#)

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
------	-------------

XmlElement	
----------------------------	--

SPKISexp

Declaration

```
public byte[][] SPKISexp { get; set; }
```

Property Value

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

byte[][]	
--------------------------	--

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
------	-------------

PropertyType[]	
--------------------------------	--

id

Declaration

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

Property Value

Type Description

[string](#)

Methods

GetHTMLDocument()

Declaration

```
public HTMLDocumentType GetHTMLDocument()
```

Returns

Type	Description
HTMLDocumentType	

GetPDFDocument()**Declaration**

```
public PDFDocumentType GetPDFDocument()
```

Returns

Type	Description
PDFDocumentType	

GetPlainTextDocument()**Declaration**

```
public PlainTextType GetPlainTextDocument()
```

Returns

Type	Description
PlainTextType	

GetXMLDocument()**Declaration**

```
public XMLDocumentType GetXMLDocument()
```

Returns

Type	Description
XMLDocumentType	

WithHTMLDocument(HTMLDocumentType)**Declaration**

```
public SignTextType WithHTMLDocument(HTMLDocumentType HTMLDocumentType)
```

Parameters

Type	Name	Description
HTMLDocumentType	HTMLDocumentType	

Returns

Type	Description
SignTextType	

WithPDFDocument(PDFDocumentType)**Declaration**

```
public SignTextType WithPDFDocument(PDFDocumentType pdfDocumentType)
```

Parameters

Type	Name	Description
PDFDocumentType	pdfDocumentType	

Returns

Type	Description
SignTextType	

WithPlainText(PlainTextType)

Declaration

```
public SignTextType WithPlainText(PlainTextType plainTextType)
```

Parameters

Type	Name	Description
PlainTextType	plainTextType	

Returns

Type	Description
SignTextType	

WithProperties(SignProperties)

Declaration

```
public SignTextType WithProperties(SignProperties signProperties)
```

Parameters

Type	Name	Description
SignProperties	signProperties	

Returns

Type	Description
SignTextType	

WithXMLDocument(XMLDocumentType)

Declaration

```
public SignTextType WithXMLDocument(XMLDocumentType xmlDocumentType)
```

Parameters

Type	Name	Description
XMLDocumentType	xmlDocumentType	

Returns

Type	Description
SignTextType	

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
SignaturePropertyType[]	

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
------	-------------

XmlElement[]	
------------------------------	--

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
SignatureValueType	

SignedInfo

Declaration

```
public SignedInfoType SignedInfo { get; set; }
```

Property Value

Type	Description
SignedInfoType	

Methods

WithId(string)

Declaration

```
public SignatureType WithId(string signatureId)
```

Parameters

Type	Name	Description
string	signatureId	

Returns

Type	Description
SignatureType	

WithSignedInfo(SignedInfoType)

Declaration

```
public SignatureType WithSignedInfo(SignedInfoType signedInfoType)
```

Parameters

Type	Name	Description
SignedInfoType	signedInfoType	

Returns

Type	Description
SignatureType	

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
SignTextType	

Signature

Declaration

```
public SignatureType Signature { get; set; }
```

Property Value

Type	Description
SignatureType	

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
CanonicalizationMethodType	

Id

Declaration

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

Property Value

Type Description

[string](#)

Reference

Declaration

```
public ReferenceType[] Reference { get; set; }
```

Property Value

Type	Description
ReferenceType[]	

SignatureMethod

Declaration


```
public SignatureMethodType SignatureMethod { get; set; }
```

Property Value

Type	Description
SignatureMethodType	

Methods

WithReference(ReferenceType)

Declaration

```
public SignedInfoType WithReference(ReferenceType referenceType)
```

Parameters

Type	Name	Description
ReferenceType	referenceType	

Returns

Type	Description
SignedInfoType	

WithSignatureMethod(SignatureMethodType)

Declaration

```
public SignedInfoType WithSignatureMethod(SignatureMethodType signatureMethod)
```

Parameters

Type	Name	Description
SignatureMethodType	signatureMethod	

Returns

Type	Description
SignedInfoType	

withCanonicalizationMethod(CanonicalizationMethodType)

Declaration

```
public SignedInfoType withCanonicalizationMethod(CanonicalizationMethodType canonicalizationMethodType)
```

Parameters

Type	Name	Description
CanonicalizationMethodType	canonicalizationMethodType	

Returns

Type	Description
SignedInfoType	

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
TransformType	

WithAlgorithm(string)**Declaration**

```
public TransformType WithAlgorithm(string algorithm)
```

Parameters

Type	Name	Description
string	algorithm	

Returns

Type	Description
TransformType	

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
TransformType[]	

Methods

CreateTransformsType()

Declaration

```
public static TransformsType CreateTransformsType()
```

Returns

Type	Description
TransformsType	

WithTransform(TransformType)

Declaration

```
public TransformsType WithTransform(TransformType transformType)
```

Parameters

Type	Name	Description
TransformType	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

[Dictionary<PaymentType, int>](#)

FiscalCountry

The fiscal country of the client configuration.

Declaration

```
public abstract FiscalCountry FiscalCountry { get; }
```

Property Value

Type

Description

[FiscalCountry](#)

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
------	------	-------------

Guid	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
IFiscalImplementationConfiguration	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 <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
Dictionary<int, int>	

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
string	baseUrl	The base url of the flink interface.
string	flinkDebugDirectory	The directory to store the last 15 requests to flink for analysis.
ILogger	logger	Additional logger for logging purposes.

Methods

Post(HttpFlinkCommand, int?)

Post a command to flink interface and gets return.

Declaration

```
public string Post(HttpFlinkCommand command, int? encoding)
```

Parameters

Type	Name	Description
HttpFlinkCommand	command	A HttpFlinkCommand object representing the flink command.
int?	encoding	

Returns

Type	Description
string	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
List<HttpFlinkCommand>	commands	A list of HttpFlinkCommand objects representing a whole document.
Guid	documentGuid	The guid of the corresponding document; send Empty is not used.
int?	encoding	

Returns

Type	Description
string	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
Document	document	The document to validate.

Returns

Type	Description
List<DocumentValidationError>	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
char	command	The command char (look at flink documentation).

Exceptions

Type	Condition
ArgumentNullException	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
------	------	-------------

int?	maxLength	Optional. The max length of the string; other data will be truncated.
----------------------	-----------	---

ToString()

Returns the command as string representation for http flink interface.

Declaration

```
public override string ToString()
```

Returns

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

string	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
ILogger	logger	The logger for the interface.
string	clientStoragebasePath	The storage base path for the fiscal module client.
bool	sendDocumentAtOnce	True if the document is sent "at once" to the printer; otherwise false.
string	baseUrl	The interface url for http flink interface. If not set "http://localhost:5530" is used.
int?	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
FlinkDiscountType	discountType	One number with a value 0 (surcharge) or 1 (discount).
decimal	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
string	line1	First line to display on ecr.
string	line2	Second line to display on ecr.

Returns**Type Description**

[string](#)

Remarks

Flink command: E

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**

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

```
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
string	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.
string	name	Is the name of the article (up to 22 symbols for ECR and up to 23 for FP)
decimal	price	Is the price of a single article (0 -> 999999.99)
decimal	quantity	Is the quantity sold (0 -> 999999.999)
int?	stand	Optional. Is the stand number (1 -> 9)
int?	articleGroup	Optional. Is the number of the article group (a number 1 -> 99)
int?	taxGroup	Optional. Is the tax group of the article (1 -> 9)
string	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
int?	discountPercent	Optional. Is discount or surcharge in percents (0 -> 99). Negative value is surcharge.
decimal?	discountAmount	Optional. Is discount or surcharge in absolute value. Negative value is surcharge.
string	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 <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

[decimal](#) value
[string](#) remark

Returns

Type Description

[string](#)

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

```
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
-----------	-------------

string line1	To be printed line 1.
------------------------------	-----------------------

string line2	To be printed line 2.
------------------------------	-----------------------

string line3	To be printed line 3.
------------------------------	-----------------------

string line4	To be printed line 4.
------------------------------	-----------------------

string 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
------	------	-------------

int?	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
------	------	-------------

BarcodeType type		The type of the bar code (ean8, ean13, code128).
----------------------------------	--	--

string	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
------	------	-------------

[DateTime](#) refBookDate The book date of the referenced document.

[int](#) refFiscalDocumentNumber The fiscal document number of the referenced document.

[string](#) refDocumentNumber The document number of the fiscal document. Please refer to country documentation for this value.

[string](#) refDocumentNumberSeries The series for the document numbers. Please refer to country documentation for this value.

[int](#) reason The reason for the return (type as integer).

[string](#) 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
------	------	-------------

[Guid?](#) documentGuid The guid of the corresponding document. Optional.

Returns

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

[string](#) The return for all of this commands.

SynchronizeTime()

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
------	------	-------------

int	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!
---------------------	------	---

decimal	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
Dictionary<int, int>	

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()

Cancel 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
FlinkDiscountType	discountType	One number with a value 0 (surcharge) or 1 (discount).
decimal	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
string	line1	First line to display on ecr.

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

[decimal](#)? discountAmount Optional. Is discount or surcharge in absolute value. Negative value is surcharge.

[string](#) 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
------	------	-------------

[decimal](#) value

[string](#) remark

Returns

Type Description

[string](#)

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
------	------	-------------

[string](#) line1 To be printed line 1.

[string](#) line2 To be printed line 2.

[string](#) line3 To be printed line 3.

[string](#) line4 To be printed line 4.

[string](#) 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

```
string OpenReturnReceipt(int? refNumber = null)
```

Parameters

Type	Name	Description
int?	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

```
string PrintBarcode(BarcodeType type, string barcode)
```

Parameters

Type	Name	Description
BarcodeType	type	The type of the bar code (ean8, ean13, code128).
string	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
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

```
string ReturnReceiptDetails(DateTime refBookDate, int refFiscalDocumentNumber, string refDocumentNumber, string refDocumentNumberSeries, int reason, string reasonText)
```

Parameters

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

Type	Name	Description
DateTime	refBookDate	The book date of the referenced document.
int	refFiscalDocumentNumber	The fiscal document number of the referenced document.
string	refDocumentNumber	The document number of the fiscal document. Please refer to country documentation for this value.
string	refDocumentNumberSeries	The series for the document numbers. Please refer to country documentation for this value.
int	reason	The reason for the return (type as integer).
string	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
Guid?	documentGuid	The guid of the corresponding document. Optional.

Returns

Type Description

[string](#) The return for all of this commands.

SynchronizeTime()

Synchronizes time command.

Declaration

```
string SynchronizeTime()
```

Returns

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

```
string TotalOrPayment(int code, decimal sum)
```

Parameters

Type	Name	Description
int	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!
decimal	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.

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>.ModuleEnvironment](#)
[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\(string, string, string, string, string\)](#)
[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>.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.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](#)

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

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>, FiscalModuleEnvironment, bool, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleFlink(FiscalClient client, ILogger logger, string logSource, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, bool sendDocumentAtOnce, string storageBasePath, CloudService cloudService, string cloudApiKey, string cloudApiSecret)
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
string	logSource	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
bool	sendDocumentAtOnce	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Fields

FlinkInterface

Declaration

```
protected HttpFlinkInterface FlinkInterface
```

Field Value

Type	Description
HttpFlinkInterface	

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

[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)

Cancel a document on the fiscal interface.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
------	------	-------------

[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<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
------	------	-------------

[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<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
-----------	-------------

[string](#) line1 The first line to display.

[string](#) line2 The second line to display.

Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DisplayText\(string, string\)](#)

GetCountrySpecificEmptyFiscalResponse()

Returns an empty country specific [FiscalResponse](#).

Declaration

```
protected abstract FiscalResponse GetCountrySpecificEmptyFiscalResponse()
```

Returns

Type	Description
FiscalResponse	An object of type FiscalResponse representing an empty country specific FiscalResponse .

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
string	signature	The return value of the printer if everything goes well.
List<DocumentTaxPosition>	taxPositions	The tax positions of the document.
string	userMessage	The error message of the printer.

Returns

Type	Description
FiscalResponse	The country specific FiscalResponse 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
PaymentType	paymentType	The PaymentType to map.

Returns

Type	Description
int	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
string	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
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.

Type	Name	Description
string	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
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

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

[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
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

Overrides

[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

Implements

- [IFiscalModuleImplementation](#)
- [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
IFiscalImplementationConfiguration	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 <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
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	
string	signature	
string	cashRegisterId	
string	printMessage	
string	errorDescription	
string	fiscalMark	The fiscal mark of the fiscal response.
string	siret	The siret (siren + nic (store identification number)).
int	reprintCount	The reprint count of this response (if document was signed).
string	documentNumber	The document number of the fiscal response (if document was signed).
string	signedData	The data which was signed and for which the signature was created.
string	userMessage	The user message

Returns

Type	Description
FiscalResponse	The FiscalResponse 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
FiscalResponse	fiscalResponse	The fiscal response holding the value.

Returns

Type	Description
int	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
FiscalResponse	fiscalResponse	The fiscal response holding the value.

Returns

Type	Description
string	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
FiscalResponse	fiscalResponse	The fiscal response holding the value.

Returns

Type	Description
string	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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<FranceFiscalisationRequiredAttribute>.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<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
------	------	-------------

FiscalClient	client	
------------------------------	--------	--

Returns

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

List<ValidationError>	
---	--

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
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

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
IStreamProvider	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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleFrance(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string s
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

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
AuditLogEntry	auditLogEntry	The audit log entry to store.

Returns

Type	Description
FiscalResponse	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
ArgumentNullException	Thrown if parameter <code>auditLogEntry</code> is set to null.

CancelDocument(Document)

Cancels a document on the fiscal interface.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
DateTime	fromDate	The start date to query for the french archives.

DateTime	tillDate	The end date to query for the french archives.
--------------------------	----------	--

Returns

Type	Description
IEnumerable<FrenchArchive>	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
string	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
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, 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
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, FranceFiscalisationRequiredAttribute, FranceFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

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

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .

[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
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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
ValidationException	Thrown if property User 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
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

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
FrenchArchive	frenchArchive	The french archive to verify.
ISignatureInterface	terminalSignatureInterface	The signature interface to validate the signatures.
ISignatureVerifyInterface	organizationSignatureVerifyInterface	The signature interface of the organization having the public key to verify the signature.
string	previousArchiveSignature	A previous signature of a previous archive. Optional. If omitted it will not be verified.

Returns

Type	Description
List<ValidationError>	A list of errors and warnings from the verification process.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>frenchArchive</code> is set to null.
ArgumentNullException	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
FrenchArchive	frenchArchive	The french archive to verify.
string	previousArchiveSignature	A previous signature of a previous archive. Optional. If omitted it will not be verified.

Returns

Type	Description
List<ValidationError>	A list of errors and warnings from the verification process.

Exceptions

Type	Condition
ArgumentNullException	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
List<JetEntry>	

CertifiedVersion

The version which was certified according to NF525.

Declaration

```
public string CertifiedVersion { 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)

Documents

All documents included in this archive.

Declaration

```
public List<StoredDocument> Documents { get; set; }
```

Property Value

Type	Description
List<StoredDocument>	

FiscalClient

The fiscal client (meta data) generated to export this archive.

Declaration

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

Property Value

Type	Description
FiscalClient	

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
List<GrandTotal>	

LastArchiveDateTime

The date/time of the last fiscal archive.

Declaration

```
public DateTime? LastArchiveDateTime { get; set; }
```

Property Value

Type	Description
DateTime?	

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
List<DocumentTaxPosition>	

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
IStreamProvider	streamProvider	
bool	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
int	eventId	
string	cashRegisterId	
AuditLogEntry	auditLogEntry	
string	previousSignature	

JetEntry(string)

Constructor. Gets a jet entry from string representation.

Declaration

```
public JetEntry(string jetEntry)
```

Parameters

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

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

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\(\)](#)

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
------	-------------

LogEntryType?	
-------------------------------	--

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
EventCodeMandatoryIndicator	

MandatoryNF525

Declaration

```
public EventCodeMandatoryIndicator MandatoryNF525 { get; set; }
```

Property Value

Type	Description
EventCodeMandatoryIndicator	

Purgeable

Declaration

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

Property Value

Type Description

[bool](#)

Methods

AuditLogEventCodeDictionary()

Declaration

```
public static Dictionary<LogEntryType, EventCodeObject> AuditLogEventCodeDictionary()
```

Returns

Type	Description
Dictionary<LogEntryType, EventCodeObject>	

EventCodes()

Returns a dictionary of configured event codes for jet (technical audit trail france).

Declaration

```
public static Dictionary<int, EventCodeObject> EventCodes()
```

Returns

Type	Description
Dictionary<int, EventCodeObject>	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
LogEntryType	logEntryType	

Returns

Type	Description
EventCodeObject	

FromEventCode(int)

Declaration

```
public static EventCodeObject FromEventCode(int eventCode)
```

Parameters

Type	Name	Description
int	eventCode	

Returns

Type	Description
EventCodeObject	

MandatoryCharConverter(EventCodeMandatoryIndicator)

Declaration

```
public char MandatoryCharConverter(EventCodeMandatoryIndicator indicator)
```

Parameters

Type	Name	Description
EventCodeMandatoryIndicator	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
TseConfiguration	

TaxonomyCloudStoreConfiguration

The configuration for the cloud taxonomy store (DS-FinVK).

Declaration

```
public TaxonomyCloudStoreConfiguration TaxonomyCloudStoreConfiguration { get; set; }
```

Property Value

Type	Description
TaxonomyCloudStoreConfiguration	

TaxonomyFileStoreConfiguration

The configuration for the local taxonomy store (DS-FinVK).

Declaration

```
public TaxonomyFileStoreConfiguration TaxonomyFileStoreConfiguration { get; set; }
```

Property Value

Type	Description
TaxonomyFileStoreConfiguration	

Methods

Encrypt(Guid)

Encrypts sensitive data.

Declaration

```
public void Encrypt(Guid uniqueClientId)
```

Parameters

Type	Name	Description
Guid	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
IFiscalImplementationConfiguration	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 <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
------	------	-------------

IBusinessTransactionTypePosition	position	The position to evaluate.
--	----------	---------------------------

Returns

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

decimal	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
------	------	-------------

IBusinessTransactionTypePosition	position	The position to evaluate.
--	----------	---------------------------

Returns

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

decimal	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
------	------	-------------

IBusinessTransactionTypePosition	position	The position to evaluate.
--	----------	---------------------------

Returns

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

decimal	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
------	------	-------------

IBusinessTransactionTypePosition	position	The position to evaluate.
--	----------	---------------------------

Returns

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

string	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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
FiscalResponse	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
int	fiscalDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	qrCodeDataString	The QR code data string according to Appendix I of DSFinV-K.
long	transactionStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).

Type	Name	Description
long	transactionEndTime	The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
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".
string	processType	The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".
string	tseSerial	The serialnumber of the tss module.
string	tseTimeFormat	The time format which is used by the tss.
string	tseHashAlgorithm	The hash algorithm which is used by the tss.
string	tsePublicKey	The public key of the tss.
long	tseSignatureCounter	The actual signature counter of the tss after signing the transaction.
string	tseCertificate	The certificate of the tss.
int	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
FiscalResponse	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
FiscalResponse	fiscalResponse	

Returns

Type Description

[long](#)

TseCertificate(FiscalResponse)

The certificate of the tse.

Declaration

```
public static string TseCertificate(this FiscalResponse fiscalResponse)
```

Parameters

Type	Name	Description
FiscalResponse	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
FiscalResponse	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
FiscalResponse	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
FiscalResponse	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
FiscalResponse	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
FiscalResponse	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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<GermanFiscalisationRequiredAttribute>.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<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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
ReadOnlyDictionary<PaymentType, BusinessCaseType>	

SupportedBusinessTypesMapping

Declaration

```
public static readonly ReadOnlyDictionary<BusinessTransactionType, BusinessCaseType> SupportedBusinessTypesMapping
```

Field Value

Type	Description
ReadOnlyDictionary<BusinessTransactionType, BusinessCaseType>	

SupportedBuyerTypeMapping

Declaration

```
public static readonly ReadOnlyDictionary<string, BuyerType> SupportedBuyerTypeMapping
```

Field Value

Type	Description
ReadOnlyDictionary<string, BuyerType>	

SupportedDocumentTypesMapping

Declaration

```
public static readonly ReadOnlyDictionary<DocumentType, TransactionType> SupportedDocumentTypesMapping
```

Field Value

Type	Description
ReadOnlyDictionary < DocumentType , TransactionType >	

SupportedPaymentTypesMapping

Declaration

```
public static readonly ReadOnlyDictionary<PaymentType, TypeEnum> SupportedPaymentTypesMapping
```

Field Value

Type	Description
ReadOnlyDictionary < PaymentType , TypeEnum >	

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

Type	Description
ReadOnlyCollection < Vat >	

Properties

SupportedDocumentTypes

Represents the supported document types by germany fiscalisation.

Declaration

```
public static List<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

Type	Description
List < DocumentType >	

Methods

ValidateDocument(Document)

validates the document

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleGermany(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string :
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.FiscalClientStatus](#)

Tse

Returns the connected tse (if connected).

Declaration

```
public TseBase Tse { get; }
```

Property Value

Type	Description
TseBase	

TseStatus

Returns the status of the tse.

Declaration

```
public TseStatus TseStatus { get; }
```

Property Value

Type	Description
TseStatus	

Methods

CancelDocument(Document)

Cancels the document on the tse.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	The fiscal response including the transaction number

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.CancelDocument\(Document\)](#)

CancelOpenTransactions()

Cancels 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
[List<Transaction>](#) transactions
[int](#) cashPointClosingNumber
[Dictionary<string, Reference>](#) documentReferences

Returns

Type	Description
CashPointClosing	

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, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.DecommissionClient\(Document\)](#)

DecryptTseParameter(Guid, string)

Decrypts a tse parameter.

Declaration

```
public static string DecryptTseParameter(Guid clientId, string parameterValueEncrypted)
```

Parameters

Type	Name	Description
Guid	clientId	The client of the tse parameter.
string	parameterValueEncrypted	The encrypted value of the tse parameter. If this value is not encrypted the plain value will be returned.

Returns

Type	Description
string	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
Guid	clientId	The client of the tse parameter.
string	parameterValue	The value of the parameter to encrypt.

Returns

Type	Description
string	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
ILogger	logger	

Type	Name	Description
ZipOutputStream	zipOutputStream	
List<CashPointClosing>	closingList	
string	folderPrefix	

ExportJsonTaxonomyToZipStream([ZipOutputStream](#), [List<CashPointClosing>](#), [string](#))

Declaration

```
public static void ExportJsonTaxonomyToZipStream(ZipOutputStream zipOutputStream, List<CashPointClosing> closingList, string folderPrefix = "")
```

Parameters

Type	Name	Description
ZipOutputStream	zipOutputStream	
List<CashPointClosing>	closingList	
string	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
Stream	outputStream	The output stream where the data should be written.
DateTime	fromDate	Required. The start date for the export. Only date-part is used.
DateTime	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
Stream	outputStream	The output stream to export the data..
DateTime	fromDate	Required. The start date for the export. Only date-part is used.
DateTime	tillDate	Required. The end date for the export. Only date-part is used.
int	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
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.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.GetDocumentMandatoryFields\(\[Type\]\(#\)\)](#)

GetOpenEndOfDayCashPointClosing([Guid](#), [Document](#))

Declaration

```
public CashPointClosing GetOpenEndOfDayCashPointClosing(Guid uniqueClientId, Document document)
```

Parameters

Type	Name	Description
Guid	uniqueClientId	
Document	document	

Returns

Type	Description
CashPointClosing	

GetOpenOfflineSignatures()

Returns all open offline signatures stored for the actual tse.

Declaration

```
public List<long> GetOpenOfflineSignatures()
```

Returns

Type	Description
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
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
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
ArgumentNullException	Thrown if parameter <code>configuration</code> is set to null.
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>parameterName</code> 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
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, 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
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, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or <code>Empty</code> .
NotSupportedException	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, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

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

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

ProcessTseOpenOfflineSignatures(int)

Process open offline signatures.

Declaration

```
public void ProcessTseOpenOfflineSignatures(int count)
```

Parameters

Type	Name	Description
int	<code>count</code>	The count of the signatures to process; -1 will process all open signatures (consider runtime!).

Exceptions

Type	Condition
InvalidOperationException	Thrown if the internal tse is set to null.
ArgumentOutOfRangeException	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
TseDriver	<code>newTseDriver</code>	The new tse to replace.
bool	<code>forceReplace</code>	True if the tse replace process should continue also if old tse cannot be archived (data export) any more; otherwise false.
List<Parameter>	<code>newTseParameter</code>	Do not use. Will be replaced by new tse replace which also will support change of driver.

Exceptions

Type	Condition
NotSupportedException	Thrown if tse is not a swissbit hardware or cloud tse. Thrown if tse type is changed.
InvalidOperationException	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
string	<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
ClientConfiguration	<code>configuration</code>	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.StoreConfiguration\(ClientConfiguration\)](#)

Remarks

Overrides base class method (this only stores to configuration)

StoreDocument(Document)

Saves 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
Document	document	

Returns

Type	Description
FiscalResponse	The fiscal response including the transaction number

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.StoreDocument\(Document\)](#)

Exceptions

Type	Condition
ArgumentException	Thrown if the given document was not created with correct FiscalResponse created by CreateDocument(DocumentType) .

UpdateTseFirmware(string)

Updates the firmware at the swissbit device.

Declaration

```
public string UpdateTseFirmware(string version)
```

Parameters

Type	Name	Description
string	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
DirectoryNotFoundException	Thrown if the firmware update path is not found.
NotSupportedException	Thrown if firmware type of tse is not "DEV" or "RLS".
FileNotFoundException	Thrown if the requested firmware update bin file is not found.
InvalidOperationException	Thrown if the tse to update the firmware is not in status Connected or ConnectedWarning .

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
List<DocumentValidationError>	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, GermanFiscalisationRequiredAttribute, GermanFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

Implements

[IFiscalModuleImplementation](#)
[IDocumentInterface](#)

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
------	-------------

TseDriver	
---------------------------	--

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

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

List<Parameter>	
---------------------------------------	--

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

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

TseConfiguration	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
List<ParameterInfo>	

TseDriver

The driver for this driver information

Declaration

```
public TseDriver TseDriver { get; set; }
```

Property Value

Type	Description
TseDriver	

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

[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
------	------	-------------

Type	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.
Type	objectType	Type of the object.
object	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.
object	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
List<object>	

Bool

Declaration

```
public bool? Bool
```

Field Value

Type Description

[bool?](#)

BusinessCaseLineClass

Declaration

```
public BusinessCaseLineClass BusinessCaseLineClass
```

Field Value

Type	Description
BusinessCaseLineClass	

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
BusinessCaseLineClass	BusinessCaseLineClass	

Returns

Type	Description
BusinessCaseLine	

implicit operator BusinessCaseLine(bool)

Declaration

```
public static implicit operator BusinessCaseLine(bool Bool)
```

Parameters

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

bool		Bool
----------------------	--	------

Returns

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

BusinessCaseLine	
----------------------------------	--

implicit operator BusinessCaseLine(List<object>)

Declaration

```
public static implicit operator BusinessCaseLine(List<object> AnythingArray)
```

Parameters

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

List<object>		AnythingArray
------------------------------------	--	---------------

Returns

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

BusinessCaseLine	
----------------------------------	--

implicit operator BusinessCaseLine(decimal)

Declaration

```
public static implicit operator BusinessCaseLine(decimal Double)
```

Parameters

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

decimal		Double
-------------------------	--	--------

Returns

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

BusinessCaseLine	
----------------------------------	--

implicit operator BusinessCaseLine(long)

Declaration

```
public static implicit operator BusinessCaseLine(long Integer)
```

Parameters

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

long		Integer
----------------------	--	---------

Returns

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

BusinessCaseLine	
----------------------------------	--

implicit operator BusinessCaseLine(string)

Declaration

```
public static implicit operator BusinessCaseLine(string String)
```

Parameters

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

string	String	
------------------------	--------	--

Returns

Type	Description
BusinessCaseLine	

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
List<VatAmountOnly>	

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

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

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

BusinessCaseType	
----------------------------------	--

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
------	-------------

AddressOptional	
---------------------------------	--

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
CustomFields	

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
CashPointClosingHead	

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
CashPointClosingSecurity	

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
List	<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
DateTimeOffset?	

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
Company	

CreationDate

Das Erstellungsdatum des Kassenabschlusses.

Declaration

```
[JsonProperty("creation_date")]
public DateTimeOffset CreationDate { get; set; }
```

Property Value

Type	Description
DateTimeOffset	

CustomFields

Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]
public CustomFields CustomFields { get; set; }
```

Property Value

Type	Description
CustomFields	

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
string	

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
string	

Methods

Equals(object)

Equals !! if needed override hash code !!

Declaration

```
public override bool Equals(object obj)
```

Parameters

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

PurpleTse	
---------------------------	--

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
List<PurchaserAgency>	

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
List<BusinessCase>	

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
Payment	

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
CashPointClosing	

Methods

FromJson(string)

Declaration

```
public static Coordinate FromJson(string json)
```

Parameters

Type	Name	Description
string	json	

Returns

Type	Description
Coordinate	

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
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
------	------	-------------

ILogger	logger	
-------------------------	--------	--

Methods

Export(List<CashPointClosing>, string)

Declaration

```
public void Export(List<CashPointClosing> cashPointClosings, string exportPath)
```

Parameters

Type	Name	Description
List<CashPointClosing>	cashPointClosings	
string	exportPath	

ExportToZipStream(List<CashPointClosing>, ZipOutputStream, string)

Declaration

```
public void ExportToZipStream(List<CashPointClosing> cashPointClosings, ZipOutputStream zipOutputStream, string folderPrefix)
```

Parameters

Type	Name	Description
List<CashPointClosing>	cashPointClosings	
ZipOutputStream	zipOutputStream	
string	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
List<Line>	

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
string	

PaymentTypes

Declaration

```
[JsonProperty("payment_types", NullValueHandling = NullValueHandling.Ignore)]
public List<DataPaymentType> PaymentTypes { get; set; }
```

Property Value

Type	Description
List<DataPaymentType>	

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
------	-------------

DateTimeOffset	
--------------------------------	--

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
------	-------------

string	
------------------------	--

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

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

StartTransaction	
----------------------------------	--

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 Artelebene 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
------	-------------

List<SubItem>	
-------------------------------------	--

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. au erhausverkauf

Declaration

```
[JsonProperty("in_house", NullValueHandling = NullValueHandling.Ignore)]  
public bool? InHouse { get; set; }
```

Property Value

Type Description

[bool?](#)

Item

Innerhalb des Gesch ftsvorfalles 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
LogTimeFormat	

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
SignatureAlgorithm	

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 Währung

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
------	-------------

List<Module>	
------------------------------------	--

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
------	-------------

ProcessDataEncoding	
-------------------------------------	--

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
DateTimeOffset?	

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
ReferenceType	

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
Coordinate	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
DateTimeOffset	

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
VatAmountGrossOrNet	

CustomFields

Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

Property Value

Type	Description
CustomFields	

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
ILogger	logger	An instance of an logger

[TaxonomyFileStoreConfiguration](#) configuration the configuration for the storage

Exceptions

Type	Condition
ArgumentNullException	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
------	------	-------------

Guid	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

int	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
------	------	-------------

Guid	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

Returns

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

int	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
------	------	-------------

Guid	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

int	cashPointClosingNr	The cash point closing number which should be loaded
---------------------	--------------------	--

Returns

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

CashPointClosing	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
------	------	-------------

Guid	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

int	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The cash point closing number from which the transaction should be loaded

Returns

Type	Description
Transaction	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
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.

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
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.

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
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

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
Guid	uniqueClientId	The unique id of the client
CashPointClosing	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The cash point closing number where the header should be stored
CashPointClosingHeader	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The cash point closing number where the header should be stored
CashPointClosingSecurity	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The number of the cashpoint closing to store
Transaction	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
Guid	uniqueClientId	
List<Reference>	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The cashpoint closing number
string	tseSerial	The serial of the tse
Stream	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
ILogger	logger	An instance of an logger
string	logSource	Name of the logging source
T	configuration	the configuration for the storage

Exceptions

Type	Condition
ArgumentNullException	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
------	------	-------------

Guid	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

int	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
------	------	-------------

Guid	uniqueClientId	The unique id of the client
----------------------	----------------	-----------------------------

int	cashPointClosingNr	The cash point closing number to load
---------------------	--------------------	---------------------------------------

Returns

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

CashPointClosingHead	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
------	------	-------------

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

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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The cash point closing number where the header should be stored
CashPointClosingSecurity	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The number of the cashpoint closing to store
Transaction	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
Guid	uniqueClientId	
List<Reference>	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
Guid	uniqueClientId	The unique id of the client
int	cashPointClosingNr	The cashpoint closing number
string	tseSerial	The serial of the tse

Type	Name	Description
Stream	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
TransactionSecurity	

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
ClosingCashRegister	

CustomFields

Declaration

```
[JsonProperty("custom_fields", NullValueHandling = NullValueHandling.Ignore)]  
public CustomFields CustomFields { get; set; }
```

Property Value

Type	Description
CustomFields	

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
List<Reference>	

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
DateTimeOffset	

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
DateTimeOffset	

Type

Declaration

```
[JsonProperty("type")]  
public TransactionType Type { get; set; }
```

Property Value

Type	Description
TransactionType	

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
User	

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
------	-------------

FluffyTse	
---------------------------	--

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
------	------	-------------

string	countryCode	
------------------------	-------------	--

Returns

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

CountryCode?	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
------	------	-------------

string	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
------	------	-------------

string	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
------	------	-------------

string	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
------	-------------

decimal?	
--------------------------	--

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
------	-------------

decimal?	
--------------------------	--

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
------	-------------

CustomFields	
------------------------------	--

Description

Declaration

```
[JsonProperty("description", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(CunningMinMaxLengthCheckConverter))]  
public string Description { get; set; }
```

Property Value

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

string	
------------------------	--

Id

Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

Property Value

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

long	
----------------------	--

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
DataSetDataSupplier	

Media

Declaration

```
public DataSetMedia Media { get; set; }
```

Property Value

Type	Description
DataSetMedia	

Version

Declaration

```
public float Version { get; set; }
```

Property Value

Type	Description
float	

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
DataSetMediaTable[]	

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
------	-------------

DataSetMediaTableRange	
--	--

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
------	-------------

DataSetMediaTableVariableLength	
---	--

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
DataSetMediaTableVariableLengthVariableColumn[]	

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
string	apiKey	
string	apiSecret	
string	tssId	
Guid	clientId	
ILogger	logger	
string	uniqueCashRegisterId	The unique cash register id for the tse.

ProxyConfiguration proxyConfiguration

Exceptions

Type	Condition
ArgumentNullException	

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)

Cancel 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
Guid	clientId	The client where the transaction should occur.
int	number	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

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

[TseResponse](#)

Overrides

[TseBase.CancelTransactionImplementation\(Guid, int, int, string\)](#)

Exceptions

Type	Condition
ArgumentOutOfRangeException	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".
InvalidOperationException	Thrown if no response is sent from fiskaly.

CommitTarExport(Guid, bool)

Inform 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
Guid	exportId	The export id
bool	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
Stream	outputStream	The stream to write the tar data.
DateTime?	fromDate	The start date for the export (greater or equal).
DateTime?	tillDate	The end date for the export (smaller or equal).

Returns

Type	Description
Guid	An export id which can be used to start method CommitTarExport(Guid, bool) .

Remarks

This method writes a tar file to the stream (one file).

Exceptions

Type	Condition
TimeoutException	Thrown if the export exceeds maximum time of 10 min.
InvalidOperationException	Thrown if exception occurs when exporting data.
OperationCanceledException	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
Stream	outputStream	The stream to write the tar data.
string	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).

Returns

Type	Description
Guid	An export id which can be used to start method CommitTarExport(Guid, bool) . This export id is used to remember special values for the method CommitTarExport(Guid, bool) . You can return NewGuid() 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
------	------	-------------

Guid	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
------	-------------

TseResponse	A TseResponse object representing the response of the tse.
-----------------------------	--

Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

Exceptions

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

ArgumentNullException	Thrown if <code>request</code> parameter is set to null or <code>clientId</code> is set to Empty .
---------------------------------------	--

InvalidOperationException	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
------	------	-------------

Guid	clientId	The clientId for the operation (FiscalClient id)
----------------------	----------	--

long	transactionNumber	The transaction number where the TransactionResponse is requested.
----------------------	-------------------	--

Returns

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

TransactionResponse	A TransactionResponse object representing the whole transaction information for the given transaction number.
-------------------------------------	---

Exceptions

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

InvalidOperationException	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
------	------	-------------

Guid	clientId	The client where the tse configuration should occur.
----------------------	----------	--

string	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
------------------------	----------------------	--

TseConfiguration	configuration	The configuration properties to configure the tse.
----------------------------------	---------------	--

Action<TseConfiguration> storeTseConfiguration	An action to store the tse configuration back during initialization.
--	--

bool	replace	True if any existing tse should be replaced; otherwise false.
----------------------	---------	---

Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

Exceptions

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

ArgumentNullException	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
List<string>	A list of Guid 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
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).

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
Guid	clientId	The client where the transaction should occur.
string	processType	The processType of the started transaction; mapped out of the document type.

Returns

Type	Description
TseResponse	A TseResponse object representing the response of the tse.

Overrides

[TseBase.StartTransactionImplementation\(Guid, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>clientId</code> is set to Empty .
InvalidOperationException	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
Guid	clientId	The client which uses the tse.
string	tseSerial	The configured serial of the tse.
ILogger	logger	Logger for the tse.
string	ersCode	The authentication code (ers code) for the tse. You can find this in
string	uniqueCashRegisterId	The unique cash register id for the tse.
string	connectorUrl	Base url to the local cloud connector, default: http://localhost:20001"

Exceptions

Type	Condition
ArgumentNullException	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
------	-------------

TseStatus	
---------------------------	--

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
------	-------------

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
Guid	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

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

TseResponse	A TseResponse 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
------	------	-------------

Guid	exportId	The export id
----------------------	----------	---------------

bool	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
------	------	-------------

Stream	outputStream	The stream to write the tar data.
------------------------	--------------	-----------------------------------

string	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).
------------------------	----------	--

Returns

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

Guid	An export id which can be used to start method CommitTarExport(Guid, bool) . This export id is used to remember special values for the method CommitTarExport(Guid, bool) . You can return NewGuid() 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
------	------	-------------

Guid	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
------	-------------

TseResponse	A TseResponse 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
Guid	clientId	The client where the tse configuration should occur.
string	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
TseConfiguration	configuration	The configuration properties to configure the tse.
Action<TseConfiguration>	storeTseConfiguration	An action to store the tse configuration back during initialization.
bool	replace	True if any existing tse should be replaced; otherwise false.

Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

Exceptions

Type	Condition
ArgumentNullException	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
List<string>	A list of Guid 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
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).

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
Guid	clientId	The client where the transaction should occur.
string	processType	The processType of the started transaction; mapped out of the document type.

Returns

Type	Description
TseResponse	A TseResponse 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
ISwissbitCommunication	swissbitCommunication	
ILogger	logger	
string	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
string	tseSerial	The configured serial of the tse.
ILogger	logger	The appropriate logger for logging purposes.
Guid	clientId	The id of the fiscal client (UniqueClientId).
string	uniqueCashRegisterId	The id of the cashregister which should be connected to the tse.
string	adminPuk	The admin puk to access special features of the tse.
string	adminPin	The admin pin to access special features of the tse.
string	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

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](#).

Time Update Required

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

[DateTime?](#)

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
ISwissbitStatus	

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
Guid	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

Type	Description
TseResponse	A TseResponse 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
Guid	exportId	The export id
bool	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
Stream	exportStream	
string	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).

Returns

Type	Description
Guid	An export id which can be used to start method CommitTarExport(Guid, bool) . This export id is used to remember special values for the method CommitTarExport(Guid, bool) . You can return NewGuid() 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
Guid	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
TseResponse	A TseResponse 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
string	updateFile	The firmware update file.
Version	newVersion	The new firmware version.

Returns

Type	Description
bool	True if version update was done; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>updateFile</code> is set to null or Empty .
FileNotFoundException	Thrown if <code>updateFile</code> is not found.
InvalidDataException	Thrown if transfer of firmware fails.
InvalidOperationException	Thrown if admin login is not possible.
ApplicationException	Thrown if firmware update cannot be applied.

GetInitialAdminPin(string)

Declaration

```
public string GetInitialAdminPin(string seed)
```

Parameters

Type Name Description

[string](#) seed

Returns

Type Description

[string](#)

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

[string](#) seed The security seed

Returns

Type Description

[string](#) The initial admin puk as string.

GetInitialTimeAdminPin(string)

Declaration

```
public string GetInitialTimeAdminPin(string seed)
```

Parameters

Type Name Description

[string](#) seed

Returns

Type Description

[string](#)

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 tseId, string tseName, string tseType, string tseVersion)
```

Parameters

Type	Name	Description
string	<code>uniqueCashRegisterId</code>	The unique cash register id.
string	<code>processType</code>	The process type according to DS-FinVK
string	<code>processData</code>	The according process data.
int	<code>transactionNumber</code>	The transaction number given by the tse.
long	<code>signatureCounter</code>	The signature counter of the tse.
DateTimeOffset	<code>startTime</code>	The start time of the transaction.
DateTimeOffset	<code>endTime</code>	The end time of the transaction.

Type	Name	Description
string	tseHashAlgorithm	The used hash algorithm of the tse.
string	tseTimeFormat	The used time format of the tse.
string	signatureString	The signature of the signature process of the tse.
string	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
Guid	clientId	The client where the tse configuration should occur.
string	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
TseConfiguration	configuration	The configuration properties to configure the tse.
Action<TseConfiguration>	storeTseConfiguration	An action to store the tse configuration back during initialization.
bool	replace	True if any existing tse should be replaced; otherwise false.

Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

Exceptions

Type	Condition
ArgumentNullException	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
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

Type Name Description

[string](#) adminPin

Returns**Type Description**

[List<string>](#)

Exceptions**Type Condition**

[ArgumentNullException](#) Thrown if parameter `adminPin` 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**

[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).

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 = "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.

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**

[Func<ITseCommandResponse>](#) securedCommand The command to execute against the tse.

Returns**Type Description**

[ITseCommandResponse](#) The command response ([TseCommandResponse](#)).

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
------	-----------

[ArgumentNullException](#) Thrown if parameter `securedCommand` 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
------	------	-------------

[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.

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
------	------	-------------

[Guid](#) `clientId` The client where the transaction should occur.

[string](#) `processType` The processType of the started transaction; mapped out of the document type.

Returns

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

[TseResponse](#) A [TseResponse](#) 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
------	------	-------------

[string](#) `hex`

Returns

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

[byte\[\]](#)

UpdateTime()

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
string	storagePath	
Guid	clientId	
string	uniqueCashRegisterId	
ILogger	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
Guid	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

Type Description

[TseResponse](#) A [TseResponse](#) 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
------	------	-------------

Guid	exportId	The export id
----------------------	----------	---------------

bool	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
------	------	-------------

Stream	outputStream	The stream to write the tar data.
------------------------	--------------	-----------------------------------

string	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).
------------------------	----------	--

Returns

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

Guid	An export id which can be used to start method CommitTarExport(Guid, bool) . This export id is used to remember special values for the method CommitTarExport(Guid, bool) . You can return NewGuid() 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
------	------	-------------

Guid	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
------	-------------

TseResponse	A TseResponse 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
Guid	clientId	The client where the tse configuration should occur.
string	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
TseConfiguration	configuration	The configuration properties to configure the tse.
Action<TseConfiguration>	storeTseConfiguration	An action to store the tse configuration back during initialization.
bool	replace	True if any existing tse should be replaced; otherwise false.

Overrides

[TseBase.Initialize\(Guid, string, TseConfiguration, Action<TseConfiguration>, bool\)](#)

Exceptions

Type	Condition
ArgumentNullException	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
List<string>	A list of Guid 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
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).

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
Guid	clientId	The client where the transaction should occur.

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

string	processType	The processType of the started transaction; mapped out of the document type.
------------------------	-------------	--

Returns

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

TseResponse	A TseResponse 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
Guid	clientId	The assigned client for the tse.
ILogger	logger	The logger to log.
string	uniqueCashRegisterId	The id of the cashregister which should be connected to the tse.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to Empty .
ArgumentNullException	Thrown if parameter <code>uniqueCashRegisterId</code> is set to null or Empty .

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
Guid	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.
long	fiscalDocumentStartTime	

Returns

Type	Description
TseFinishResponse	A TseResponse object representing the response of the tse.

Exceptions

Type	Condition
ArgumentException	Thrown if the supplied <code>clientId</code> does not match ClientId .
ArgumentOutOfRangeException	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".
InvalidProgramException	Thrown if the tse was not initialized yet.
InvalidOperationException	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
Guid	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

Type	Description
TseResponse	A TseResponse 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
Guid	exportId	The export id

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

bool	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
------	------	-------------

Stream	outputStream	The stream to write the tar data.
------------------------	--------------	-----------------------------------

string	adminPin	Optional. Admin pin for admin user (if stored admin pin should not be used).
------------------------	----------	--

Returns

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

Guid	An export id which can be used to start method CommitTarExport(Guid, bool) . This export id is used to remember special values for the method CommitTarExport(Guid, bool) . You can return NewGuid() 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
------	------	-------------

Guid	clientId	The client where the transaction should occur.
----------------------	----------	--

TseRequest	request	The appropriate request of the transaction. Possible requests are TseReceipt , TseOrder or TseOtherTransaction .
----------------------------	---------	--

long	fiscalDocumentStartTime	
----------------------	-------------------------	--

Returns

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

TseFinishResponse	A TseResponse object representing the response of the tse.
-----------------------------------	--

Exceptions

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

ArgumentException	Thrown if the supplied <code>clientId</code> does not match ClientId .
-----------------------------------	--

InvalidProgramException	Thrown if the tse was not initialized yet.
---	--

InvalidOperationException	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
------	------	-------------

Guid	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
------	-------------

[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 qrCode, string qrCodeData, string qrCodeImage)
```

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
DateTimeOffset	startTime	The start time of the transaction.
DateTimeOffset	endTime	The end time of the transaction.
string	tseHashAlgorithm	The used hash algorithm of the tse.
string	tseTimeFormat	The used time format of the tse.
string	signatureString	The signature of the signature process of the tse.
string	tsePublicKeyString	The public key string of the tse in base 64 encoding.

Returns

Type	Description
string	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
List<TseDriverInfo>	

GetTseDriverInfos(TseDriver)

Driver info of the requested tse driver.

Declaration

```
public static TseDriverInfo GetTseDriverInfos(TseDriver driver)
```

Parameters

Type	Name	Description
TseDriver	driver	The requested driver.

Returns

Type	Description
TseDriverInfo	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
Guid	clientId	The client where the tse configuration should occur.
string	uniqueCashRegisterId	A unique name for the cash register which will be registered at the tse.
TseConfiguration	configuration	The configuration properties to configure the tse.
Action<TseConfiguration>	storeTseConfiguration	An action to store the tse configuration back during initialization.
bool	replace	True if any existing tse should be replaced; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	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
ArgumentException	Thrown if the supplied <code>clientId</code> does not match ClientId .
InvalidProgramException	Thrown if the tse was not initialized yet.
InvalidOperationException	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
Guid	clientId	The client where the transaction should occur.
string	processType	The processType of the started transaction; mapped out of the document type.

Returns

Type	Description
TseResponse	A TseResponse object representing the response of the tse.

Update Time()

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
------	-------------

[DateTime?](#)

TseFailureDateTime

The failure date from the tse.

Declaration

```
public DateTime? TseFailureDateTime { get; set; }
```

Property Value

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

[DateTime?](#)

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
------	-------------

ArrayData[]	
-----------------------------	--

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
string	apiKey	The api key for the access to the fiskaly api.
string	apiSecret	The api secret to access the fiskaly api.
ILogger	logger	The logger for this class.
string	baseAddress	The base address for the fiskaly connection (to connect middleware or management api).
int	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
ArgumentNullException	Thrown if <code>apiKey</code> , <code>apiSecret</code> or <code>logger</code> are set to null (or empty string).
ArgumentNullException	Thrown if parameter <code>baseAddress</code> is set to null or Empty .

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

Returns

Type	Description
AuthenticationResponse	An <code>RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorModel>.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
string	key	The key (or also username) for authentication.
string	secret	The secret (or possible also password) for authentication.

Returns

Type	Description
AuthenticationResponse	An <code>RetailForce.Common.RestServiceClient<TAuthenticationResponse, TApiErrorModel>.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
string	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
List<TransactionResponse>	

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
TseRequest	request	The request for the transaction.

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>request</code> is set to null.

TransactionData(string)

Constructor.

Declaration

```
public TransactionData(string processType)
```

Parameters

Type	Name	Description
string	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
Guid	clientId	The client for the transaction.
TransactionState	state	The state for the transaction.

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>clientId</code> is set to Empty .

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
Guid	clientId	The client for the transaction.
TransactionState	state	The state for the transaction.
TseRequest	request	The request for the transaction. Depending on <code>state</code> if necessary. For more information see State .

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>clientId</code> is set to Empty .
ArgumentNullException	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
Guid	clientId	The client for the transaction.
TransactionState	state	The state for the transaction.
string	processType	The processType for the transaction. Possible types are "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>clientId</code> is set to Empty .
ArgumentOutOfRangeException	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
TransactionPayloadSchema	

State

The state for the transaction.

Declaration

```
[JsonConverter(typeof(TransactionStateConverter))]  
[JsonProperty("state")]  
[JsonRequired]  
public TransactionState State { get; }
```

Property Value

Type	Description
TransactionState	

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
TransactionData	data	The data for the request.

Exceptions

Type	Condition
ArgumentNullException	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
------	-------------

<u>TransactionData</u>	
--	--

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

[TransactionResponse.SignatureClass](#)

State

The state of the signed transaction.

Declaration

```
[JsonProperty("state")]  
[JsonConverter(typeof(TransactionStateConverter))]  
public TransactionState State
```

Field Value

Type

Description

[TransactionState](#)

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
Dictionary<string, string>	

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
TseResponse	response	
string	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
int	transactionNumber	The transaction number of the request.
int	transactionRevision	The transaction revision of the request.

Type	Name	Description
List<TseOrder.TseOrderLine>	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
IReadOnlyList<TseOrder.TseOrderLine>	

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).

Declaration

```
public override string ToString()
```

Returns

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

string	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
decimal	quantity	The quantity of the order of this item. For more information see Quantity .
string	itemCaption	The caption of the item. For more information see ItemCaption .
decimal	grossPrice	The gross price of the order of this item. For more information see GrossPrice .

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>itemCaption</code> is set to null or empty string.
ArgumentOutOfRangeException	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).

Declaration

```
public override string ToString()
```

Returns

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

string	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
int	transactionNumber	The transaction number of the request.
int	transactionRevision	The transaction revision of the request.
string	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).

Declaration

```
public override string ToString()
```

Returns

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

string	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
bool	cashPayment	True if the payment was done in cash; otherwise false.
long	amount	The amount of the payment (in the respective currency). The amount is multiplied by 100 (cent representation in eur).
string	currencyIsoCode	The currency iso code for the payment. This must be an iso 4217 currency code. Can be omitted.

Exceptions

Type	Condition
ArgumentOutOfRangeException	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).

Declaration

```
public override string ToString()
```

Returns

Type	Description
string	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
int	transactionNumber	The transaction number of the request.
int	transactionRevision	The transaction revision of the request.
TransactionType	transactionType	The type of the transaction according to regulation of type "Vorgang" of DSFin-VK.
long	tax1	Gross value according to tax rate 19% (common tax rate). EuroCent representation (multiple with 100).
long	tax2	Gross value according to tax rate 7% (reduced tax rate). EuroCent representation (multiple with 100).
long	tax3	Gross value according to "Durchschnittsatz (§24(1)Nr.3 UStG) (10.7%)". EuroCent representation (multiple with 100).
long	tax4	Gross value according to "Durchschnittsatz (§24(1)Nr.1 UStG) (5.5%)". EuroCent representation (multiple with 100).
long	tax5	Gross value according to 0% tax. EuroCent representation (multiple with 100).
TsePayment[]	payments	A list of TsePayment objects representing the payments for this transaction.

Exceptions

Type	Condition
ArgumentOutOfRangeException	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
bool	cashPayment	True if this payment was done by cash; otherwise false.
long	amount	The amount of the payment (multiplied with 100, eg. in EUR this is the cent representation: 3,54 EUR = 354).
string	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
int	transactionNumber	The transaction number of the request.
int	transactionRevision	The transaction revision of the request.

Exceptions

Type	Condition
ArgumentOutOfRangeException	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
-----------	-------------

long 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
------	-------------

string	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
int	transactionNumber	The transaction number of the currently signed transaction.
int	lastTransactionRevision	The transaction revision of the currently signed transaction.
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".
string	processType	The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".
string	signature	The signature of the tss for the signed transaction.
long	signatureCounter	The actual signature counter of the tss after signing the transaction.
long	timeStart	The start time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
long	timeEnd	The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	tseSerial	The serialnumber of the tss module.
string	tseTimeFormat	The time format which is used by the tss.
string	tseHashAlgorithm	The hash algorithm which is used by the tss.
string	tsePublicKey	The public key of the tss.
string	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
------	------	-------------

byte[]	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
-----------	-------------

byte[] buffer	The byte array to decode.
-------------------------------	---------------------------

Returns

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

string	The given byte array decoded to ascii null terminated string.
------------------------	---

Exceptions

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

ArgumentNullException	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
-----------	-------------

int offset	The offset in the byte array to start.
----------------------------	--

int size	The size of the string.
--------------------------	-------------------------

Returns

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

string	The internal byte array at offset with size to ascii string. String is null terminated.
------------------------	---

Exceptions

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

ArgumentOutOfRangeException	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
------	------	-------------

ushort	value	The value to convert.
------------------------	-------	-----------------------

bool	isLittleEndian	True if the exported bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	--

Returns

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

byte []	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
------	------	-------------

uint	value	The value to convert.
----------------------	-------	-----------------------

bool	isLittleEndian	True if the exported bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	--

Returns

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

byte []	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
------	------	-------------

ulong	value	The value to convert.
-----------------------	-------	-----------------------

bool	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
------	------	-------------

byte[]	byteArray	The byte array to shorten up if 0 values are included.
------------------------	-----------	--

Returns

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

byte[]	The bytes in the given array until 0 value is found. If no 0 value is found, whole array is returned.
------------------------	---

Exceptions

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

ArgumentNullException	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
------	------	-------------

int	offset	The offset in the internal ByteArray .
---------------------	--------	--

bool	isLittleEndian	True if the bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	---

Returns

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

uint	The uint interpretation in little endian of the given byte array with offset and size.
----------------------	--

Exceptions

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

ArgumentOutOfRangeException	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
------	------	-------------

int	offset	The offset in the internal ByteArray .
---------------------	--------	--

bool	isLittleEndian	True if the bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	---

Returns

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

ulong	The ulong interpretation in little endian of the given byte array with offset and size.
-----------------------	---

Exceptions

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

ArgumentOutOfRangeException	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
------	------	-------------

int	offset	The offset in the internal ByteArray .
---------------------	--------	--

bool	isLittleEndian	True if the bytes should be interpreted as little endian (default); otherwise false (big endian).
----------------------	----------------	---

Returns

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

ushort	The ushort interpretation in little endian of the given byte array with offset and size.
------------------------	--

Exceptions

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

ArgumentOutOfRangeException	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
string	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

Type	Description
TseResponse	A TseResponse 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
ulong	exportSize	Size of successfully received export data in bytes. Big Endian.

Returns

Type	Description
TseCommandStatusResponse	The command response (TseCommandResponse).

CommandChangePin(int, string, string)

Changes the PIN of the given user.

Declaration

```
TseCommandStatusResponse CommandChangePin(int userId, string currentPin, string newPin)
```

Parameters

Type	Name	Description
int	userId	The userid of the user to change the pin. 0 = unidentified user, 1 = admin, 2 = timeAdmin
string	currentPin	The current pin.
string	newPin	The new pin.

Returns

Type	Description
TseCommandStatusResponse	The command response (TseCommandResponse).

Exceptions

Type	Condition
ArgumentOutOfRangeException	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
ArgumentException	Thrown if parameter <code>currentPin</code> or parameter <code>newPin</code> are not 5 characters long.
ArgumentNullException	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
string	currentPuk	The current puk.
string	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
int	clientOffset	The offset from where the clients should be read.

Returns

Type	Description
TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse	The command response (TseCmdListRegisteredClients.Response).

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
uint	skipTransactionOffset	
string	clientId	ASCII string representing the unique serial number of the client to register.

Returns

Type	Description
TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse	A TseCmdListStartedTransactions.Response object representing the response of the tse.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to null or empty string.
ArgumentException	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
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.
bool	raiseException	Optional. True if the function should raise an exception when CommandResponse is not ExecutionSuccessful ; otherwise false. Default = false.

Returns

Type	Description
ITseCommandResponse	The command response (TseCommandResponse).

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
------	-------------

TseCommandStatusResponse	The command response (TseCommandResponse).
--	--

Exceptions

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

ArgumentNullException	Thrown if parameter <code>clientId</code> is set to null or empty string.
---------------------------------------	---

ArgumentException	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
------	------	-------------

DateTimeOffset	<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.
--------------------------------	------------------------	--

bool	<code>raiseException</code>	Optional. True if the function should raise an exception when <code>CommandResponse</code> is not ExecutionSuccessful ; otherwise false. Default = false.
----------------------	-----------------------------	---

Returns

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

TseCommandStatusResponse	The command response (TseCommandResponse).
--	--

Exceptions

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

ArgumentOutOfRangeException	Thrown if timestamp represents a year before 1970.
---	--

ExportFullTar(Stream)

Declaration

```
ulong ExportFullTar(Stream exportStream)
```

Parameters

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

Stream	<code>exportStream</code>	
------------------------	---------------------------	--

Returns

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

ulong	
-----------------------	--

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
string	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
TseResponse	A TseResponse 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
string	clientId	The clientid of the registered client on the tse.
string	updateFile	The firmware update file.
Version	newVersion	The new firmware version.

Returns

Type	Description
bool	True if version update was done; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>updateFile</code> is set to null or Empty .
FileNotFoundException	Thrown if <code>updateFile</code> is not found.
InvalidDataException	Thrown if transfer of firmware fails.
InvalidOperationException	Thrown if admin login is not possible.
ApplicationException	Thrown if firmware update cannot be applied.

GetSwissbitStatus()

Declaration

```
ISwissbitStatus GetSwissbitStatus()
```

Returns

Type	Description
ISwissbitStatus	

GetTseCertificate()

Declaration

```
byte[] GetTseCertificate()
```

Returns

Type Description

[byte](#)[]

GetTseStatus(Action, TseStatus)

Declaration

```
TseStatus GetTseStatus(Action setStatusConnected, TseStatus tseStatus)
```

Parameters

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

Action	setStatusConnected	
------------------------	--------------------	--

TseStatus	tseStatus	
---------------------------	-----------	--

Returns

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

TseStatus	
---------------------------	--

StartTransaction(string, string)

Starts a transaction on the tse.

Declaration

```
TseResponse StartTransaction(string clientId, string processType)
```

Parameters

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

string	clientId	The clientId of the registered client on the tse.
------------------------	----------	---

string	processType	The processType. Has to be empty string.
------------------------	-------------	--

Returns

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

TseResponse	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
------	------	-------------

string	tseId	
------------------------	-------	--

Returns

Type	Description
ISwissbitCommunication	

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
TseCommandStatusResponse	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
string	statusFile	The status file for the tse.
string	communicationFile	The communication file for the tse.
ILogger	logger	The logger for logging purposes.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>statusFile</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>communicationFile</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>logger</code> is set to null.

Fields

FileFlagNoBuffering

Declaration

```
public const FileOptions FileFlagNoBuffering = (FileOptions)536870912
```

Field Value

Type	Description
FileOptions	

Properties

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
string	clientId	The client where the transaction should occur.
int	transactionNumber	The number of the transaction to be canceled.
int	lastRevision	The actual revision of the transaction to be canceled.
string	processType	The type of the canceled transaction.

Returns

Type	Description
TseResponse	A TseResponse 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
------	------	-------------

Type	Name	Description
ulong	exportSize	Size of successfully received export data in bytes. Big Endian.

Returns

Type	Description
TseCommandStatusResponse	The command response (TseCommandResponse).

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
int	userId	The userid of the user to change the pin. 0 = unidentified user, 1 = admin, 2 = timeAdmin
string	currentPin	The current pin.
string	newPin	The new pin.

Returns

Type	Description
TseCommandStatusResponse	The command response (TseCommandResponse).

Exceptions

Type	Condition
ArgumentOutOfRangeException	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
ArgumentException	Thrown if parameter <code>currentPin</code> or parameter <code>newPin</code> are not 5 characters long.
ArgumentNullException	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
string	currentPuk	The current puk.
string	newPuk	The new puk.

Returns

Type	Description
TseCommandStatusResponse	The command response (TseCommandResponse).

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>currentPuk</code> or parameter <code>newPuk</code> are set to null or empty string.
ArgumentException	Thrown if parameter <code>currentPuk</code> or parameter <code>newPuk</code> 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
int	clientOffset	The offset from where the clients should be read.

Returns

Type	Description
TseCmdListRegisteredClients.ITseCmdListRegisteredClientsResponse	The command response (TseCmdListRegisteredClients.Response).

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
uint	skipTransactionOffset	
string	clientId	ASCII string representing the unique serial number of the client to register.

Returns

Type	Description
TseCmdListStartedTransactions.ITseCmdListStartedTransactionsResponse	A TseCmdListStartedTransactions.Response object representing the response of the tse.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to null or empty string.
ArgumentException	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
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.
bool	raiseException	Optional. True if the function should raise an exception when CommandResponse is not ExecutionSuccessful ; otherwise false. Default = false.

Returns

Type	Description
ITseCommandResponse	The command response (TseCommandResponse).

Exceptions

Type	Condition
ArgumentOutOfRangeException	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
ArgumentException	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
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

```
public 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

```
public 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
------	-------------

[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.

CommandUpdateTime(DateTimeOffset, bool)

Updates the time on the tse.

Declaration

```
public TseCommandStatusResponse CommandUpdateTime(DateTimeOffset timeStamp, bool raiseException = false)
```

Parameters

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

Type	Name	Description
DateTimeOffset	timestamp	Timestamp as seconds since Unix Epoch. The timestamp will be interpreted as an unsigned number, which means only dates after 1970 are supported.
bool	raiseException	Optional. True if the function should raise an exception when CommandResponse is not ExecutionSuccessful ; otherwise false. Default = false.

Returns

Type	Description
TseCommandStatusResponse	The command response (TseCommandResponse).

Exceptions

Type	Condition
ArgumentOutOfRangeException	Thrown if timestamp represents a year before 1970.

ExportFullTar(Stream)

Declaration

```
public ulong ExportFullTar(Stream exportStream)
```

Parameters

Type	Name	Description
Stream	exportStream	

Returns

Type Description

[ulong](#)

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
string	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
TseResponse	A TseResponse 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
------	------	-------------

Type	Name	Description
string	clientId	The clientId of the registered client on the tse.
string	updateFile	The firmware update file.
Version	newVersion	The new firmware version.

Returns

Type	Description
bool	True if version update was done; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>updateFile</code> is set to null or Empty .
FileNotFoundException	Thrown if <code>updateFile</code> is not found.
InvalidDataException	Thrown if transfer of firmware fails.
InvalidOperationException	Thrown if admin login is not possible.
ApplicationException	Thrown if firmware update cannot be applied.

GetSwissbitStatus()

Declaration

```
public ISwissbitStatus GetSwissbitStatus()
```

Returns

Type	Description
ISwissbitStatus	

GetTseCertificate()

Declaration

```
public byte[] GetTseCertificate()
```

Returns

Type	Description
byte[]	

GetTseStatus(Action, TseStatus)

Declaration

```
public TseStatus GetTseStatus(Action setStatusConnected, TseStatus tseStatus)
```

Parameters

Type	Name	Description
Action	setStatusConnected	
TseStatus	tseStatus	

Returns

Type	Description
TseStatus	

StartTransaction(string, string)

Starts a transaction on the tse.

Declaration

```
public TseResponse StartTransaction(string clientId, string processType)
```

Parameters

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

Type	Name	Description
string	clientId	The clientId of the registered client on the tse.

[string](#) processType The processType. Has to be empty string.

Returns

Type	Description
TseResponse	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
string	statusFilePath	The path to the status file (include path and filename).
string	communicationFilePath	
byte[]	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
ILogger	logger	The logger to log

Returns

Type	Description
SwissbitHardware	

GetLocalSecuritySystems()

Returns all attached swissbit tse's.

Declaration

```
public static IEnumerable<SwissbitHardwareDevice> GetLocalSecuritySystems()
```

Returns

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

IEnumerable<SwissbitHardwareDevice>	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
bool	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
------	-------------

IEnumerable<SwissbitHardwareDevice>	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
string	statusFile	The status file to read.

Returns

Type	Description
byte[]	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
------	------	-------------

string	tseFile	
------------------------	---------	--

byte []	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
------	------	-------------

byte[]	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
TseCommandStatusResponse	

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
TseCommandResultCode	

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
------	------	-------------

ulong	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
------	-------------

TseCommandStatusResponse[]	
--	--

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
byte[]	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
TseCommandStatusResponse[]	

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
------	------	-------------

int	command	
---------------------	---------	--

Fields

ByteStore

Declaration

```
protected List<byte> ByteStore
```

Field Value

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

List<byte>	
----------------------------------	--

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
------	-------------

TseCommandStatusResponse[]	
--	--

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
------	------	-------------

byte[]	payload	The payload for the response.
------------------------	---------	-------------------------------

Returns

Type	Description
TseCommandResponse	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
int	userId	The userid of the user to change the pin. 0 = unidentified user, 1 = admin, 2 = timeAdmin
string	currentPin	The current pin.

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

string	newPin	The new pin.
------------------------	--------	--------------

Exceptions

Type	Condition
ArgumentOutOfRangeException	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
ArgumentException	Thrown if parameter <code>currentPin</code> or parameter <code>newPin</code> are not 5 characters long.
ArgumentNullException	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
TseCommandStatusResponse[]	

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
------	------	-------------

string	currentPuk	The current puk.
------------------------	------------	------------------

string	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
byte[]	payload	The payload for the response.

Returns

Type	Description
TseCommandResponse	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
------	------	-------------

byte[]	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
------	-------------

DateTimeOffset	
--------------------------------	--

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
TransactionType	transactionType	The type of the transaction.
string	clientId	The client id (register) for the transaction.
ulong	transactionNumber	The transaction number
ulong	processDataLength	The length of the process data to store.
ulong	processTypeLength	The length of the process type to store.
string	processType	The process type of the process.
bool	highspeed	True if highspeed mode should be used (default); otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>clientId</code> or parameter <code>processType</code> are set to null or empty string.
ArgumentException	Thrown if length of parameter <code>clientId</code> exceeds 30 characters or if transaction type is TransactionStart and parameter <code>transactionNumber</code> is not 0.
ArgumentOutOfRangeException	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
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.

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
------	------	-------------

byte[]	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
------	-------------

TseCommandStatusResponse[]	
--	--

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.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 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
TseCommandStatusResponse[]	

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
------	-------------

TseCommandStatusResponse[]	
--	--

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
string	clientId ASCII string representing the unique serial number of the client to register.

Exceptions

Type	Condition
ArgumentNullException	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
------	-------------

TseCommandStatusResponse[]	
--	--

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
------	-------------

TseCommandStatusResponse[]	
--	--

Overrides

[TseCmdBase.PossibleErrorCodes](#)

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
TseCommandStatusResponse[]	

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
------	-------------

TseCommandStatusResponse[]	
--	--

Overrides

TseCmdBase.PossibleErrorCodes	
---	--

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
------	-------------

TseCommandStatusResponse[]	
--	--

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
uint	firmwareUpdatePackageSize	Total size of the firmware package that has been transferred with TSE Firmware Up- date Transfer. Big Endian.

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 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
uint	chunkOffset	Offset in the firmware package where Chunk Data is stored. Big Endian.
ushort	chunkLength	Size of the current chunk in bytes. Big Endian.
byte[]	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
-----------	-------------

string	clientId ASCII string representing the unique serial number of the client to register.
------------------------	--

Exceptions

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

ArgumentNullException	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
uint	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
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

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
byte[]	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
TseCommandStatusResponse[]	

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
------	------	-------------

int	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
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 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
------	-------------

List<string>	
------------------------------------	--

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
byte[]	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
uint	skipTransactionOffset	
string	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
------	-------------

List<ulong>	
-----------------------------------	--

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
byte[]	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
-----------	-------------

int	userId The userid for logout.
---------------------	-------------------------------

Exceptions

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

ArgumentOutOfRangeException	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
TseCommandStatusResponse[]	

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
TseCommandStatusResponse[]	

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
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.

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
------	------	-------------

byte[]	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
-----------	-------------

string	clientId ASCII string representing the unique serial number of the client to register.
------------------------	--

Exceptions

Type	Condition
ArgumentNullException	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
ulong	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.
ulong	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.
ulong	transactionNumberStart	Start transaction number (inclusive). Big Endian.
ulong	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.
string	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
ArgumentNullException	Thrown if parameter <code>clientId</code> is set to null or empty string.
ArgumentException	Thrown if parameter <code>clientId</code> is longer than 30 characters.

Properties

Possible Error Codes

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 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
TseCommandStatusResponse[]	

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
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.

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
------	------	-------------

byte[]	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
-----------	-------------

int <code>userId</code>	The user to unblock.
---	----------------------

string <code>puk</code>	The administrative puk to authorise this transaction.
---	---

string <code>pin</code>	The new pin for the user.
---	---------------------------

Exceptions

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

ArgumentOutOfRangeException	Thrown if parameter <code>userId</code> is not one of this values: 0, 1, 2.
---	---

ArgumentNullException	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
------	-------------

TseCommandStatusResponse[]	
--	--

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.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 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 affects 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
DateTimeOffset	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
ArgumentOutOfRangeException	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
TseCommandStatusResponse[]	

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
------	------	-------------

byte[]	responseBytes	Response bytes of the tse. Must be an array of length 512.
------------------------	---------------	--

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>responseBytes</code> is set to null.
ArgumentException	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
TseCommandStatusResponse	

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
TseCommandResultCode	

Methods

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\(\)](#)

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

Name	Description
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

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

```
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
------	------	-------------

byte[]	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
------	-------------

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

```
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
-------------	--------------------

string	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
------	-------------

DateTime	
--------------------------	--

SerialNumber

Declaration

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

Property Value

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

string	
------------------------	--

SignatureCounter

Declaration

```
public long SignatureCounter { get; set; }
```

Property Value

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

long	
----------------------	--

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
FiscalCountry	

WebServiceUrl

The url of the bbox web service.

Declaration

```
public string WebServiceUrl { 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
IFiscalImplementationConfiguration	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 <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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
string	fiscalDocumentNumber	The fiscalisation document number as string.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific)
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
List<DocumentType>	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PayOutType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PayOutType>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.SupportedPayOutTypes](#)

SupportedPaymentTypes

Returns a list of all supported payment types.

Declaration

```
public override List<PaymentType> SupportedPaymentTypes { get; }
```

Property Value

Type	Description
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<HungarianFiscalisationRequiredAttribute>.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<HungarianFiscalisationRequiredAttribute>.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<HungarianFiscalisationRequiredAttribute>.SurchargesPossible](#)

TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

Type	Description
Vat	

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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
ReadOnlyDictionary<BarcodeType, barcodeTypes>	

DocumentTypeDictionary

Declaration

```
public static Dictionary<DocumentType, documentType> DocumentTypeDictionary
```

Field Value

Type	Description
Dictionary<DocumentType, documentType>	

PaymentOtherNameDictionary

Declaration

```
public static Dictionary<PaymentType, string> PaymentOtherNameDictionary
```

Field Value

Type	Description
Dictionary<PaymentType, string>	

PaymentTypeDictionary

Declaration

```
public static Dictionary<PaymentType, paymentType> PaymentTypeDictionary
```

Field Value

Type	Description
Dictionary<PaymentType, paymentType>	

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

Type	Description
ReadOnlyCollection<Vat>	

Methods

GetMiddlewareAmount(decimal)

Declaration

```
public static double GetMiddlewareAmount(this decimal amount)
```

Parameters

Type	Name	Description
decimal	amount	

Returns

Type	Description
double	

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleHungary(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string :
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Properties

FiscalClientStatus

Returns the status of the fiscal client.

Declaration

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

Property Value

Type	Description
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
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, 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
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, 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
InvalidOperationException	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
string	line1	The first line to display.
string	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
InvalidOperationException	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
DateTimeOffset?	lastClosingDateInterval	Out parameter. Returns the next necessary closing time.
DateTimeOffset?	checkTime	The time when the check should be performed.

Returns

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

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.

Type	Name	Description
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, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

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

[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
InvalidOperationException	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
int	fiscalDay	The fiscal day to print the document list.

Remarks

Following button must be added to ui: Bizonylat-összesítő nyomtatása

Exceptions

Type	Condition
InvalidOperationException	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
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, 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
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, HungarianFiscalisationRequiredAttribute, HungarianFiscalProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

Implements

[IFiscalModullImplementation](#)
[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](#)

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[DirectIORequest](#)

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[DisableUSBRequest](#)

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[DocumentContainer](#)

[DocumentRequest](#)

[DocumentResponse](#)

[DownloadElectronicJornalRequest](#)

[DownloadElectronicJornalResponse](#)

[EnableUSBRequest](#)

[EnableUSBResponse](#)

[EndOfAeeOperationRequest](#)

[EndOfAeeOperationResponse](#)

[FreeLine](#)

[GetAdeleInfoRequest](#)

[GetAdeleInfoResponse](#)

[GetClosureDataRequest](#)

[GetClosureDataResponse](#)

[GetCustomerByTaxIdRequest](#)

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[PingRequest](#)

[PingResponse](#)

[PrintAEEInfoRequest](#)

[PrintAEEInfoResponse](#)

[PrintDocumentListRequest](#)

[PrintDocumentListResponse](#)

[PrintFiscalMemoryListRequest](#)

[PrintFiscalMemoryListResponse](#)

[PrintFiscalMemoryListbyZRequest](#)

[PrintFiscalMemoryListbyZResponse](#)

[PrintMonthlyServiceChargeReportRequest](#)

[PrintMonthlyServiceChargeReportResponse](#)

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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
BlockSystemRequest	request	

Returns

Type	Description
Task<BlockSystemResponse>	

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
CashReport2Request	request	

Returns

Type	Description
Task<CashReport2Response>	

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
CashReportRequest	request	

Returns

Type	Description
Task<CashReportResponse>	

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
CloseFiscalDayRequest	request	

Returns

Type	Description
Task<CloseFiscalDayResponse>	

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
CloseServiceModeRequest	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
ContinueOfAeeOperationRequest	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
CustomerDisplayShowitemRequest	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
DeletePendingDocumentsRequest	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
DirectCommandRequest	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
DirectIORequest	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
DisableUSBRequest	request	

Returns

Type	Description
Task<DisableUSBResponse>	

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
DocumentRequest	request	

Returns

Type	Description
Task<DocumentResponse>	

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
DownloadElectronicJornalRequest	request	

Returns

Type	Description
Task<DownloadElectronicJornalResponse>	

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
EnableUSBRequest	request	

Returns

Type	Description
Task<EnableUSBResponse>	

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
EndOfAeeOperationRequest	request	

Returns

Type	Description
Task<EndOfAeeOperationResponse>	

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
GetAdeleInfoRequest	request	

Returns

Type	Description
Task<GetAdeleInfoResponse>	

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
GetClosureDataRequest	request	

Returns

Type	Description
Task<GetClosureDataResponse>	

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
GetCustomerByTaxIdRequest	request	

Returns

Type	Description
Task<GetCustomerByTaxIdResponse>	

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
GetDailyDocumentsRequest	request	

Returns

Type	Description
Task<GetDailyDocumentsResponse>	

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
GetDocumentInfoRequest	request	

Returns

Type	Description
Task<GetDocumentInfoResponse>	

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
GetIdenDataRequest	request	

Returns

Type	Description
Task<GetIdenDataResponse>	

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
GetLedStateRequest	request	

Returns

Type	Description
Task<GetLedStateResponse>	

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
GetMiddlewareParameterRequest	request	

Returns

Type	Description
Task<GetMiddlewareParameterResponse>	

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
GetServiceTokenRequest	request	

Returns

Type	Description
Task<GetServiceTokenResponse>	

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
LightCOMmandRequest	request	

Returns

Type	Description
Task<LightCOMmandResponse>	

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
LoginCashierRequest	request	

Returns

Type	Description
Task<LoginCashierResponse>	

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
OpenDrawerRequest	request	

Returns

Type	Description
Task<OpenDrawerResponse>	

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
PersonalizationRequest	request	

Returns

Type	Description
Task<PersonalizationResponse>	

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
PingRequest	request	

Returns

Type	Description
Task<PingResponse>	

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
PrintAEEInfoRequest	request	

Returns

Type	Description
Task<PrintAEEInfoResponse>	

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
PrintDocumentListRequest	request	

Returns

Type	Description
Task<PrintDocumentListResponse>	

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
PrintFiscalMemoryListRequest	request	

Returns

Type	Description
Task<PrintFiscalMemoryListResponse>	

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
PrintFiscalMemoryListbyZRequest	request	

Returns

Type	Description
Task<PrintFiscalMemoryListbyZResponse>	

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
PrintMonthlyServiceChargeReportRequest	request	

Returns

Type	Description
Task<PrintMonthlyServiceChargeReportResponse>	

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
PrintReceiptCopyRequest	request	

Returns

Type	Description
Task<PrintReceiptCopyResponse>	

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
RequestFirmwareRequest	request	

Returns

Type	Description
Task<RequestFirmwareResponse>	

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
RestartAEERequest	request	

Returns

Type	Description
Task<RestartAEEResponse>	

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
SetUUCRequest	request	

Returns

Type	Description
Task<SetUUCResponse>	

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
StartComLogRequest	request	

Returns

Type	Description
Task<StartComLogResponse>	

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
StartServiceModeRequest	request	

Returns

Type	Description
Task<StartServiceModeResponse>	

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
UnblockSystemRequest	request	

Returns

Type	Description
Task<UnblockSystemResponse>	

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
WriteCustomerDisplayRequest	request	

Returns

Type	Description
Task<WriteCustomerDisplayResponse>	

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
getDrawerContentRequest	request	

Returns

Type	Description
Task<getDrawerContentResponse>	

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
getModemDetailsRequest	request	

Returns

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

Type	Description
Task<getModemDetailsResponse>	

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
AdeleServiceClient.EndpointConfiguration	endpointConfiguration	

AdeleServiceClient(EndpointConfiguration, EndpointAddress)

Declaration

```
public AdeleServiceClient(AdeleServiceClient.EndpointConfiguration endpointConfiguration, EndpointAddress remoteAddress)
```

Parameters

Type	Name	Description
AdeleServiceClient.EndpointConfiguration	endpointConfiguration	
EndpointAddress	remoteAddress	

AdeleServiceClient(EndpointConfiguration, string)

Declaration

```
public AdeleServiceClient(AdeleServiceClient.EndpointConfiguration endpointConfiguration, string remoteAddress)
```

Parameters

Type	Name	Description
AdeleServiceClient.EndpointConfiguration	endpointConfiguration	
string	remoteAddress	

AdeleServiceClient(Binding, EndpointAddress)

Declaration

```
public AdeleServiceClient(Binding binding, EndpointAddress remoteAddress)
```

Parameters

Type	Name	Description
Binding	binding	
EndpointAddress	remoteAddress	

Methods

BlockSystemAsync()

Declaration

```
public Task<BlockSystemResponse> BlockSystemAsync()
```

Returns

Type	Description
Task<BlockSystemResponse>	

CashReport2Async(FreeLine[], bool)

Declaration

```
public Task<CashReport2Response> CashReport2Async(FreeLine[] arg0, bool arg1)
```

Parameters

Type	Name	Description
FreeLine[]	arg0	
bool	arg1	

Returns

Type	Description
Task<CashReport2Response>	

CashReportAsync()

Declaration

```
public Task<CashReportResponse> CashReportAsync()
```

Returns

Type	Description
Task<CashReportResponse>	

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
Task<DeletePendingDocumentsResponse>	

DirectCommandAsync(string)

Declaration

```
public Task<DirectCommandResponse> DirectCommandAsync (string arg0)
```

Parameters

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

string	arg0	
------------------------	------	--

Returns

Type	Description
Task<DirectCommandResponse>	

DirectIOAsync(string)

Declaration

```
public Task<DirectIOResponse> DirectIOAsync (string arg0)
```

Parameters

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

string	arg0	
------------------------	------	--

Returns

Type	Description
Task<DirectIOResponse>	

DisableUSBAsync()

Declaration

```
public Task<DisableUSBResponse> DisableUSBAsync ()
```

Returns

Type	Description
Task<DisableUSBResponse>	

DocumentAsync(DocumentContainer)

Declaration

```
public Task<DocumentResponse> DocumentAsync (DocumentContainer arg0)
```

Parameters

Type	Name	Description
DocumentContainer	arg0	

Returns

Type	Description
Task<DocumentResponse>	

DownloadElectronicJorunalAsync(int, string)

Declaration

```
public Task<DownloadElectronicJorunalResponse> DownloadElectronicJorunalAsync (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

[Task<GetCustomerByTaxIdResponse>](#)

GetDailyDocumentsAsync(int)

Declaration

```
public Task<GetDailyDocumentsResponse> GetDailyDocumentsAsync(int arg0)
```

Parameters

Type Name Description

[int](#) arg0

Returns

Type

Description

[Task<GetDailyDocumentsResponse>](#)

GetDocumentInfoAsync(string)

Declaration

```
public Task<GetDocumentInfoResponse> GetDocumentInfoAsync(string arg0)
```

Parameters

Type Name Description

[string](#) arg0

Returns

Type

Description

[Task<GetDocumentInfoResponse>](#)

GetIdenDataAsync()

Declaration

```
public Task<GetIdenDataResponse> GetIdenDataAsync()
```

Returns

Type

Description

[Task<GetIdenDataResponse>](#)

GetLedStateAsync()

Declaration

```
public Task<GetLedStateResponse> GetLedStateAsync()
```

Returns

Type

Description

[Task<GetLedStateResponse>](#)

GetMiddlewareParameterAsync(string, string)

Declaration

```
public Task<GetMiddlewareParameterResponse> GetMiddlewareParameterAsync(string arg0, string arg1)
```

Parameters

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

string	arg0	
------------------------	------	--

string	arg1	
------------------------	------	--

Returns

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

Task<GetMiddlewareParameterResponse>	
--	--

GetServiceTokenAsync(string)

Declaration

```
public Task<GetServiceTokenResponse> GetServiceTokenAsync(string arg0)
```

Parameters

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

string	arg0	
------------------------	------	--

Returns

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

Task<GetServiceTokenResponse>	
---	--

LightCOMmandAsync(string)

Declaration

```
public Task<LightCOMmandResponse> LightCOMmandAsync(string arg0)
```

Parameters

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

string	arg0	
------------------------	------	--

Returns

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

Task<LightCOMmandResponse>	
--	--

LoginCashierAsync(string, string)

Declaration

```
public Task<LoginCashierResponse> LoginCashierAsync(string arg0, string arg1)
```

Parameters

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

string	arg0	
------------------------	------	--

string	arg1	
------------------------	------	--

Returns

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

Task<LoginCashierResponse>	
--	--

OpenAsync()

Declaration

```
public virtual Task OpenAsync()
```

Returns

Type Description

[Task](#)

OpenDrawerAsync()

Declaration

```
public Task<OpenDrawerResponse> OpenDrawerAsync()
```

Returns

Type	Description
Task<OpenDrawerResponse>	

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
Task<PersonalizationResponse>	

PingAsync()

Declaration

```
public Task<PingResponse> PingAsync()
```

Returns

Type	Description
Task<PingResponse>	

PrintAEEInfoAsync()

Declaration

```
public Task<PrintAEEInfoResponse> PrintAEEInfoAsync()
```

Returns

Type	Description
Task<PrintAEEInfoResponse>	

PrintDocumentListAsync(int)

Declaration

```
public Task<PrintDocumentListResponse> PrintDocumentListAsync(int arg0)
```

Parameters

Type Name Description

[int](#) arg0

Returns

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

Type	Description
Task<PrintDocumentListResponse>	

PrintFiscalMemoryListAsync(DateTime, DateTime)

Declaration

```
public Task<PrintFiscalMemoryListResponse> PrintFiscalMemoryListAsync(DateTime arg0, DateTime arg1)
```

Parameters

Type	Name	Description
DateTime	arg0	
DateTime	arg1	

Returns

Type	Description
Task<PrintFiscalMemoryListResponse>	

PrintFiscalMemoryListbyZAsync(int, int)

Declaration

```
public Task<PrintFiscalMemoryListbyZResponse> PrintFiscalMemoryListbyZAsync(int arg0, int arg1)
```

Parameters

Type	Name	Description
int	arg0	
int	arg1	

Returns

Type	Description
Task<PrintFiscalMemoryListbyZResponse>	

PrintMonthlyServiceChargeReportAsync(int, int)

Declaration

```
public Task<PrintMonthlyServiceChargeReportResponse> PrintMonthlyServiceChargeReportAsync(int arg0, int arg1)
```

Parameters

Type	Name	Description
int	arg0	
int	arg1	

Returns

Type	Description
Task<PrintMonthlyServiceChargeReportResponse>	

PrintReceiptCopyAsync(string)

Declaration

```
public Task<PrintReceiptCopyResponse> PrintReceiptCopyAsync(string arg0)
```

Parameters

Type	Name	Description
string	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
Task<StartServiceModeResponse>	

UnblockSystemAsync(string)

Declaration

```
public Task<UnblockSystemResponse> UnblockSystemAsync(string arg0)
```

Parameters

Type Name Description

[string](#) arg0

Returns

Type	Description
Task<UnblockSystemResponse>	

WriteCustomerDisplayAsync(string, string)

Declaration

```
public Task<WriteCustomerDisplayResponse> WriteCustomerDisplayAsync(string arg0, string arg1)
```

Parameters

Type Name Description

[string](#) arg0

[string](#) arg1

Returns

Type	Description
Task<WriteCustomerDisplayResponse>	

getDrawerContentAsync()

Declaration

```
public Task<getDrawerContentResponse> getDrawerContentAsync()
```

Returns

Type	Description
Task<getDrawerContentResponse>	

getModemDetailsAsync()

Declaration

```
public Task<getModemDetailsResponse> getModemDetailsAsync()
```

Returns

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

Type	Description
Task<getModemDetailsResponse>	

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
FreeLine[]	arg0	
bool	arg1	

Fields

arg0

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public FreeLine[] arg0
```

Field Value

Type	Description
FreeLine[]	

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
documentAnswer	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

Field Value

Type	Description
documentAnswer	

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

itemRow	arg0	
-------------------------	------	--

Fields

arg0

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public itemRow arg0
```

Field Value

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

itemRow	
-------------------------	--

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
------	------	-------------

errorType	return	
---------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public errorType @return
```

Field Value

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

errorType	
---------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
DocumentContainer	arg0	

Fields

arg0

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public DocumentContainer arg0
```

Field Value

Type	Description
DocumentContainer	

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
------	------	-------------

documentAnswer	return	
--------------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

Field Value

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

documentAnswer	
--------------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
barcodeAlignments	

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
barcodeHRIPositions	

BarcodeHeight

Declaration

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

Property Value

Type Description

[int](#)

BarcodeType

Declaration

```
public barcodeTypes BarcodeType { get; set; }
```

Property Value

Type	Description
barcodeTypes	

BarcodeWidth

Declaration

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

Property Value

Type Description

[int](#)

FreeLineAlignment

Declaration

```
public freeLineAlignment FreeLineAlignment { get; set; }
```

Property Value

Type	Description
freeLineAlignment	

FreeLineFormat

Declaration

```
public freeLineFormat FreeLineFormat { get; set; }
```

Property Value

Type	Description
freeLineFormat	

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
------	------	-------------

adeleInfo	return	
---------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleInfo @return
```

Field Value

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

adeleInfo	
---------------------------	--

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
------	------	-------------

customer	return	
--------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public customer @return
```

Field Value

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

customer	
--------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
documentAnswer	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

Field Value

Type	Description
documentAnswer	

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
identityData	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public identityData @return
```

Field Value

Type	Description
identityData	

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
aeeLedAnswer	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public aeeLedAnswer @return
```

Field Value

Type	Description
aeeLedAnswer	

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

DateTime	arg0	
--------------------------	------	--

DateTime	arg1	
--------------------------	------	--

Fields

arg0

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public DateTime arg0
```

Field Value

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

DateTime	
--------------------------	--

arg1

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 1)]  
public DateTime arg1
```

Field Value

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

DateTime	
--------------------------	--

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
------	------	-------------

errorType	return	
---------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public errorType @return
```

Field Value

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

errorType	
---------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
documentAnswer	return	

Fields

return

Declaration

```
[MessageBodyMember (Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public documentAnswer @return
```

Field Value

Type	Description
documentAnswer	

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
adeleError	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

Type	Description
adeleError	

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	------	-------------

adeleError	return	
----------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public adeleError @return
```

Field Value

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

adeleError	
----------------------------	--

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
------	-------------

assignType	
----------------------------	--

AssignedSpecified

Declaration

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

Property Value

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

bool	
----------------------	--

CashRegisterCode

Declaration

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

Property Value

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

string	
------------------------	--

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 `aeLedAnswer`

Inheritance

[object](#)
`aeLedAnswer`

Inherited 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 aeLedAnswer
```

Properties

`AdeleError`

Declaration

```
public adeleError AdeleError { get; set; }
```

Property Value

Type	Description
adeleError	

`Green`

Declaration

```
public aeLedState Green { get; set; }
```

Property Value

Type	Description
aeLedState	

`GreenSpecified`

Declaration

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

Property Value

Type	Description
bool	

`Red`

Declaration

```
public aeeLedState Red { get; set; }
```

Property Value

Type	Description
aeeLedState	

RedSpecified

Declaration

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

Property Value

Type	Description
bool	

Yellow

Declaration

```
public aeeLedState Yellow { get; set; }
```

Property Value

Type	Description
aeeLedState	

YellowSpecified

Declaration

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

Property Value

Type	Description
bool	

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	
errEkasaContinueOfAeeOperationFailed	
errEkasaCustomerDataInvalidOrMissing	
errEkasaDUSBFailed	
errEkasaDayCloseRequired	
errEkasaDisplayDisconnected	
errEkasaDocPrintPending	
errEkasaDocumentIsNotPayedTotally	
errEkasaDrawerOpenFailed	
errEkasaEUSBFailed	
errEkasaEndOfAeeOperationFailed	
errEkasaEuroSwitchRequired	
errEkasaEuroSwitchTooEarly	
errEkasaFirmwareUpgradeFinalizationRequired	
errEkasaHealthFundDataInvalidOrMissing	
errEkasaInitializationError	
errEkasaInvalidAmount	
errEkasaInvalidChangeRate	
errEkasaInvalidCopy	
errEkasaInvalidItemName	
errEkasaInvalidItemType	
errEkasaInvalidOrMissingReason	
errEkasaInvalidOriginalDocument	
errEkasaInvalidOriginalDocumentDate	
errEkasaInvalidQuantity	
errEkasaInvalidQuantityUnit	
errEkasaInvalidUnitPrice	
errEkasaInvalidVatRate	
errEkasaItemInvalidOrMissing	
errEkasaItemTotalMustBePositive	
errEkasaItemTypeForbidden	
errEkasaMiddlewareUpdateRequired	

Name	Description
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
------	------	-------------

drawerItem[]	return	
------------------------------	--------	--

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public drawerItem[] @return
```

Field Value

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

drawerItem[]	
------------------------------	--

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
modemDetails	return	

Fields

return

Declaration

```
[MessageBodyMember(Namespace = "http://service.adelehu.bbox.hu/", Order = 0)]  
public modemDetails @return
```

Field Value

Type	Description
modemDetails	

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
FiscalCountry	

FiscalisationType

The type of fiscalisation (rt server/printer). This time only printer is supported.

Declaration

```
public FiscalisationType FiscalisationType { get; set; }
```

Property Value

Type	Description
FiscalisationType	

PrinterConfiguration

The configuration for the printer if fiscalisation is type printer.

Declaration

```
public PrinterConfiguration PrinterConfiguration { get; set; }
```

Property Value

Type	Description
PrinterConfiguration	

Methods

Encrypt(Guid)

Encrypts sensitive data.

Declaration

```
public void Encrypt(Guid uniqueClientId)
```

Parameters

Type	Name	Description
Guid	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
IFiscalImplementationConfiguration	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 <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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
List<EntityParameterInfo>	

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
FiscalCountry	

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
List<DocumentType>	

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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleItaly(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string str
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Fields

ONLYPRINTERFISCALISATIONSSUPPORTED

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
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
DocumentType	documentType	The type of the document for which the document should be created.

Returns

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

Type	Name	Description
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, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
NotSupportedException	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, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
NotSupportedException	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.

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

[TrustedFiscalModuleImplementationBase<ClientConfiguration, ItalianFiscalisationRequiredAttribute, ItalianFiscalProperties>.OpenDrawer\(User\)](#)

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, 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
------	------	-------------

Document	document	
--------------------------	----------	--

bool	reprintDocument	
----------------------	-----------------	--

Returns

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

List<DocumentValidationError>	
---	--

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
ILogger	logger	Reference to logger.
PrinterConfiguration	printerConfiguration	The printer configuration for this Epson printer.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>printerConfiguration</code> is set to null.
ArgumentNullException	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
------	------	-------------

Document	document	The document containing the z-report / end of day document.
--------------------------	----------	---

Returns

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

PrinterResponse	The response from the printer.
---------------------------------	--------------------------------

Exceptions

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

ArgumentNullException	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
------	------	-------------

Document	document	The document containing the z-report / end of day document.
--------------------------	----------	---

Returns

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

PrinterResponse	The response from the printer.
---------------------------------	--------------------------------

Exceptions

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

ArgumentNullException	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
------	------	-------------

Document	<code>document</code>	The document to print to the printer.
--------------------------	-----------------------	---------------------------------------

Returns

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

PrinterResponse	The response from the printer.
---------------------------------	--------------------------------

Exceptions

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

ArgumentNullException	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
------	-------------

List<PrinterDriverInfo>	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
------	------	-------------

User	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
List<ParameterInfo>	

PrinterModel

The model for which the printer driver infos are stored.

Declaration

```
public PrinterModel PrinterModel { get; set; }
```

Property Value

Type	Description
PrinterModel	

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
ILogger	logger	
PrinterConfiguration	printerConfiguration	
string	debugPath	
string	ipAddress	
bool	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
ReadOnlyDictionary<PaymentType, (byte, byte)>	

Methods

BookCashCheck(Document)

Performs an end of day (X-report) on the printer.

Declaration

```
public override PrinterResponse BookCashCheck(Document document)
```

Parameters

Type	Name	Description
Document	document	The document containing the z-report / end of day document.

Returns

Type	Description
PrinterResponse	The response from the printer.

Overrides

[PrinterBase.BookCashCheck\(Document\)](#)

Exceptions

Type	Condition
ArgumentNullException	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
Document	document	The document containing the z-report / end of day document.

Returns

Type	Description
PrinterResponse	The response from the printer.

Overrides

[PrinterBase.BookEndOfDay\(Document\)](#)

Exceptions

Type	Condition
ArgumentNullException	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
Document	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
Dictionary<string, string>	

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](#)

[queryPrinterStatus](#)

[readDevices](#)

[readVersion](#)

[rectangle](#)

[resetPrinter](#)

[response](#)

[saveDevices](#)

[setDate](#)

[setLogoCommand](#)

[setLogoNonFiscal](#)

[sound](#)

[symbol](#)

[text](#)

[vlinebegin](#)

[vlineend](#)

Enums

[ItemChoiceType](#)

[align](#)

[barcodehri](#)

[barcodetype](#)

[clearEFTPOSBufferOptions](#)

[codeTypes](#)

[color](#)

[cuttype](#)

[deviceTypes](#)

[directions](#)

[documentTypes](#)

[font](#)

[fonts](#)

[forms](#)

[graphicFormats](#)

[hRIFonts](#)

[hRIPositions](#)

[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
documentTypes	

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
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 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
clearEFTPOSBufferOptions	

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
clearEFTPOSBufferOptions	

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
ItemChoiceType	

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
logoLocationOptions	

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
soundpattern	

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
FiscalCountry	

IekaPublicKey

The public key of ieka services.

Declaration

```
public string IekaPublicKey { 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
IFiscalImplementationConfiguration	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 <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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	Thrown if a country specific field is missing.

ClosingReportNumber(FiscalResponse)

Declaration

```
public static int ClosingReportNumber(this FiscalResponse fiscalResponse)
```

Parameters

Type	Name	Description
FiscalResponse	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
int	fiscalDocumentNumber	
List<DocumentTaxPosition>	taxPositions	
long	fiscalDocumentStartTime	
string	signature	
string	cashRegisterId	
string	printMessage	
string	errorDescription	
string	securityModuleNr	The number of the security module.
string	receiptCode	The signature value encrypted for fiscal receipt.
string	qrCode	Qr code data for the receipt.
int	closingReportNumber	
string	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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

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

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.ReturnReferenceBehavior](#)

StartDocumentType

Returns the start document type for initialization.

Declaration

```
public override DocumentType StartDocumentType { get; }
```

Property Value

Type	Description
DocumentType	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<LithuaniaFiscalisationRequiredAttribute>.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<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
------	------	-------------

FiscalClient	client	
------------------------------	--------	--

Returns

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

List<ValidationError>	
---	--

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
ReadOnlyCollection<Vat>	

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleLithuania(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse A FiscalResponse 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
ClientConfiguration	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
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, 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
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, 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
DocumentType	documentType	The document type where the symmetric key name is requested.

Returns

Type	Description
string	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
string	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
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, 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
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, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or <code>Empty</code> .
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, LithuaniaFiscalisationRequiredAttribute, LithuaniaFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

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

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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, 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

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
AsnEncodingRules	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
object	obj	The object to write (containing properties decorated with AsnValueAttribute).

Returns

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

byte []	The asn encoded structure.
-------------------------	----------------------------

Exceptions

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

NotSupportedException	Thrown if the type of the AsnValueAttribute is not supported.
---------------------------------------	---

ArgumentNullException	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
AsnType	asnType	The type of the value in the asn structure.
int	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
------	-------------

AsnType	
-------------------------	--

Order

The order of the property in the asn structure.

Declaration

```
public int Order { get; }
```

Property Value

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

int	
---------------------	--

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
DocumentHeader	

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
PICashDetailsAfterOperation[]	

PICashDetailsBeforeOperations

Declaration

```
public PICashDetailsBeforeOperation[] PICashDetailsBeforeOperations { get; set; }
```

Property Value

Type	Description
PICashDetailsBeforeOperation[]	

PICashOperationDetails

Declaration

```
public PICashOperationDetail[] PICashOperationDetails { get; set; }
```

Property Value

Type	Description
PICashOperationDetail[]	

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
------	-------------

DiscountsAdditions	
------------------------------------	--

salesOperationData

Declaration

```
public SalesOperationData salesOperationData { get; set; }
```

Property Value

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

SalesOperationData	
------------------------------------	--

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
------	-------------

Counters	
--------------------------	--

dailyData

Declaration

```
public DailyData dailyData { get; set; }
```

Property Value

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

DailyData	
---------------------------	--

documentFiscalAmounts

Declaration

```
public DocumentFiscalAmounts documentFiscalAmounts { get; set; }
```

Property Value

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

DocumentFiscalAmounts	
---------------------------------------	--

fiscalDayPayments

Declaration

```
public FiscalDayPayments fiscalDayPayments { get; set; }
```

Property Value

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

FiscalDayPayments	
-----------------------------------	--

fiscalDayTaxData

Declaration

```
public FiscalDayTaxData fiscalDayTaxData { get; set; }
```

Property Value

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

FiscalDayTaxData	
----------------------------------	--

otherCashCollectionOperations

Declaration

```
public OtherCashCollectionOperation[] otherCashCollectionOperations { get; set; }
```

Property Value

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

OtherCashCollectionOperation[]	
--	--

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
DocumentHeader	

fiscalDay

Declaration

```
public FiscalDay fiscalDay { get; set; }
```

Property Value

Type	Description
FiscalDay	

packageHeader

Declaration

```
public PackageHeader packageHeader { get; set; }
```

Property Value

Type	Description
PackageHeader	

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
PaymentDetail[]	

payoutDetails

Declaration

```
public PayoutDetail[] payoutDetails { get; set; }
```

Property Value

Type	Description
PayoutDetail[]	

totalAmountToPay

Declaration

```
public decimal totalAmountToPay { get; set; }
```

Property Value

Type	Description
decimal	

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
FiscalDayTaxTable[]	

lastTaxChangeDateTime

Declaration

```
public DateTime lastTaxChangeDateTime { get; set; }
```

Property Value

Type	Description
DateTime	

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

locationLKXS

Declaration

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

Property Value

Type Description

[int](#)

locationLKXSXSpecified

Declaration

```
public bool locationLKXSXSpecified { 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

canceledAmount

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
DocumentAmounts	

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
OtherCashCollectionOperation[]	

receiptPayments

Declaration

```
public ReceiptPayments receiptPayments { get; set; }
```

Property Value

Type	Description
ReceiptPayments	

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
OtherCashCollectionOperation[]	

receiptPayments

Declaration

```
public ReceiptPayments receiptPayments { get; set; }
```

Property Value

Type	Description
ReceiptPayments	

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
------	-------------

TaxTable[]	
----------------------------	--

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
NonFiscalTechnicalRefueling	

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
------	-------------

Document[]	
----------------------------	--

packageHeader

Declaration

```
public PackageHeader packageHeader { get; set; }
```

Property Value

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

PackageHeader	
-------------------------------	--

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
ReceiptPayments	

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
------	-------------

PaymentDetail[]	
---------------------------------	--

payoutDetails

Declaration

```
public PayoutDetail[] payoutDetails { get; set; }
```

Property Value

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

PayoutDetail[]	
--------------------------------	--

totalAmountToPay

Declaration

```
public decimal totalAmountToPay { get; set; }
```

Property Value

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

decimal	
-------------------------	--

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
SalesOperationTaxLine[]	

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
UriStore	urlStore	The UriStore to get the endpoint address. Use static variables from this class for the addresses.
bool	isTest	True if the connection to the test system has to be established; otherwise false.
X509Certificate2	communicationCertificate	The certificate for communication.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>communicationCertificate</code> is set to null.
ArgumentNullException	Thrown if parameter <code>urlStore</code> is set to null.

Fields

CashRegisterRegistrationService

Declaration

```
public static UrlStore CashRegisterRegistrationService
```

Field Value

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

UrlStore	
--------------------------	--

CashRegisterSecurityModuleService

Declaration

```
public static UrlStore CashRegisterSecurityModuleService
```

Field Value

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

UrlStore	
--------------------------	--

DataSendService

Declaration

```
public static UrlStore DataSendService
```

Field Value

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

UrlStore	
--------------------------	--

ServiceClient

Declaration

```
protected TServiceClient ServiceClient
```

Field Value

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

TServiceClient	
----------------	--

ServiceCompanyService

Declaration

```
public static UrlStore ServiceCompanyService
```

Field Value

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

UrlStore	
--------------------------	--

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
bool	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
bool	isTest	True if the connection to the test system has to be established; otherwise false.
X509Certificate2	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
byte[] csrFile	The certificate signing request.

Returns

Type	Description
byte[]	The security module intermediate certificate for the service company.

Exceptions

Type	Condition
InvalidOperationException	Thrown if request ends up with an error.
ArgumentNullException	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
byte[] csrFile	The certificate signing request.

Returns

Type	Description
byte[]	The transport module intermediate certificate for the service company.

Exceptions

Type	Condition
InvalidOperationException	Thrown if request ends up with an error.
ArgumentNullException	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
byte []	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](#)
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[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
CancelCashRegisterRequest	CancelCashRegisterRequest	

Fields

CancelCashRegisterRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public CancelCashRegisterRequest CancelCashRegisterRequest
```

Field Value

Type	Description
CancelCashRegisterRequest	

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
CancelCashRegisterResponse	CancelCashRegisterResponse	

Fields

CancelCashRegisterResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public CancelCashRegisterResponse CancelCashRegisterResponse
```

Field Value

Type	Description
CancelCashRegisterResponse	

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
------	-------------

Problem	
-------------------------	--

problemDate

Declaration

```
public DateTime problemDate { get; set; }
```

Property Value

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

DateTime	
--------------------------	--

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
------	-------------

[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](#)

securityModuleCertificateStatus

Declaration

```
public SecurityModuleCertificateStatusEnum securityModuleCertificateStatus { get; set; }
```

Property Value

Type	Description
SecurityModuleCertificateStatusEnum	

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
TransportModuleCertificateStatusEnum	

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
ChangeServiceCompanyRequest	ChangeServiceCompanyRequest	

Fields

ChangeServiceCompanyRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ChangeServiceCompanyRequest ChangeServiceCompanyRequest
```

Field Value

Type	Description
ChangeServiceCompanyRequest	

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
ChangeServiceCompanyResponse	ChangeServiceCompanyResponse	

Fields

ChangeServiceCompanyResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ChangeServiceCompanyResponse ChangeServiceCompanyResponse
```

Field Value

Type	Description
ChangeServiceCompanyResponse	

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
------	-------------

Description[]	
-------------------------------	--

errorCode

Declaration

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

Property Value

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

string	
------------------------	--

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
GetBusinessAddressRequest	GetBusinessAddressRequest	

Fields

GetBusinessAddressRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetBusinessAddressRequest GetBusinessAddressRequest
```

Field Value

Type	Description
GetBusinessAddressRequest	

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
------	-------------

Address[]	
---------------------------	--

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 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
GetBusinessAddressResponse	GetBusinessAddressResponse	

Fields

GetBusinessAddressResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetBusinessAddressResponse GetBusinessAddressResponse
```

Field Value

Type	Description
GetBusinessAddressResponse	

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
GetServicedCashRegisterInformationByRegistrationIDRequest	GetServicedCashRegisterInformationByRegistrationIDRequest	

Fields

GetServicedCashRegisterInformationByRegistrationIDRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegisterInformationByRegistrationIDRequest GetServicedCashRegisterInformationByRegistrationIDRequest
```

Field Value

Type	Description
GetServicedCashRegisterInformationByRegistrationIDRequest	

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
CashRegisterInformation	

error

Declaration

```
public Error error { get; set; }
```

Property Value

Type Description

[Error](#)

securityModuleCertificateStatus

Declaration

```
public SecurityModuleCertificateStatusEnum securityModuleCertificateStatus { get; set; }
```

Property Value

Type	Description
SecurityModuleCertificateStatusEnum	

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

[DateTime](#)

transportModuleCertificateValidToSpecified

Declaration

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

Property Value

Type Description

[bool](#)

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
GetServicedCashRegisterInformationByRegistrationIDResponse	GetServicedCashRegisterInformationByRegistrationIDResponse	

Fields

GetServicedCashRegisterInformationByRegistrationIDResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegisterInformationByRegistrationIDResponse GetServicedCashRegisterInformationByRegistrationIDResponse
```

Field Value

Type	Description
GetServicedCashRegisterInformationByRegistrationIDResponse	

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
GetServicedCashRegistersRequest	GetServicedCashRegistersRequest	

Fields

GetServicedCashRegistersRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegistersRequest GetServicedCashRegistersRequest
```

Field Value

Type	Description
GetServicedCashRegistersRequest	

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
CashRegisterRegistration[]	

error

Declaration

```
public Error error { get; set; }
```

Property Value

Type Description

[Error](#)

status

Declaration

```
public OperationStatus status { get; set; }
```

Property Value

Type	Description
OperationStatus	

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
GetServicedCashRegistersResponse	GetServicedCashRegistersResponse	

Fields

GetServicedCashRegistersResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedCashRegistersResponse GetServicedCashRegistersResponse
```

Field Value

Type	Description
GetServicedCashRegistersResponse	

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
GetServicedUserCashRegisterInformationByRegistrationIDRequest	GetServicedUserCashRegisterInformationByRegistrationIDRequest	

Fields

GetServicedUserCashRegisterInformationByRegistrationIDRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegisterInformationByRegistrationIDRequest GetServicedUserCashRegisterInformationByRegistrationIDRequest
```

Field Value

Type	Description
GetServicedUserCashRegisterInformationByRegistrationIDRequest	

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
CashRegisterInformation	

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
GetServicedUserCashRegisterInformationByRegistrationIDResponse	GetServicedUserCashRegisterInformationByRegistrationIDResponse	

Fields

GetServicedUserCashRegisterInformationByRegistrationIDResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegisterInformationByRegistrationIDResponse GetServicedUserCashRegisterInformationByRegistrationIDResponse
```

Field Value

Type	Description
GetServicedUserCashRegisterInformationByRegistrationIDResponse	

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
GetServicedUserCashRegistersRequest	GetServicedUserCashRegistersRequest	

Fields

GetServicedUserCashRegistersRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest
```

Field Value

Type	Description
GetServicedUserCashRegistersRequest	

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
CashRegisterRegistration[]	

error

Declaration

```
public Error error { get; set; }
```

Property Value

Type Description

[Error](#)

status

Declaration

```
public OperationStatus status { get; set; }
```

Property Value

Type	Description
OperationStatus	

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
GetServicedUserCashRegistersResponse	GetServicedUserCashRegistersResponse	

Fields

GetServicedUserCashRegistersResponse

Declaration

```
[MessageBodyMember (Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public GetServicedUserCashRegistersResponse GetServicedUserCashRegistersResponse
```

Field Value

Type	Description
GetServicedUserCashRegistersResponse	

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
AddressItem	

street

Declaration

```
public AddressItem street { get; set; }
```

Property Value

Type	Description
AddressItem	

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
RegisterCashRegisterRequest	RegisterCashRegisterRequest	

Fields

RegisterCashRegisterRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterCashRegisterRequest RegisterCashRegisterRequest
```

Field Value

Type	Description
RegisterCashRegisterRequest	

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
CashRegisterInformation	

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
RegisterCashRegisterResponse	RegisterCashRegisterResponse	

Fields

RegisterCashRegisterResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterCashRegisterResponse RegisterCashRegisterResponse
```

Field Value

Type	Description
RegisterCashRegisterResponse	

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
RegisterTransportModuleCertificateRequest	RegisterTransportModuleCertificateRequest	

Fields

RegisterTransportModuleCertificateRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest
```

Field Value

Type	Description
RegisterTransportModuleCertificateRequest	

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
------	-------------

OperationStatus	
---------------------------------	--

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
RegisterTransportModuleCertificateResponse	RegisterTransportModuleCertificateResponse	

Fields

RegisterTransportModuleCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public RegisterTransportModuleCertificateResponse RegisterTransportModuleCertificateResponse
```

Field Value

Type	Description
RegisterTransportModuleCertificateResponse	

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
ReregisterCashRegisterRequest	ReregisterCashRegisterRequest	

Fields

ReregisterCashRegisterRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ReregisterCashRegisterRequest ReregisterCashRegisterRequest
```

Field Value

Type	Description
ReregisterCashRegisterRequest	

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
------	-------------

OperationStatus	
---------------------------------	--

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
ReregisterCashRegisterResponse	ReregisterCashRegisterResponse	

Fields

ReregisterCashRegisterResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public ReregisterCashRegisterResponse ReregisterCashRegisterResponse
```

Field Value

Type	Description
ReregisterCashRegisterResponse	

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
CancelCashRegister	request	

Returns

Type	Description
CancelCashRegisterResponse1	

CancelCashRegisterAsync(CancelCashRegister)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]
Task<CancelCashRegisterResponse1> CancelCashRegisterAsync(CancelCashRegister request)
```

Parameters

Type	Name	Description
CancelCashRegister	request	

Returns

Type	Description
Task<CancelCashRegisterResponse1>	

ChangeServiceCompany(ChangeServiceCompany)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]
[XmlSerializerFormat(SupportFaults = true)]
ChangeServiceCompanyResponse1 ChangeServiceCompany(ChangeServiceCompany request)
```

Parameters

Type	Name	Description
ChangeServiceCompany	request	

Returns

Type	Description
ChangeServiceCompanyResponse1	

ChangeServiceCompanyAsync(ChangeServiceCompany)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]
Task<ChangeServiceCompanyResponse1> ChangeServiceCompanyAsync(ChangeServiceCompany request)
```

Parameters

Type	Name	Description
ChangeServiceCompany	request	

Returns

Type	Description
Task<ChangeServiceCompanyResponse1>	

GetBusinessAddress(GetBusinessAddress)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]
[XmlSerializerFormat(SupportFaults = true)]
GetBusinessAddressResponse1 GetBusinessAddress(GetBusinessAddress request)
```

Parameters

Type	Name	Description
GetBusinessAddress	request	

Returns

Type	Description
GetBusinessAddressResponse1	

GetBusinessAddressAsync(GetBusinessAddress)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetBusinessAddressResponse1> GetBusinessAddressAsync(GetBusinessAddress request)
```

Parameters

Type	Name	Description
GetBusinessAddress	request	

Returns

Type	Description
Task<GetBusinessAddressResponse1>	

GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationID)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServicedCashRegisterInformationByRegistrationIDResponse1 GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationID request)
```

Parameters

Type	Name	Description
GetServicedCashRegisterInformationByRegistrationID	request	

Returns

Type	Description
GetServicedCashRegisterInformationByRegistrationIDResponse1	

GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationID)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetServicedCashRegisterInformationByRegistrationIDResponse1> GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationID request)
```

Parameters

Type	Name	Description
GetServicedCashRegisterInformationByRegistrationID	request	

Returns

Type	Description
Task<GetServicedCashRegisterInformationByRegistrationIDResponse1>	

GetServicedCashRegisters(GetServicedCashRegisters)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServicedCashRegistersResponse1 GetServicedCashRegisters(GetServicedCashRegisters request)
```

Parameters

Type	Name	Description
GetServicedCashRegisters	request	

Returns

Type	Description
GetServicedCashRegistersResponse1	

GetServicedCashRegistersAsync(GetServicedCashRegisters)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetServicedCashRegistersResponse1> GetServicedCashRegistersAsync(GetServicedCashRegisters request)
```

Parameters

Type	Name	Description
GetServicedCashRegisters	request	

Returns

Type	Description
Task<GetServicedCashRegistersResponse1>	

GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationID)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServicedUserCashRegisterInformationByRegistrationIDResponse1 GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationID request)
```

Parameters

Type	Name	Description
GetServicedUserCashRegisterInformationByRegistrationID	request	

Returns

Type	Description
GetServicedUserCashRegisterInformationByRegistrationIDResponse1	

GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationID)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<GetServicedUserCashRegisterInformationByRegistrationIDResponse1> GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationID request)
```

Parameters

Type	Name	Description
GetServicedUserCashRegisterInformationByRegistrationID	request	

Returns

Type	Description
Task<GetServicedUserCashRegisterInformationByRegistrationIDResponse1>	

GetServicedUserCashRegisters(GetServicedUserCashRegisters)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
GetServicedUserCashRegistersResponse1 GetServicedUserCashRegisters(GetServicedUserCashRegisters request)
```

Parameters

Type	Name	Description
GetServicedUserCashRegisters	request	

Returns

Type	Description
GetServicedUserCashRegistersResponse1	

GetServicedUserCashRegistersAsync(GetServicedUserCashRegisters)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<GetServicedUserCashRegistersResponse1> GetServicedUserCashRegistersAsync(GetServicedUserCashRegisters request)
```

Parameters

Type	Name	Description
GetServicedUserCashRegisters	request	

Returns

Type	Description
Task<GetServicedUserCashRegistersResponse1>	

RegisterCashRegister(RegisterCashRegister)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
RegisterCashRegisterResponse1 RegisterCashRegister(RegisterCashRegister request)
```

Parameters

Type	Name	Description
RegisterCashRegister	request	

Returns

Type	Description
RegisterCashRegisterResponse1	

RegisterCashRegisterAsync(RegisterCashRegister)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<RegisterCashRegisterResponse1> RegisterCashRegisterAsync(RegisterCashRegister request)
```

Parameters

Type	Name	Description
RegisterCashRegister	request	

Returns

Type	Description
Task<RegisterCashRegisterResponse1>	

RegisterTransportModuleCertificate(RegisterTransportModuleCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
RegisterTransportModuleCertificateResponse1 RegisterTransportModuleCertificate(RegisterTransportModuleCertificate request)
```

Parameters

Type	Name	Description
RegisterTransportModuleCertificate	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)]
ReregisterCashRegisterResponse1 ReregisterCashRegister(ReregisterCashRegister request)
```

Parameters

Type Name Description

[ReregisterCashRegister](#) request

Returns

Type Description

[ReregisterCashRegisterResponse1](#)

ReregisterCashRegisterAsync(ReregisterCashRegister)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<ReregisterCashRegisterResponse1> ReregisterCashRegisterAsync(ReregisterCashRegister request)
```

Parameters

Type Name Description

[ReregisterCashRegister](#) request

Returns

Type Description

[Task<ReregisterCashRegisterResponse1>](#)

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
UpdateCashRegister	request	

Returns

Type	Description
UpdateCashRegisterResponse1	

UpdateCashRegisterAddress(UpdateCashRegisterAddress)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
UpdateCashRegisterAddressResponse1 UpdateCashRegisterAddress (UpdateCashRegisterAddress request)
```

Parameters

Type	Name	Description
UpdateCashRegisterAddress	request	

Returns

Type	Description
UpdateCashRegisterAddressResponse1	

UpdateCashRegisterAddressAsync(UpdateCashRegisterAddress)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<UpdateCashRegisterAddressResponse1> UpdateCashRegisterAddressAsync (UpdateCashRegisterAddress request)
```

Parameters

Type	Name	Description
UpdateCashRegisterAddress	request	

Returns

Type	Description
Task<UpdateCashRegisterAddressResponse1>	

UpdateCashRegisterAsync(UpdateCashRegister)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<UpdateCashRegisterResponse1> UpdateCashRegisterAsync (UpdateCashRegister request)
```

Parameters

Type	Name	Description
UpdateCashRegister	request	

Returns

Type	Description
Task<UpdateCashRegisterResponse1>	

UpdateCashRegisterVersions(UpdateCashRegisterVersions)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
[XmlSerializerFormat(SupportFaults = true)]
UpdateCashRegisterVersionsResponse1 UpdateCashRegisterVersions (UpdateCashRegisterVersions request)
```

Parameters

Type	Name	Description
UpdateCashRegisterVersions	request	

Returns

Type	Description
UpdateCashRegisterVersionsResponse1	

UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersions)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]
Task<UpdateCashRegisterVersionsResponse1> UpdateCashRegisterVersionsAsync (UpdateCashRegisterVersions request)
```

Parameters

Type	Name	Description
UpdateCashRegisterVersions	request	

Returns

Type	Description
Task<UpdateCashRegisterVersionsResponse1>	

UpdateTransportModuleCertificate(UpdateTransportModuleCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
UpdateTransportModuleCertificateResponse1 UpdateTransportModuleCertificate(UpdateTransportModuleCertificate request)
```

Parameters

Type	Name	Description
UpdateTransportModuleCertificate	request	

Returns

Type	Description
UpdateTransportModuleCertificateResponse1	

UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<UpdateTransportModuleCertificateResponse1> UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificate request)
```

Parameters

Type	Name	Description
UpdateTransportModuleCertificate	request	

Returns

Type	Description
Task<UpdateTransportModuleCertificateResponse1>	

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>\(\)](#)
[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
ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration	endpointConfiguration	

ServiceCompanyCashRegisterWebServiceClient(EndpointConfiguration, EndpointAddress)

Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration endpointConfiguration, EndpointAddress remoteAddress)
```

Parameters

Type	Name	Description
ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration	endpointConfiguration	
EndpointAddress	remoteAddress	

ServiceCompanyCashRegisterWebServiceClient(EndpointConfiguration, string)

Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration endpointConfiguration, string remoteAddress)
```

Parameters

Type	Name	Description
ServiceCompanyCashRegisterWebServiceClient.EndpointConfiguration	endpointConfiguration	
string	remoteAddress	

ServiceCompanyCashRegisterWebServiceClient(Binding, EndpointAddress)

Declaration

```
public ServiceCompanyCashRegisterWebServiceClient(Binding binding, EndpointAddress remoteAddress)
```

Parameters

Type	Name	Description
Binding	binding	
EndpointAddress	remoteAddress	

Methods

CancelCashRegister(CancelCashRegisterRequest)

Declaration

```
public CancelCashRegisterResponse CancelCashRegister(CancelCashRegisterRequest CancelCashRegisterRequest)
```

Parameters

Type	Name	Description
CancelCashRegisterRequest	CancelCashRegisterRequest	

Returns

Type	Description
CancelCashRegisterResponse	

CancelCashRegisterAsync(CancelCashRegisterRequest)

Declaration

```
public Task<CancelCashRegisterResponse1> CancelCashRegisterAsync(CancelCashRegisterRequest CancelCashRegisterRequest)
```

Parameters

Type	Name	Description
CancelCashRegisterRequest	CancelCashRegisterRequest	

Returns

Type	Description
Task<CancelCashRegisterResponse1>	

ChangeServiceCompany(ChangeServiceCompanyRequest)

Declaration

```
public ChangeServiceCompanyResponse ChangeServiceCompany(ChangeServiceCompanyRequest ChangeServiceCompanyRequest)
```

Parameters

Type	Name	Description
ChangeServiceCompanyRequest	ChangeServiceCompanyRequest	

Returns

Type	Description
ChangeServiceCompanyResponse	

ChangeServiceCompanyAsync(ChangeServiceCompanyRequest)

Declaration

```
public Task<ChangeServiceCompanyResponse1> ChangeServiceCompanyAsync(ChangeServiceCompanyRequest ChangeServiceCompanyRequest)
```

Parameters

Type	Name	Description
ChangeServiceCompanyRequest	ChangeServiceCompanyRequest	

Returns

Type	Description
Task<ChangeServiceCompanyResponse1>	

GetBusinessAddress(GetBusinessAddressRequest)

Declaration

```
public GetBusinessAddressResponse GetBusinessAddress(GetBusinessAddressRequest GetBusinessAddressRequest)
```

Parameters

Type	Name	Description
GetBusinessAddressRequest	GetBusinessAddressRequest	

Returns

Type	Description
GetBusinessAddressResponse	

GetBusinessAddressAsync(GetBusinessAddressRequest)

Declaration

```
public Task<GetBusinessAddressResponse1> GetBusinessAddressAsync(GetBusinessAddressRequest GetBusinessAddressRequest)
```

Parameters

Type	Name	Description
GetBusinessAddressRequest	GetBusinessAddressRequest	

Returns

Type	Description
Task<GetBusinessAddressResponse1>	

GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationIDRequest)

Declaration
public GetServicedCashRegisterInformationByRegistrationIDResponse GetServicedCashRegisterInformationByRegistrationID(GetServicedCashRegisterInformationByRegistrationIDRequest Get

Parameters

Type	Name	Description
GetServicedCashRegisterInformationByRegistrationIDRequest	GetServicedCashRegisterInformationByRegistrationIDRequest	

Returns

Type	Description
GetServicedCashRegisterInformationByRegistrationIDResponse	

GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationIDRequest)

Declaration
public Task<GetServicedCashRegisterInformationByRegistrationIDResponse> GetServicedCashRegisterInformationByRegistrationIDAsync(GetServicedCashRegisterInformationByRegistrationIDRequest Get

Parameters

Type	Name	Description
GetServicedCashRegisterInformationByRegistrationIDRequest	GetServicedCashRegisterInformationByRegistrationIDRequest	

Returns

Type	Description
Task<GetServicedCashRegisterInformationByRegistrationIDResponse>	

GetServicedCashRegisters(GetServicedCashRegistersRequest)

Declaration
public GetServicedCashRegistersResponse GetServicedCashRegisters(GetServicedCashRegistersRequest GetServicedCashRegistersRequest)

Parameters

Type	Name	Description
GetServicedCashRegistersRequest	GetServicedCashRegistersRequest	

Returns

Type	Description
GetServicedCashRegistersResponse	

GetServicedCashRegistersAsync(GetServicedCashRegistersRequest)

Declaration
public Task<GetServicedCashRegistersResponse> GetServicedCashRegistersAsync(GetServicedCashRegistersRequest GetServicedCashRegistersRequest)

Parameters

Type	Name	Description
GetServicedCashRegistersRequest	GetServicedCashRegistersRequest	

Returns

Type	Description
Task<GetServicedCashRegistersResponse>	

GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationIDRequest)

Declaration
public GetServicedUserCashRegisterInformationByRegistrationIDResponse GetServicedUserCashRegisterInformationByRegistrationID(GetServicedUserCashRegisterInformationByRegistrationIDRequest Get

Parameters

Type	Name	Description
GetServicedUserCashRegisterInformationByRegistrationIDRequest	GetServicedUserCashRegisterInformationByRegistrationIDRequest	

Returns

Type	Description
GetServicedUserCashRegisterInformationByRegistrationIDResponse	

GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationIDRequest)

Declaration
public Task<GetServicedUserCashRegisterInformationByRegistrationIDResponse> GetServicedUserCashRegisterInformationByRegistrationIDAsync(GetServicedUserCashRegisterInformationByRegistrationIDRequest Get

Parameters

Type	Name	Description
GetServicedUserCashRegisterInformationByRegistrationIDRequest	GetServicedUserCashRegisterInformationByRegistrationIDRequest	

Returns

Type	Description
Task<GetServicedUserCashRegisterInformationByRegistrationIDResponse>	

GetServicedUserCashRegisters(GetServicedUserCashRegistersRequest)

Declaration

```
public GetServicedUserCashRegistersResponse GetServicedUserCashRegisters (GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest)
```

Parameters

Type	Name	Description
GetServicedUserCashRegistersRequest	GetServicedUserCashRegistersRequest	

Returns

Type	Description
GetServicedUserCashRegistersResponse	

GetServicedUserCashRegistersAsync(GetServicedUserCashRegistersRequest)**Declaration**

```
public Task<GetServicedUserCashRegistersResponse1> GetServicedUserCashRegistersAsync (GetServicedUserCashRegistersRequest GetServicedUserCashRegistersRequest)
```

Parameters

Type	Name	Description
GetServicedUserCashRegistersRequest	GetServicedUserCashRegistersRequest	

Returns

Type	Description
Task<GetServicedUserCashRegistersResponse1>	

OpenAsync()**Declaration**

```
public virtual Task OpenAsync()
```

Returns**Type Description**

[Task](#)

RegisterCashRegister(RegisterCashRegisterRequest)**Declaration**

```
public RegisterCashRegisterResponse RegisterCashRegister (RegisterCashRegisterRequest RegisterCashRegisterRequest)
```

Parameters

Type	Name	Description
RegisterCashRegisterRequest	RegisterCashRegisterRequest	

Returns

Type	Description
RegisterCashRegisterResponse	

RegisterCashRegisterAsync(RegisterCashRegisterRequest)**Declaration**

```
public Task<RegisterCashRegisterResponse1> RegisterCashRegisterAsync (RegisterCashRegisterRequest RegisterCashRegisterRequest)
```

Parameters

Type	Name	Description
RegisterCashRegisterRequest	RegisterCashRegisterRequest	

Returns

Type	Description
Task<RegisterCashRegisterResponse1>	

RegisterTransportModuleCertificate(RegisterTransportModuleCertificateRequest)**Declaration**

```
public RegisterTransportModuleCertificateResponse RegisterTransportModuleCertificate (RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest)
```

Parameters

Type	Name	Description
RegisterTransportModuleCertificateRequest	RegisterTransportModuleCertificateRequest	

Returns

Type	Description
RegisterTransportModuleCertificateResponse	

RegisterTransportModuleCertificateAsync(RegisterTransportModuleCertificateRequest)**Declaration**

```
public Task<RegisterTransportModuleCertificateResponse1> RegisterTransportModuleCertificateAsync (RegisterTransportModuleCertificateRequest RegisterTransportModuleCertificateRequest)
```

Parameters

Type	Name	Description
RegisterTransportModuleCertificateRequest	RegisterTransportModuleCertificateRequest	

Returns

Type	Description
Task<RegisterTransportModuleCertificateResponse1>	

ReregisterCashRegister(ReregisterCashRegisterRequest)

Declaration

```
public ReregisterCashRegisterResponse ReregisterCashRegister(ReregisterCashRegisterRequest ReregisterCashRegisterRequest)
```

Parameters

Type	Name	Description
ReregisterCashRegisterRequest	ReregisterCashRegisterRequest	

Returns

Type	Description
ReregisterCashRegisterResponse	

ReregisterCashRegisterAsync(ReregisterCashRegisterRequest)

Declaration

```
public Task<ReregisterCashRegisterResponse1> ReregisterCashRegisterAsync(ReregisterCashRegisterRequest ReregisterCashRegisterRequest)
```

Parameters

Type	Name	Description
ReregisterCashRegisterRequest	ReregisterCashRegisterRequest	

Returns

Type	Description
Task<ReregisterCashRegisterResponse1>	

SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWorksRequest)

Declaration

```
public SubmitCashRegisterPreventionWorksResponse SubmitCashRegisterPreventionWork(SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest)
```

Parameters

Type	Name	Description
SubmitCashRegisterPreventionWorksRequest	SubmitCashRegisterPreventionWorksRequest	

Returns

Type	Description
SubmitCashRegisterPreventionWorksResponse	

SubmitCashRegisterPreventionWorkAsync(SubmitCashRegisterPreventionWorksRequest)

Declaration

```
public Task<SubmitCashRegisterPreventionWorkResponse> SubmitCashRegisterPreventionWorkAsync(SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest)
```

Parameters

Type	Name	Description
SubmitCashRegisterPreventionWorksRequest	SubmitCashRegisterPreventionWorksRequest	

Returns

Type	Description
Task<SubmitCashRegisterPreventionWorkResponse>	

UpdateCashRegister(UpdateCashRegisterRequest)

Declaration

```
public UpdateCashRegisterResponse UpdateCashRegister(UpdateCashRegisterRequest UpdateCashRegisterRequest)
```

Parameters

Type	Name	Description
UpdateCashRegisterRequest	UpdateCashRegisterRequest	

Returns

Type	Description
UpdateCashRegisterResponse	

UpdateCashRegisterAddress(UpdateCashRegisterAddressRequest)

Declaration

```
public UpdateCashRegisterAddressResponse UpdateCashRegisterAddress(UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest)
```

Parameters

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

Type	Name	Description
UpdateCashRegisterAddressRequest	UpdateCashRegisterAddressRequest	

Returns

Type	Description
UpdateCashRegisterAddressResponse	

UpdateCashRegisterAddressAsync(UpdateCashRegisterAddressRequest)

Declaration

```
public Task<UpdateCashRegisterAddressResponse> UpdateCashRegisterAddressAsync(UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest)
```

Parameters

Type	Name	Description
UpdateCashRegisterAddressRequest	UpdateCashRegisterAddressRequest	

Returns

Type	Description
Task<UpdateCashRegisterAddressResponse>	

UpdateCashRegisterAsync(UpdateCashRegisterRequest)

Declaration

```
public Task<UpdateCashRegisterResponse> UpdateCashRegisterAsync(UpdateCashRegisterRequest UpdateCashRegisterRequest)
```

Parameters

Type	Name	Description
UpdateCashRegisterRequest	UpdateCashRegisterRequest	

Returns

Type	Description
Task<UpdateCashRegisterResponse>	

UpdateCashRegisterVersions(UpdateCashRegisterVersionsRequest)

Declaration

```
public UpdateCashRegisterVersionsResponse UpdateCashRegisterVersions(UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest)
```

Parameters

Type	Name	Description
UpdateCashRegisterVersionsRequest	UpdateCashRegisterVersionsRequest	

Returns

Type	Description
UpdateCashRegisterVersionsResponse	

UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersionsRequest)

Declaration

```
public Task<UpdateCashRegisterVersionsResponse> UpdateCashRegisterVersionsAsync(UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest)
```

Parameters

Type	Name	Description
UpdateCashRegisterVersionsRequest	UpdateCashRegisterVersionsRequest	

Returns

Type	Description
Task<UpdateCashRegisterVersionsResponse>	

UpdateTransportModuleCertificate(UpdateTransportModuleCertificateRequest)

Declaration

```
public UpdateTransportModuleCertificateResponse UpdateTransportModuleCertificate(UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest)
```

Parameters

Type	Name	Description
UpdateTransportModuleCertificateRequest	UpdateTransportModuleCertificateRequest	

Returns

Type	Description
UpdateTransportModuleCertificateResponse	

UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificateRequest)

Declaration

```
public Task<UpdateTransportModuleCertificateResponse> UpdateTransportModuleCertificateAsync(UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest)
```

Parameters

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

Type	Name	Description
UpdateTransportModuleCertificateRequest	UpdateTransportModuleCertificateRequest	UpdateTransportModuleCertificateRequest

Returns

Type	Description
Task<UpdateTransportModuleCertificateResponse1>	

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
SubmitCashRegisterPreventionWorksRequest	SubmitCashRegisterPreventionWorksRequest	

Fields

SubmitCashRegisterPreventionWorksRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public SubmitCashRegisterPreventionWorksRequest SubmitCashRegisterPreventionWorksRequest
```

Field Value

Type	Description
SubmitCashRegisterPreventionWorksRequest	

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
SubmitCashRegisterPreventionWorksResponse	SubmitCashRegisterPreventionWorksResponse	

Fields

SubmitCashRegisterPreventionWorksResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.iEka.vmi.lt", Order = 0)]  
public SubmitCashRegisterPreventionWorksResponse SubmitCashRegisterPreventionWorksResponse
```

Field Value

Type	Description
SubmitCashRegisterPreventionWorksResponse	

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
UpdateCashRegisterRequest	UpdateCashRegisterRequest	

Fields

UpdateCashRegisterRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterRequest UpdateCashRegisterRequest
```

Field Value

Type	Description
UpdateCashRegisterRequest	

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
UpdateCashRegisterAddressRequest	UpdateCashRegisterAddressRequest	

Fields

UpdateCashRegisterAddressRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterAddressRequest UpdateCashRegisterAddressRequest
```

Field Value

Type	Description
UpdateCashRegisterAddressRequest	

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
UpdateCashRegisterAddressResponse	UpdateCashRegisterAddressResponse	

Fields

UpdateCashRegisterAddressResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterAddressResponse UpdateCashRegisterAddressResponse
```

Field Value

Type	Description
UpdateCashRegisterAddressResponse	

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
UpdateCashRegisterResponse	UpdateCashRegisterResponse	

Fields

UpdateCashRegisterResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterResponse UpdateCashRegisterResponse
```

Field Value

Type	Description
UpdateCashRegisterResponse	

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
UpdateCashRegisterVersionsRequest	UpdateCashRegisterVersionsRequest	

Fields

UpdateCashRegisterVersionsRequest

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterVersionsRequest UpdateCashRegisterVersionsRequest
```

Field Value

Type	Description
UpdateCashRegisterVersionsRequest	

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
UpdateCashRegisterVersionsResponse	UpdateCashRegisterVersionsResponse	

Fields

UpdateCashRegisterVersionsResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateCashRegisterVersionsResponse UpdateCashRegisterVersionsResponse
```

Field Value

Type	Description
UpdateCashRegisterVersionsResponse	

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
UpdateTransportModuleCertificateRequest	UpdateTransportModuleCertificateRequest	

Fields

UpdateTransportModuleCertificateRequest

Declaration

```
[MessageBodyMember (Namespace = "http://cash-register.ieka.vmi.lt", Order = 0)]  
public UpdateTransportModuleCertificateRequest UpdateTransportModuleCertificateRequest
```

Field Value

Type	Description
UpdateTransportModuleCertificateRequest	

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
------	-------------

OperationStatus	
---------------------------------	--

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
UpdateTransportModuleCertificateResponse	UpdateTransportModuleCertificateResponse	

Fields

UpdateTransportModuleCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://cash-register.iEka.vmi.lt", Order = 0)]  
public UpdateTransportModuleCertificateResponse UpdateTransportModuleCertificateResponse
```

Field Value

Type	Description
UpdateTransportModuleCertificateResponse	

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
CancelSecurityModuleIntermediateCertificateRequest	CancelSecurityModuleIntermediateCertificateRequest	

Fields

CancelSecurityModuleIntermediateCertificateRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelSecurityModuleIntermediateCertificateRequest CancelSecurityModuleIntermediateCertificateRequest
```

Field Value

Type	Description
CancelSecurityModuleIntermediateCertificateRequest	

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
------	-------------

DateTime	
--------------------------	--

cancelDateSpecified

Declaration

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

Property Value

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

bool	
----------------------	--

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 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
CancelSecurityModuleIntermediateCertificateResponse	CancelSecurityModuleIntermediateCertificateResponse	

Fields

CancelSecurityModuleIntermediateCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelSecurityModuleIntermediateCertificateResponse CancelSecurityModuleIntermediateCertificateResponse
```

Field Value

Type	Description
CancelSecurityModuleIntermediateCertificateResponse	

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
CancelTransportModuleIntermediateCertificateRequest	CancelTransportModuleIntermediateCertificateRequest	

Fields

CancelTransportModuleIntermediateCertificateRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelTransportModuleIntermediateCertificateRequest CancelTransportModuleIntermediateCertificateRequest
```

Field Value

Type	Description
CancelTransportModuleIntermediateCertificateRequest	

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
------	-------------

DateTime	
--------------------------	--

cancelDateSpecified

Declaration

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

Property Value

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

bool	
----------------------	--

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 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
CancelTransportModuleIntermediateCertificateResponse	CancelTransportModuleIntermediateCertificateResponse	

Fields

CancelTransportModuleIntermediateCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public CancelTransportModuleIntermediateCertificateResponse CancelTransportModuleIntermediateCertificateResponse
```

Field Value

Type	Description
CancelTransportModuleIntermediateCertificateResponse	

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
------	-------------

Version[]	
---------------------------	--

cashRegisterSoftwareVersions

Declaration

```
public Version[] cashRegisterSoftwareVersions { get; set; }
```

Property Value

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

Version[]	
---------------------------	--

modelCategory

Declaration

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

Property Value

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

string	
------------------------	--

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
CashRegisterModelStateEnum	

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](#)

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
------	-------------

Description[]	
-------------------------------	--

errorCode

Declaration

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

Property Value

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

string	
------------------------	--

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
GetCashRegisterModelsRequest	GetCashRegisterModelsRequest	

Fields

GetCashRegisterModelsRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCashRegisterModelsRequest GetCashRegisterModelsRequest
```

Field Value

Type	Description
GetCashRegisterModelsRequest	

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
CashRegisterModel[]	

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 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
GetCashRegisterModelsResponse	GetCashRegisterModelsResponse	

Fields

GetCashRegisterModelsResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCashRegisterModelsResponse GetCashRegisterModelsResponse
```

Field Value

Type	Description
GetCashRegisterModelsResponse	

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
GetCertificatePublicKeyRequest	GetCertificatePublicKeyRequest	

Fields

GetCertificatePublicKeyRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest
```

Field Value

Type	Description
GetCertificatePublicKeyRequest	

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
GetCertificatePublicKeyResponse	GetCertificatePublicKeyResponse	

Fields

GetCertificatePublicKeyResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetCertificatePublicKeyResponse GetCertificatePublicKeyResponse
```

Field Value

Type	Description
GetCertificatePublicKeyResponse	

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
GetSecurityModuleIntermediateCertificateRequest	GetSecurityModuleIntermediateCertificateRequest	

Fields

GetSecurityModuleIntermediateCertificateRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest
```

Field Value

Type	Description
GetSecurityModuleIntermediateCertificateRequest	

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
OperationStatus	

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
GetSecurityModuleIntermediateCertificateResponse	GetSecurityModuleIntermediateCertificateResponse	

Fields

GetSecurityModuleIntermediateCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetSecurityModuleIntermediateCertificateResponse GetSecurityModuleIntermediateCertificateResponse
```

Field Value

Type	Description
GetSecurityModuleIntermediateCertificateResponse	

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
GetServiceOrganizationDataRequest	GetServiceOrganizationDataRequest	

Fields

GetServiceOrganizationDataRequest

Declaration

```
[MessageBodyMember (Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest
```

Field Value

Type	Description
GetServiceOrganizationDataRequest	

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

Type	Description
OperationStatus	

transportModuleIntermediateCertificates

Declaration

```
public Certificate[] transportModuleIntermediateCertificates { get; set; }
```

Property Value

Type	Description
Certificate[]	

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
GetServiceOrganizationDataResponse	GetServiceOrganizationDataResponse	

Fields

GetServiceOrganizationDataResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetServiceOrganizationDataResponse GetServiceOrganizationDataResponse
```

Field Value

Type	Description
GetServiceOrganizationDataResponse	

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
GetTransportModuleIntermediateCertificateRequest	GetTransportModuleIntermediateCertificateRequest	

Fields

GetTransportModuleIntermediateCertificateRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public GetTransportModuleIntermediateCertificateRequest GetTransportModuleIntermediateCertificateRequest
```

Field Value

Type	Description
GetTransportModuleIntermediateCertificateRequest	

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
OperationStatus	

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
GetTransportModuleIntermediateCertificateResponse	GetTransportModuleIntermediateCertificateResponse	

Fields

GetTransportModuleIntermediateCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.iEka.vmi.lt", Order = 0)]  
public GetTransportModuleIntermediateCertificateResponse GetTransportModuleIntermediateCertificateResponse
```

Field Value

Type	Description
GetTransportModuleIntermediateCertificateResponse	

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
ProvideInfoToCrossedOutEmployeeCertificateRequest	ProvideInfoToCrossedOutEmployeeCertificateRequest	

Fields

ProvideInfoToCrossedOutEmployeeCertificateRequest

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.ieka.vmi.lt", Order = 0)]  
public ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCrossedOutEmployeeCertificateRequest
```

Field Value

Type	Description
ProvideInfoToCrossedOutEmployeeCertificateRequest	

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
OperationStatus	

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
ProvideInfoToCrossedOutEmployeeCertificateResponse	ProvideInfoToCrossedOutEmployeeCertificateResponse	

Fields

ProvideInfoToCrossedOutEmployeeCertificateResponse

Declaration

```
[MessageBodyMember(Namespace = "http://service-company.iEka.vmi.lt", Order = 0)]  
public ProvideInfoToCrossedOutEmployeeCertificateResponse ProvideInfoToCrossedOutEmployeeCertificateResponse
```

Field Value

Type	Description
ProvideInfoToCrossedOutEmployeeCertificateResponse	

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
CancelSecurityModuleIntermediateCertificate	request	

Returns

Type	Description
CancelSecurityModuleIntermediateCertificateResponse1	

CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<CancelSecurityModuleIntermediateCertificateResponse1> CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
CancelSecurityModuleIntermediateCertificate	request	

Returns

Type	Description
Task<CancelSecurityModuleIntermediateCertificateResponse1>	

CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
CancelTransportModuleIntermediateCertificateResponse1 CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
CancelTransportModuleIntermediateCertificate	request	

Returns

Type	Description
CancelTransportModuleIntermediateCertificateResponse1	

CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
Task<CancelTransportModuleIntermediateCertificateResponse1> CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
CancelTransportModuleIntermediateCertificate	request	

Returns

Type	Description
Task<CancelTransportModuleIntermediateCertificateResponse1>	

GetCashRegisterModels(GetCashRegisterModels)

Declaration

```
[OperationContract(Action = "", ReplyAction = "**")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetCashRegisterModelsResponse1 GetCashRegisterModels(GetCashRegisterModels request)
```

Parameters

Type	Name	Description
GetCashRegisterModels	request	

Returns

Type	Description
GetCashRegisterModelsResponse1	

GetCashRegisterModelsAsync(GetCashRegisterModels)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetCashRegisterModelsResponse1> GetCashRegisterModelsAsync(GetCashRegisterModels request)
```

Parameters

Type	Name	Description
GetCashRegisterModels	request	

Returns

Type	Description
Task<GetCashRegisterModelsResponse1>	

GetCertificatePublicKey(GetCertificatePublicKey)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetCertificatePublicKeyResponse1 GetCertificatePublicKey(GetCertificatePublicKey request)
```

Parameters

Type	Name	Description
GetCertificatePublicKey	request	

Returns

Type	Description
GetCertificatePublicKeyResponse1	

GetCertificatePublicKeyAsync(GetCertificatePublicKey)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetCertificatePublicKeyResponse1> GetCertificatePublicKeyAsync(GetCertificatePublicKey request)
```

Parameters

Type	Name	Description
GetCertificatePublicKey	request	

Returns

Type	Description
Task<GetCertificatePublicKeyResponse1>	

GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetSecurityModuleIntermediateCertificateResponse1 GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
GetSecurityModuleIntermediateCertificate	request	

Returns

Type	Description
GetSecurityModuleIntermediateCertificateResponse1	

GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificate)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
Task<GetSecurityModuleIntermediateCertificateResponse1> GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificate request)
```

Parameters

Type	Name	Description
GetSecurityModuleIntermediateCertificate	request	

Returns

Type	Description
Task<GetSecurityModuleIntermediateCertificateResponse1>	

GetServiceOrganizationData(GetServiceOrganizationData)

Declaration

```
[OperationContract(Action = "", ReplyAction = "")]  
[XmlSerializerFormat(SupportFaults = true)]  
GetServiceOrganizationDataResponse1 GetServiceOrganizationData(GetServiceOrganizationData request)
```

Parameters

Type	Name	Description
GetServiceOrganizationData	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
ServiceCompanyWebServiceClient.EndpointConfiguration	endpointConfiguration	

ServiceCompanyWebServiceClient(EndpointConfiguration, EndpointAddress)

Declaration

```
public ServiceCompanyWebServiceClient(ServiceCompanyWebServiceClient.EndpointConfiguration endpointConfiguration, EndpointAddress remoteAddress)
```

Parameters

Type	Name	Description
ServiceCompanyWebServiceClient.EndpointConfiguration	endpointConfiguration	
EndpointAddress	remoteAddress	

ServiceCompanyWebServiceClient(EndpointConfiguration, string)

Declaration

```
public ServiceCompanyWebServiceClient(ServiceCompanyWebServiceClient.EndpointConfiguration endpointConfiguration, string remoteAddress)
```

Parameters

Type	Name	Description
ServiceCompanyWebServiceClient.EndpointConfiguration	endpointConfiguration	
string	remoteAddress	

ServiceCompanyWebServiceClient(Binding, EndpointAddress)

Declaration

```
public ServiceCompanyWebServiceClient(Binding binding, EndpointAddress remoteAddress)
```

Parameters

Type	Name	Description
Binding	binding	
EndpointAddress	remoteAddress	

Methods

CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificateRequest)

Declaration

```
public CancelSecurityModuleIntermediateCertificateResponse CancelSecurityModuleIntermediateCertificate(CancelSecurityModuleIntermediateCertificateRequest CancelSecurityModuleInte:
```

Parameters

Type	Name	Description
CancelSecurityModuleIntermediateCertificateRequest	CancelSecurityModuleIntermediateCertificateRequest	

Returns

Type	Description
CancelSecurityModuleIntermediateCertificateResponse	

CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificateRequest)

Declaration

```
public Task<CancelSecurityModuleIntermediateCertificateResponse> CancelSecurityModuleIntermediateCertificateAsync(CancelSecurityModuleIntermediateCertificateRequest CancelSecuri:
```

Parameters

Type	Name	Description
CancelSecurityModuleIntermediateCertificateRequest	CancelSecurityModuleIntermediateCertificateRequest	

Returns

Type	Description
Task<CancelSecurityModuleIntermediateCertificateResponse>	

CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificateRequest)

Declaration

```
public CancelTransportModuleIntermediateCertificateResponse CancelTransportModuleIntermediateCertificate(CancelTransportModuleIntermediateCertificateRequest CancelTransportModule:
```

Parameters

Type	Name	Description
CancelTransportModuleIntermediateCertificateRequest	CancelTransportModuleIntermediateCertificateRequest	

Returns

Type	Description
CancelTransportModuleIntermediateCertificateResponse	

CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificateRequest)

Declaration

```
public Task<CancelTransportModuleIntermediateCertificateResponse> CancelTransportModuleIntermediateCertificateAsync(CancelTransportModuleIntermediateCertificateRequest CancelTra:
```

Parameters

Type	Name	Description
CancelTransportModuleIntermediateCertificateRequest	CancelTransportModuleIntermediateCertificateRequest	

Returns

Type	Description
Task<CancelTransportModuleIntermediateCertificateResponse>	

GetCashRegisterModels(GetCashRegisterModelsRequest)

Declaration

```
public GetCashRegisterModelsResponse GetCashRegisterModels(GetCashRegisterModelsRequest GetCashRegisterModelsRequest)
```

Parameters

Type	Name	Description
GetCashRegisterModelsRequest	GetCashRegisterModelsRequest	

Returns

Type	Description
GetCashRegisterModelsResponse	

GetCashRegisterModelsAsync(GetCashRegisterModelsRequest)

Declaration

```
public Task<GetCashRegisterModelsResponse> GetCashRegisterModelsAsync(GetCashRegisterModelsRequest GetCashRegisterModelsRequest)
```

Parameters

Type	Name	Description
GetCashRegisterModelsRequest	GetCashRegisterModelsRequest	

Returns

Type	Description
Task<GetCashRegisterModelsResponse>	

GetCertificatePublicKey(GetCertificatePublicKeyRequest)

Declaration

```
public GetCertificatePublicKeyResponse GetCertificatePublicKey(GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest)
```

Parameters

Type	Name	Description
GetCertificatePublicKeyRequest	GetCertificatePublicKeyRequest	

Returns

Type	Description
GetCertificatePublicKeyResponse	

GetCertificatePublicKeyAsync(GetCertificatePublicKeyRequest)

Declaration

```
public Task<GetCertificatePublicKeyResponse> GetCertificatePublicKeyAsync(GetCertificatePublicKeyRequest GetCertificatePublicKeyRequest)
```

Parameters

Type	Name	Description
GetCertificatePublicKeyRequest	GetCertificatePublicKeyRequest	

Returns

Type	Description
Task<GetCertificatePublicKeyResponse>	

GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificateRequest)

Declaration

```
public GetSecurityModuleIntermediateCertificateResponse GetSecurityModuleIntermediateCertificate(GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest)
```

Parameters

Type	Name	Description
GetSecurityModuleIntermediateCertificateRequest	GetSecurityModuleIntermediateCertificateRequest	

Returns

Type	Description
GetSecurityModuleIntermediateCertificateResponse	

GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificateRequest)

Declaration

```
public Task<GetSecurityModuleIntermediateCertificateResponse> GetSecurityModuleIntermediateCertificateAsync(GetSecurityModuleIntermediateCertificateRequest GetSecurityModuleIntermediateCertificateRequest)
```

Parameters

Type	Name	Description
GetSecurityModuleIntermediateCertificateRequest	GetSecurityModuleIntermediateCertificateRequest	

Returns

Type	Description
Task<GetSecurityModuleIntermediateCertificateResponse>	

GetServiceOrganizationData(GetServiceOrganizationDataRequest)

Declaration

```
public GetServiceOrganizationDataResponse GetServiceOrganizationData(GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest)
```

Parameters

Type	Name	Description
GetServiceOrganizationDataRequest	GetServiceOrganizationDataRequest	

Returns

Type	Description
GetServiceOrganizationDataResponse	

GetServiceOrganizationDataAsync(GetServiceOrganizationDataRequest)

Declaration

```
public Task<GetServiceOrganizationDataResponse> GetServiceOrganizationDataAsync(GetServiceOrganizationDataRequest GetServiceOrganizationDataRequest)
```

Parameters

Type	Name	Description
GetServiceOrganizationDataRequest	GetServiceOrganizationDataRequest	

Returns

Type	Description
Task<GetServiceOrganizationDataResponse>	

GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificateRequest)

Declaration

```
public GetTransportModuleIntermediateCertificateResponse GetTransportModuleIntermediateCertificate(GetTransportModuleIntermediateCertificateRequest GetTransportModuleIntermediateC
```

Parameters

Type	Name	Description
GetTransportModuleIntermediateCertificateRequest	GetTransportModuleIntermediateCertificateRequest	

Returns

Type	Description
GetTransportModuleIntermediateCertificateResponse	

GetTransportModuleIntermediateCertificate.Async(GetTransportModuleIntermediateCertificateRequest)

Declaration

```
public Task<GetTransportModuleIntermediateCertificateResponse> GetTransportModuleIntermediateCertificateAsync(GetTransportModuleIntermediateCertificateRequest GetTransportModuleI
```

Parameters

Type	Name	Description
GetTransportModuleIntermediateCertificateRequest	GetTransportModuleIntermediateCertificateRequest	

Returns

Type	Description
Task<GetTransportModuleIntermediateCertificateResponse>	

OpenAsync()

Declaration

```
public virtual Task OpenAsync()
```

Returns

Type Description

[Task](#)

ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificateRequest)

Declaration

```
public ProvideInfoToCrossedOutEmployeeCertificateResponse ProvideInfoToCrossedOutEmployeeCertificate(ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCrossedOutEmpl
```

Parameters

Type	Name	Description
ProvideInfoToCrossedOutEmployeeCertificateRequest	ProvideInfoToCrossedOutEmployeeCertificateRequest	

Returns

Type	Description
ProvideInfoToCrossedOutEmployeeCertificateResponse	

ProvideInfoToCrossedOutEmployeeCertificate.Async(ProvideInfoToCrossedOutEmployeeCertificateRequest)

Declaration

```
public Task<ProvideInfoToCrossedOutEmployeeCertificateResponse> ProvideInfoToCrossedOutEmployeeCertificateAsync(ProvideInfoToCrossedOutEmployeeCertificateRequest ProvideInfoToCr
```

Parameters

Type	Name	Description
ProvideInfoToCrossedOutEmployeeCertificateRequest	ProvideInfoToCrossedOutEmployeeCertificateRequest	

Returns

Type	Description
Task<ProvideInfoToCrossedOutEmployeeCertificateResponse>	

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
CashRegisterModel	

state

Declaration

```
public ServicedCashRegisterModelState state { get; set; }
```

Property Value

Type	Description
ServicedCashRegisterModelState	

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](#)

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.

[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
------	------	-------------

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
------	------	-------------

IFiscalImplementationConfiguration	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 <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 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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.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<RequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<RequiredAttribute>.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<RequiredAttribute>.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<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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleNoFiscalisation(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment,
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Properties

FiscalClientStatus

Returns the status of the fiscal client.

Declaration

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

Property Value

Type	Description
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
DateTime	fromDate	The start date of the download.
DateTime	tillDate	The end date of the download.
string	destinationFolder	The destination folder to store. The directory must exist.

Remarks

You cannot download more than one month at once.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>destinationFolder</code> is set to null or Empty .
ArgumentOutOfRangeException	Thrown if parameter <code>tillDate</code> is before <code>fromDate</code> .
ArgumentOutOfRangeException	Thrown if parameter time range of <code>fromDate</code> and <code>tillDate</code> exceed one month.
DirectoryNotFoundException	Thrown if the given directory (<code>destinationFolder</code>) is not found.
FileNotFoundException	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
ClientConfiguration	clientConfiguration	

Returns

Type Description

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 <code>uploadFolders</code> 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
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, 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
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, RequiredAttribute, NoFiscalisationProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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, RequiredAttribute, NoFiscalisationProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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, 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, RequiredAttribute, NoFiscalisationProperties>.ValidateDocumentImplementation\(Document, bool\)](#)

Implements

[IFiscalModuleImplementation](#)
[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
FiscalCountry	

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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	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
FiscalResponse	A FiscalResponse 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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<PolandFiscalisationRequiredAttribute>.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<PolandFiscalisationRequiredAttribute>.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<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
ReadOnlyDictionary<PaymentType, int>	

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

Type	Description
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Document validation for bulgaria.

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

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

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

Document	document	The document to validate.
--------------------------	----------	---------------------------

Returns

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

List < DocumentValidationError >	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

[IFiscalModulImplementation](#)
[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\(\)](#)
[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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, IFiscalModulImplementation
```

Constructors

TrustedFiscalModulePoland(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModulePoland(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string s1
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Properties

[FiscalClientStatus](#)

Returns the status of the fiscal client.

Declaration

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

Property Value

Type	Description
FiscalClientStatus	

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.FiscalClientStatus](#)

SimplifiedInvoiceBusinessTaxNumberCaption

Business tax number caption on simplified invoice.

Declaration

```
protected override string SimplifiedInvoiceBusinessTaxNumberCaption { get; }
```

Property Value

Type	Description
string	

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
string	

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
string	

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
string	

Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, PolandFiscalisationRequiredAttribute, PolandFiscalProperties>.SimplifiedInvoiceOriginalText](#)

SimplifiedInvoiceReferenceCaption

Invoice document reference caption.

Declaration

```
protected override string SimplifiedInvoiceReferenceCaption { get; }
```

Property Value

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
FiscalResponse	An object of type FiscalResponse representing an empty country specific FiscalResponse .

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
string	signature	The return value of the printer if everything goes well.

Type	Name	Description
List<DocumentTaxPosition>	taxPositions	The tax positions of the document.

[string](#) userMessage The error message of the printer.

Returns

Type	Description
FiscalResponse	The country specific FiscalResponse 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
PaymentType	paymentType	The PaymentType to map.

Returns

Type	Description
int	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
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, 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
Document	document	The document to validate.
bool	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

Returns

Type	Description
List<DocumentValidationError>	

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
FiscalCountry	

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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	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
FiscalResponse	A FiscalResponse 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
------	-------------

Dictionary<int, int>	
--	--

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
------	------	-------------

FiscalClient	client	
------------------------------	--------	--

Returns

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

List<ValidationError>	
---	--

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
ReadOnlyDictionary<PaymentType, int>	

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

Type	Description
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Document validation for bulgaria.

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

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

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

Document	document	The document to validate.
--------------------------	----------	---------------------------

Returns

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

List < DocumentValidationError >	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\(\)](#)
[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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleRomania(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string :
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	cloudApiSecret	

Properties

[FiscalClientStatus](#)

Returns the status of the fiscal client.

Declaration

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

Property Value

Type	Description
FiscalClientStatus	

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
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
FiscalResponse	An object of type FiscalResponse representing an empty country specific FiscalResponse .

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
string	signature	The return value of the printer if everything goes well.

Type	Name	Description
List<DocumentTaxPosition>	taxPositions	The tax positions of the document.

[string](#) userMessage The error message of the printer.

Returns

Type	Description
FiscalResponse	The country specific FiscalResponse 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
PaymentType	paymentType	The PaymentType to map.

Returns

Type	Description
int	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
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, 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
Document	document	The document to validate.
bool	reprintDocument	True if the document is called with ReprintDocument method; otherwise false.

Returns

Type	Description
List<DocumentValidationError>	

Overrides

[TrustedFiscalModuleFlink<ClientConfiguration, RomaniaFiscalisationRequiredAttribute, RomaniaFiscalProperties>.ValidateDocumentCountry\(Document, bool\)](#)

Implements

[IFiscalModullImplementation](#)
[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
------	------	-------------

IFiscalImplementationConfiguration	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 <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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
string	fiscalDocumentNumber	The fiscalisation document number as string.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific)
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	invoiceNr	The invoice number (sdc) of the response.
string	qrCode	The qr code for the printout.
string	invoiceCounter	The invoice counter for the printout.
string	invoiceCounterExtension	The invoice counter extension for the printout.
string	verificationUrl	The verification url.
string	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
------	------	-------------

FiscalResponse	fiscalResponse	
--------------------------------	----------------	--

Returns

Type Description

[string](#)

InvoiceCounterExtension(FiscalResponse)

Returns the invoice counter extension.

Declaration

```
public static string InvoiceCounterExtension(this FiscalResponse fiscalResponse)
```

Parameters

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

FiscalResponse	fiscalResponse	
--------------------------------	----------------	--

Returns

Type Description

[string](#)

InvoiceNr(FiscalResponse)

Returns the sdc invoice number.

Declaration

```
public static string InvoiceNr(this FiscalResponse fiscalResponse)
```

Parameters

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

FiscalResponse	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
------	------	-------------

FiscalResponse	fiscalResponse	
--------------------------------	----------------	--

Returns

Type Description

[string](#)

SdcDateTime(FiscalResponse)

Returns the sdc date time.

Declaration

```
public static string SdcDateTime(this FiscalResponse fiscalResponse)
```

Parameters

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

FiscalResponse	fiscalResponse	
--------------------------------	----------------	--

Returns

Type Description

[string](#)

VerificationUrl(FiscalResponse)

Returns the verification url.

Declaration

```
public static String VerificationUrl(this FiscalResponse fiscalResponse)
```

Parameters

Type	Name	Description
FiscalResponse	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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<SerbiaFiscalisationRequiredAttribute>.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<SerbiaFiscalisationRequiredAttribute>.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<SerbiaFiscalisationRequiredAttribute>.SurchargesPossible](#)

TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

Type Description
Vat

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
------	------	-------------

FiscalClient	client	
------------------------------	--------	--

Returns

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

List<ValidationError>	
---	--

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
Dictionary<PaymentType, int>	

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
ReadOnlyCollection<Vat>	

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleSerbia(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string st
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
------	------	-------------

[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, 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
------	------	-------------

[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, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.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, 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
------	------	-------------

[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, 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
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, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)
```

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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, SerbiaFiscalisationRequiredAttribute, SerbiaFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)
```

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

Type	Name	Description
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, 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
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

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
List<InvoiceItem>	

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
List<InvoicePayment>	

ReferentDocumentDT

The reference document date for copies, refunds and advance receipts.

Declaration

```
public DateTime? ReferentDocumentDT { get; set; }
```

Property Value

Type	Description
DateTime?	

ReferentDocumentNumber

The reference document number for copies, refunds and advance receipts.

Declaration

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

Property Value

Type	Description
string	

TransactionType

Transaction Type enumeration value: 0 - Sale, 1 - Refund

Declaration

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

Property Value

Type	Description
int	

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
List<InvoiceResponseTaxItem>	

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
List<StatusTaxCategory>	

ValidFrom

This item is valid from

Declaration

```
public DateTime ValidFrom { get; set; }
```

Property Value

Type	Description
DateTime	

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
StatusTaxRates	

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>.ModuleEnvironment](#)
[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\(string, string, string, string, string\)](#)
[TrustedFiscalModuleImplementationBase<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string\)](#)
[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>.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.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>, FiscalModuleEnvironment, string, CloudService, string, string)

Constructor.

Declaration

```
public TrustedFiscalModuleAdriaBase(FiscalClient client, ILogger logger, string logSource, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment e
```

Parameters

Type	Name	Description
FiscalClient	client	The fiscal client for the modules.
ILogger	logger	The logger for this class.
string	logSource	The name of the source when a log entry is written. Replace in country implementation with nameof(TrustedFiscalModule(CountryName)).
Action<IFiscalImplementationConfiguration>	storeConfiguration	Action to store the configuration to the configuration file (if necessary).
FiscalModuleEnvironment	environment	The environment of the fiscal module (local, cloud, rf fiscal platform).
string	storageBasePath	The storage base path for the fiscal module. If not set standard local store path (c:\programData\RetailForce\Fiscal WebService) is used.
CloudService	cloudService	The service to connect to the retailforce cloud system. Optional.
string	cloudApiKey	The api key for cloud authentication. Optional.
string	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
ArgumentNullException	Thrown if <code>client</code> is set to null.
ArgumentNullException	Thrown if <code>logger</code> is set to null.
ArgumentNullException	Thrown if <code>logSource</code> is set to null or Empty .
ArgumentNullException	Thrown if <code>storeConfiguration</code> is set to null.
ArgumentException	Thrown if property FiscalModullImplementationConfiguration is null or not of type <code>TClientConfiguration</code> .
CloudNotConnectedException	Thrown if cloud parameters are not server and cloud connection is mandatory by the client.

Methods

CancelDocument(Document)

Cancel a document on the fiscal interface.

Declaration

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

Parameters

Type	Name	Description
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
------	------	-------------

[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<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
------	------	-------------

[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<TClientConfiguration, TRequiredAttribute, TCountryProperties>.DecommissionClient\(Document\)](#)

GetFiscalResponse()

Returns empty fiscal response for the appropriate country.

Declaration

```
protected abstract FiscalResponse GetFiscalResponse()
```

Returns

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

[FiscalResponse](#)

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
string	signature	
string	protectiveMark	
List<DocumentTaxPosition>	taxPositions	

Returns

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

[FiscalResponse](#)

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<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
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<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
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<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
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<TClientConfiguration, TRequiredAttribute, TCountryProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
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.

Implements

[IFiscalModuleImplementation](#)
[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
FiscalCountry	

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
string	

SoftwareCompanyTaxNumber

The tax number of the software company (if slovenian pos software supplier)

Declaration

```
public string SoftwareCompanyTaxNumber { 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
IFiscalImplementationConfiguration	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 <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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	protectiveMark	The protective mark of the response.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
FiscalResponse	fiscalResponse	The fiscal response containing the field.

Returns

Type	Description
string	

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
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

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
List<EntityParameterInfo>	

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
FiscalCountry	

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
List<DocumentType>	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<SloveniaFiscalisationRequiredAttribute>.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<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
------	------	-------------

FiscalClient	client	
------------------------------	--------	--

Returns

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

List<ValidationError>	
---	--

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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleSlovenia(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

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
ClientConfiguration	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
FiscalResponse	

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
string	signature	
string	protectiveMark	
List<DocumentTaxPosition>	taxPositions	

Returns

Type	Description
FiscalResponse	

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
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

[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
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

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
------	-------------

bool	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
------	------	-------------

Type	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.
Type	objectType	Type of the object.
object	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.
object	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
string	algorithm	Used algorithm.

[X509Certificate2](#) certificate The certificate for the additional properties.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>algorithm</code> is set to null or Empty .
ArgumentNullException	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
------	-------------

DateTime	
--------------------------	--

MessageID

The unique id for the invoice message.

Declaration

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

Property Value

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

string	
------------------------	--

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
------	-------------

JwtHeader	
---------------------------	--

HeaderJson

The jwt header as json string.

Declaration

```
[JsonIgnore]  
public string HeaderJson { get; }
```

Property Value

Type Description

[string](#)

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
-------------	--------------------

string	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
-------------	--------------------

string	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
------	-------------

JwtHeader	
---------------------------	--

HeaderSerialized

Declaration

```
[JsonIgnore]  
public string HeaderSerialized { get; }
```

Property Value

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

string	
------------------------	--

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
BusinessPremiseType?	

RealEstateBP

Information to immobile business premise.

Declaration

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

Property Value

Type	Description
RealEstateBp	

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
------	-------------

BPIdentifier	
------------------------------	--

BusinessPremiseID

The store number.

Declaration

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

Property Value

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

string	
------------------------	--

SoftwareSupplier

The software supplier for this business premise.

Declaration

```
public SoftwareSupplier[] SoftwareSupplier { get; set; }
```

Property Value

Type	Description
SoftwareSupplier	[]

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
------	-------------

BusinessPremise	
---------------------------------	--

Header

Declaration

```
public MessageHeader Header { get; set; }
```

Property Value

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

MessageHeader	
-------------------------------	--

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
------	------	-------------

BusinessPremiseRequest	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
BusinessPremiseResponse	

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
string	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
------	-------------

Address	
-------------------------	--

PropertyID

Land register information.

Declaration

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

Property Value

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

PropertyId	
----------------------------	--

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
------	------	-------------

DocumentReference	documentReference	The document reference to convert.
-----------------------------------	-------------------	------------------------------------

Returns

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

ReferenceInvoice	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
List<ReferenceInvoice>	

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
List<InvoiceVat>	

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
MessageHeader	

Invoice

The invoice itself.

Declaration

```
public Invoice Invoice { get; set; }
```

Property Value

Type	Description
Invoice	

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
InvoiceRequest	invoiceRequest	The invoice request which will be sent within this container.

Exceptions

Type	Condition
ArgumentNullException	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
InvoiceRequest	

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
InvoiceResponse	

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
List<TaxPosition>	

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
------	-------------

InvoiceIdentifier	
-----------------------------------	--

ReferenceInvoiceIssueDateTime

The issue date time of the referenced invoice.

Declaration

```
public DateTime ReferenceInvoiceIssueDateTime { get; set; }
```

Property Value

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

DateTime	
--------------------------	--

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
IStreamProvider	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
FiscalCountry	

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
string	

TicketBaiDevLicense

TicketBAI License for software development country.

Declaration

```
public string TicketBaiDevLicense { 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	

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
IFiscalImplementationConfiguration	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 <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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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 qrCode)
```

Parameters

Type	Name	Description
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific)
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	qrCode	The qr code of the response.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
FiscalResponse	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
-----------	-------------

string 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
ReadOnlyDictionary<string, TicketBaiProperties>	

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
List<string>	

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
string	

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
int	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<SpainFiscalisationRequiredAttribute>.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<SpainFiscalisationRequiredAttribute>.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<SpainFiscalisationRequiredAttribute>.SurchargesPossible](#)

TaxFreeVat

The tax free vat class for this country.

Declaration

```
public override Vat TaxFreeVat { get; }
```

Property Value

Type	Description
Vat	

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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
------	-------------

List<string>	
------------------------------------	--

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

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

ReadOnlyCollection<Vat>	
---	--

VatExemptionDictionary

Declaration

```
public static readonly Dictionary<int, CausaExencionType> VatExemptionDictionary
```

Field Value

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

Dictionary<int, CausaExencionType>	
--	--

VatNotTaxableDictionary

Declaration

```
public static readonly Dictionary<int, CausaNoSujetaType> VatNotTaxableDictionary
```

Field Value

Type	Description
Dictionary<int, CausaNoSujetaType>	

Methods

GetCountryType2FromIsoAlphaCode3(string)

Declaration

```
public static CountryType2? GetCountryType2FromIsoAlphaCode3(string isoAlphaCode3)
```

Parameters

Type	Name	Description
string	isoAlphaCode3	

Returns

Type	Description
CountryType2?	

ValidateDocument(Document)

Validates the document

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	Document to validate

Returns

Type	Description
List<DocumentValidationError>	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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, IFiscalModuleImplementation
```

Constructors

TrustedFiscalModuleSpain(FiscalClient, ILogger, Action<IFiscalImplementationConfiguration>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleSpain(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string storageBasePath, string clientStoragePath, CloudService cloudService, string apiKey, string apiSecret)
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
Guid	documentGuid	The guid of the document to cancel.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.CancelErrorDocument\(Guid\)](#)

Exceptions

Type	Condition
NotImplementedException	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
ClientConfiguration	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 <code>cert</code> 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
------	------	-------------

Type	Name	Description
X509Certificate2	cert	The certificate to get the hash.

Returns

Type	Description
byte[]	The hash of the certificate with sha512 algorithm.

Exceptions

Type	Condition
ArgumentNullException	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
bool	onlyAsync	True if only error documents should be returned which were generated in asynchronous operation.

Returns

Type	Description
List<Guid>	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
NotImplementedException	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
Stream	stream	The stream where the zip data should be stored.
DateTime?	fromDate	From date filter (including specified date). Optional.
DateTime?	tillDate	Till date filter (including specified date). Optional.

Exceptions

Type	Condition
ArgumentNullException	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
Stream	stream	The stream where the zip data should be stored.
string	documentNumber	The document number (which was sent to ticketBai -> NumFactura). Not null and not empty.

Returns

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

[int](#) The number of files which were added to the zip file.

Exceptions

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

[ArgumentNullException](#) Thrown if parameter `stream` 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
------	-------------

[string](#) 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
------	------	-------------

[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, 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
------	------	-------------

[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, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

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

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

[NotImplementedException](#) Thrown if the client is no fiscalisation client or migration is not supported in the country of the fiscal client.

Type	Condition
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, SpainFiscalisationRequiredAttribute, SpainFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter importFile is set to null or Empty .
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, 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

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
CapituloModelo240Enum	

Ejercicio

Declaration

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

Property Value

Type Description

[int](#)

Modelo

Declaration

```
public Modelo240Enum Modelo { get; set; }
```

Property Value

Type	Description
Modelo240Enum	

ObligadoTributario

Declaration

```
public NIFPersonaType ObligadoTributario { get; set; }
```

Property Value

Type	Description
NIFPersonaType	

Operacion

Declaration

```
public OperacionEnum Operacion { get; set; }
```

Property Value

Type	Description
OperacionEnum	

Subcapitulo

Declaration

```
public SubcapituloModelo240Enum Subcapitulo { get; set; }
```

Property Value

Type	Description
SubcapituloModelo240Enum	

SubcapituloSpecified

Declaration

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

Property Value

Type	Description
bool	

Version

Declaration

```
public IDVersionEnum Version { get; set; }
```

Property Value

Type	Description
IDVersionEnum	

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
OtraInformacionTrascendenciaTributariaType	

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
SituacionInmuebleEnum	

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
Cabecera240Type	

FacturasEmitidas

Declaration

```
public DetalleEmitidaConSGCodificadoType[] FacturasEmitidas { get; set; }
```

Property Value

Type	Description
DetalleEmitidaConSGCodificadoType[]	

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
Cabecera240Type	

DatosPresentacion

Declaration

```
public DatosPresentacionType DatosPresentacion { get; set; }
```

Property Value

Type	Description
DatosPresentacionType	

Registros

Declaration

```
public RegistroFacturaConSGType[] Registros { get; set; }
```

Property Value

Type	Description
RegistroFacturaConSGType[]	

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
------	-------------

SiNoEnum	
--------------------------	--

CuponSpecified

Declaration

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

Property Value

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

bool	
----------------------	--

EntidadSucedida

Declaration

```
public EntidadSucedidaType EntidadSucedida { get; set; }
```

Property Value

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

EntidadSucedidaType	
-------------------------------------	--

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
IdentificadorFacturaConSGType	

SituacionRegistro

Declaration

```
public SituacionRegistroType SituacionRegistro { get; set; }
```

Property Value

Type	Description
SituacionRegistroType	

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
EstadoRegistroEnum	

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](#)

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[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
IDVersionTicketBaiType	

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
------	-------------

SiNoType	
--------------------------	--

FacturaEmitidaSustitucionSimplificadaSpecified

Declaration

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

Property Value

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

bool	
----------------------	--

FacturaRectificativa

Declaration

```
public FacturaRectificativaType FacturaRectificativa { get; set; }
```

Property Value

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

FacturaRectificativaType	
--	--

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
IDFacturaRectificadaSustituidaType[]	

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
------	-------------

XmlNode[]	
---------------------------	--

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 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.Spain.TicketBai](#)

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 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
------	-------------

[IDClaveType\[\]](#)

DescripcionFactura

Declaration

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

Property Value

Type Description

[string](#)

DetallesFactura

Declaration

```
public IDDetalleFacturaType[] DetallesFactura { get; set; }
```

Property Value

Type	Description
IDDetalleFacturaType[]	

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
DetalleNoSujeta[]	

Sujeta

Declaration

```
public SujetaType Sujeta { get; set; }
```

Property Value

Type	Description
SujetaType	

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
CausaExencionType	

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
DetalleIVAType[]	

TipoNoExenta

Declaration

```
public TipoOperacionSujetaNoExentaType TipoNoExenta { get; set; }
```

Property Value

Type	Description
TipoOperacionSujetaNoExentaType	

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
CausaNoSujetaType	

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
------	-------------

XmlNode[]	
---------------------------	--

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
DetalleNoSujeta[]	

Sujeta

Declaration

```
public SujetaType Sujeta { get; set; }
```

Property Value

Type	Description
SujetaType	

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
CabeceraFacturaType	

DatosFactura

Declaration

```
public DatosFacturaType DatosFactura { get; set; }
```

Property Value

Type	Description
DatosFacturaType	

TipoDesglose

Declaration

```
public TipoDesgloseType TipoDesglose { get; set; }
```

Property Value

Type	Description
TipoDesgloseType	

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
ClaveTipoFacturaType	

ImporteRectificacionSustitutiva

Declaration

```
public ImporteRectificacionSustitutivaType ImporteRectificacionSustitutiva { get; set; }
```

Property Value

Type	Description
ImporteRectificacionSustitutivaType	

Tipo

Declaration

```
public ClaveTipoRectificativaType Tipo { get; set; }
```

Property Value

Type	Description
ClaveTipoRectificativaType	

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
EncadenamientoFacturaAnteriorType	

NumSerieDispositivo

Declaration

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

Property Value

Type Description

[string](#)

Software

Declaration

```
public SoftwareFacturacionType Software { get; set; }
```

Property Value

Type	Description
SoftwareFacturacionType	

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
IdOperacionesTrascendenciaTributariaType	

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
------	-------------

CountryType2	
------------------------------	--

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
IDTypeType	

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
DetalleNoSujeta[]	

Sujeta

Declaration

```
SujetaType Sujeta { get; set; }
```

Property Value

Type	Description
SujetaType	

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
------	-------------

ItemsChoiceType2[]	
------------------------------------	--

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.Spain.TicketBai](#)

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.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
ReferenceType[]	

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

[object\[\]](#)

ItemsElementName

Declaration

```
public ItemsChoiceType1[] ItemsElementName { get; set; }
```

Property Value

Type	Description
ItemsChoiceType1[]	

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
DetalleNoSujeta[]	

Sujeta

Declaration

```
public SujetaType Sujeta { get; set; }
```

Property Value

Type	Description
SujetaType	

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
DigestMethodType	

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
TransformType[]	

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
TransformType[]	

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
------	-------------

XmlElement	
----------------------------	--

SPKISexp

Declaration

```
public byte[][] SPKISexp { get; set; }
```

Property Value

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

byte[][]	
--------------------------	--

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
------	-------------

ResultadosValidacion[]	
--	--

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
SignaturePropertyType[]	

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
------	-------------

XmlElement[]	
------------------------------	--

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
SignatureValueType	

SignedInfo

Declaration

```
public SignedInfoType SignedInfo { get; set; }
```

Property Value

Type	Description
SignedInfoType	

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
CanonicalizationMethodType	

Id

Declaration

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

Property Value

Type Description

[string](#)

Reference

Declaration

```
public ReferenceType[] Reference { get; set; }
```

Property Value

Type	Description
ReferenceType[]	

SignatureMethod

Declaration

```
public SignatureMethodType SignatureMethod { get; set; }
```

Property Value

Type	Description
SignatureMethodType	

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
EntidadDesarrolladoraType	

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
DetalleExentaType[]	

NoExenta

Declaration

```
public DetalleNoExentaType[] NoExenta { get; set; }
```

Property Value

Type	Description
DetalleNoExentaType[]	

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
IDDestinatario[]	

Emisor

Declaration

```
public Emisor Emisor { get; set; }
```

Property Value

Type	Description
Emisor	

EmitidaPorTercerosODestinatario

Declaration

```
public EmitidaPorTercerosType EmitidaPorTercerosODestinatario { get; set; }
```

Property Value

Type	Description
EmitidaPorTercerosType	

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
SignatureType	

Sujetos

Declaration

```
public Sujetos Sujetos { get; set; }
```

Property Value

Type	Description
Sujetos	

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 UriStore CancelInvoiceUrl { get; set; }
```

Property Value

Type Description

[UriStore](#)

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
TransformType[]	

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
LroeBizkaiaInte	

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
------	-------------

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
------	------	-------------

IFiscalImplementationConfiguration	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 <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
ControlUnitDriver	

ControlUnitParameter

The parameters for the central control unit driver.

Declaration

```
public virtual List<Parameter> ControlUnitParameter { get; set; }
```

Property Value

Type	Description
List<Parameter>	

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
ReadOnlyDictionary<string, object>	additionalFields	The dictionary of all country specific fields.

Exceptions

Type	Condition
MissingMemberException	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
FiscalResponse	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
int	fiscalisationDocumentNumber	The fiscalisation document number.
List<DocumentTaxPosition>	taxPositions	Tax positions calculated by fiscal system.
long	fiscalDocumentStartTime	The start time of this fiscal document (when CreateDocument was called, in unix time seconds).
string	signature	The signature of the security device (country-specific).
string	cashRegisterId	The cash register id.
string	printMessage	The print message to print out on the customer receipt. In several countries you have to print out this message.
string	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
string	controlUnitSerial	The central control unit identification.
string	userMessage	An message to the user (if control unit is not available).

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
IStreamProvider	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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

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
bool	

Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.PrintFiscalDocumentNumber](#)

ReprintAllowedDomain

Returns the domain within reprints are allowed.

Declaration

```
public override ReceiptDomain ReprintAllowedDomain { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnAndSaleBehavior	

Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.ReturnAndSaleBehavior](#)

ReturnDomainAllowed

Returns the domain where document references are allowed.

Declaration

```
public override ReceiptDomain ReturnDomainAllowed { get; }
```

Property Value

Type	Description
ReceiptDomain	

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
ReturnReferenceBehavior	

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
List<BusinessTransactionType>	

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
List<DocumentType>	

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
List<PaymentType>	

Overrides

[FiscalCountryPropertiesBase<SwedishFiscalisationRequiredAttribute>.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<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
FiscalClient	client	

Returns

Type	Description
List<ValidationError>	

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
ReadOnlyCollection<Vat>	

Methods

ValidateDocument(Document)

Declaration

```
public static List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

Type	Name	Description
Document	document	

Returns

Type	Description
List<DocumentValidationError>	

Class TrustedFiscalModuleSweden

Implementation for fiscalisation of Sweden.

Inheritance

[object](#)
[LoggingBase](#)
[TrustedFiscalModuleBase](#)
[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>](#)
[TrustedFiscalModuleSweden](#)

Implements

[IFiscalModuleImplementation](#)
[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\(string, string, string, string, string\)](#)
[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\(out DateTimeOffset?, DateTimeOffset?\)](#)
[TrustedFiscalModuleBase.FiscalClient](#)
[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>, FiscalModuleEnvironment, string, CloudService, string, string)

Declaration

```
public TrustedFiscalModuleSweden(FiscalClient client, ILogger logger, Action<IFiscalImplementationConfiguration> storeConfiguration, FiscalModuleEnvironment environment, string s1
```

Parameters

Type	Name	Description
FiscalClient	client	
ILogger	logger	
Action<IFiscalImplementationConfiguration>	storeConfiguration	
FiscalModuleEnvironment	environment	
string	storageBasePath	
CloudService	cloudService	
string	cloudApiKey	
string	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
FiscalClientStatus	

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
Document	document	The document to cancel.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
ClientConfiguration	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
DocumentType	documentType	The type of the document for which the document should be created.

Returns

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

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

[FiscalResponse](#) A [FiscalResponse](#) object representing the appropriate fiscal response data.

Overrides

[TrustedFiscalModuleImplementationBase<ClientConfiguration, SwedishFiscalsationRequiredAttribute, 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
------	------	-------------

[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, SwedishFiscalsationRequiredAttribute, SwedenFiscalProperties>.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, SwedishFiscalsationRequiredAttribute, 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
------	------	-------------

[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, SwedishFiscalsationRequiredAttribute, 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
------	------	-------------

[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
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, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MigrateClient\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>serviceUrl</code> is set to null or Empty .
NotSupportedException	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, SwedishFiscalisationRequiredAttribute, SwedenFiscalProperties>.MigrateClientFile\(string, string, string, string, string, string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>importFile</code> is set to null or Empty .
NotSupportedException	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, 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
Document	document	The document to store.

Returns

Type	Description
FiscalResponse	A FiscalResponse 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
Document	document	
bool	reprintDocument	

Returns

Type	Description
List<DocumentValidationError>	

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
string	apiKey	
string	baseUrl	The base url of the rest client.
ILogger	logger	A logger for logging purposes.
int	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
------	------	-------------

string	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
------	------	-------------

CentralControlUnitRequest	request	The request for the central control unit.
---	---------	---

Returns

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

CentralControlUnitResponse	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
AxenaDriverInfo	

IsOnline(string)

True if the control unit is online and authentication does not fail.

Declaration

```
public bool IsOnline(string organizationId)
```

Parameters

Type	Name	Description
string	organizationId	The id of the axena ccu organization.

Returns

Type	Description
bool	True if the control unit is online and operational; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>organizationId</code> is set to null or Empty .

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
ControlUnitDriver	

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
------	-------------

DateTime	
--------------------------	--

DocumentNumber

The document number for the request.

Declaration

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

Property Value

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

int	
---------------------	--

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
List<DocumentTaxPosition>	

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
string	response	The response signature from the ccu.
string	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
IEnumerable<ControlUnitDriverInfo>	

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
CentralControlUnitRequest	request	The request for the central control unit.

Returns

Type	Description
CentralControlUnitResponse	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
string	organizationId	The id of the axena ccu organization.

Returns

Type	Description
bool	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
-----------	-------------

string token	The token for authentication. Must not be null or empty string.
------------------------------	---

Exceptions

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

ArgumentNullException	Thrown if parameter <code>token</code> is set to null or Empty .
---------------------------------------	--

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
Guid	uniqueClientId	The unique client id (fiscal client id) of the license token.
Guid	licenseConsumerId	The license consumer id of the license token.
string	licenseToken	The license token.

Returns

Type	Description
List<string>	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
Guid	uniqueClientId	The unique client id (fiscal client id) of the license token.

Type	Name	Description
Guid	licenseConsumerId	The license consumer id of the license token.

string	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
SecurityException	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
string	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
FiscalClient	fiscalClient	The client to check.
string	accessLicenseId	The access license to check.

Returns

Type	Description
bool	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
FiscalClient	<code>fiscalClient</code>	The client to check.
string	<code>licenseId</code>	The license to check.

Returns

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

[bool](#) 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
string	<code>token</code>	The token to validate.

[string](#) `xmlKey` 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
BusinessTransactionType	documentType	
BusinessTransactionType[]	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
------	------	-------------

Type	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	
Type	objectType	
object	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	
object	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.
string	declaringTypeName	The name of the declaring type of the property with the validation error.
string	propertyName	The name of the property with the validation error.
string	errorString	The error description of the property error.

Returns

Type	Description
DocumentValidationError	An DocumentValidationError 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
List<SecurityDeviceStateElement>	

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
FiscalClientState	

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
PartnerIdentificationType?	

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
PartnerType	

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
DocumentPayment	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
Payment	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
DocumentPayment	payment	
Payment	payment1	

Returns

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

[bool](#)

operator ==(Payment, DocumentPayment)

Declaration

```
public static bool operator ==(Payment payment1, DocumentPayment payment)
```

Parameters

Type	Name	Description
Payment	payment1	
DocumentPayment	payment	

Returns

Type Description

[bool](#)

operator ==(Payment, Payment)

Declaration

```
public static bool operator ==(Payment payment1, Payment payment2)
```

Parameters

Type	Name	Description
Payment	payment1	
Payment	payment2	

Returns

Type Description

[bool](#)

operator !=(DocumentPayment, Payment)

Declaration

```
public static bool operator !=(DocumentPayment payment, Payment payment1)
```

Parameters

Type	Name	Description
DocumentPayment	payment	
Payment	payment1	

Returns

Type Description

[bool](#)

operator !=(Payment, DocumentPayment)

Declaration

```
public static bool operator !=(Payment payment1, DocumentPayment payment)
```

Parameters

Type	Name	Description
Payment	payment1	
DocumentPayment	payment	

Returns

Type Description

Type Description

[bool](#)

operator !=(Payment, Payment)

Declaration

```
public static bool operator !=(Payment payment1, Payment payment2)
```

Parameters

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

Payment	payment1	
-------------------------	----------	--

Payment	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
int	dueDateDays	
int?	discountDueDays	
decimal?	discount	
decimal?	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
------	-------------

SecurityDeviceState	
-------------------------------------	--

Methods

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 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
string	id	The id of the user.
string	caption	The caption / name of the user.
string	firstName	The first name of the user.
string	lastName	The last name of the user.
DateTimeOffset?	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
User other	An object to compare with this object.

Returns

Type	Description
bool true	if the current object is equal to the <code>other</code> parameter; otherwise, false .

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
------	-------------

object	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
------	------	-------------

decimal	vatPercent1	The percentage for calculation.
-------------------------	-------------	---------------------------------

decimal	netValue	The net value for calculation.
-------------------------	----------	--------------------------------

Returns

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

decimal	The calculated gross value.
-------------------------	-----------------------------

GetGrossValueFromTaxValue(decimal, decimal)

Declaration

```
public static decimal GetGrossValueFromTaxValue(decimal vatPercent1, decimal taxValue)
```

Parameters

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

decimal	vatPercent1	
-------------------------	-------------	--

decimal	taxValue	
-------------------------	----------	--

Returns

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

decimal	
-------------------------	--

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
decimal	vatPercent1	The percentage for calculation.
decimal	grossValue	The gross value for calculation.

Returns

Type	Description
decimal	The calculated net value.

GetNetValueFromTaxValue(decimal, decimal)

Declaration

```
public static decimal GetNetValueFromTaxValue(decimal vatPercent1, decimal taxValue)
```

Parameters

Type	Name	Description
decimal	vatPercent1	
decimal	taxValue	

Returns

Type	Description
decimal	

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
decimal	vatPercent1	The percentage for calculation.
decimal	grossValue	The gross value for calculation.

Returns

Type	Description
decimal	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
decimal	vatPercent1	The percentage for calculation.
decimal	netValue	The net value for calculation.

Returns

Type	Description
decimal	The calculated tax value.

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\(\)](#)

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
Guid	uniqueClientId	The unique client id this audit log entry belongs. This property will not be stored to the log file.
DateTime?	auditDateTime	The datetime of the audit log entry. If null Now is used.
LogEntryType	logEntryType	The type of the audit log entry.
string	message	The message of the audit log.
Guid?	documentGuid	A possible connection to a document of the audit log entry.
User	user	The user (if applicable) of the audit log entry.
decimal?	amount	A possible amount for the audit log entry.
string	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
AuditLogEntry	other	An object to compare with this object.

Returns

Type	Description
bool	true if the current object is equal to the <code>other</code> parameter; otherwise, false .

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 <code>data</code> is set to null or Empty .

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 planned 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 subsequently) 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
FiscalResponse	response	A FiscalResponse object representing the fiscal response for starting a transaction.

Exceptions

Type	Condition
ArgumentNullException	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
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.

AdditionalFields

Additional fields for the document.

Declaration

```
public Dictionary<string, string> AdditionalFields { get; set; }
```

Property Value

Type	Description
Dictionary<string, string>	

AllocationGroups

The allocation group for the document.

Declaration

```
[JsonProperty(NullValueHandling = NullValueHandling.Ignore)]  
public List<string> AllocationGroups { get; set; }
```

Property Value

Type	Description
List<string>	

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
decimal	

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
string	

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
AutomaticVatCalculation	

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
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.

CancellationDocument

True if this document cancels another document; otherwise false.

Declaration

```
[JsonProperty(DefaultValueHandling = DefaultValueHandling.Ignore)]
public bool CancellationDocument { get; set; }
```

Property Value

Type	Description
bool	

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
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.

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
int?	

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
int?	

DocumentGuid

The global unique identification of the document.

Declaration

```
public Guid DocumentGuid { get; set; }
```

Property Value

Type	Description
Guid	

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
DocumentLevel	

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
DocumentReference	

DocumentType

The type of the document.

Declaration

```
[Required]  
public DocumentType DocumentType { get; set; }
```

Property Value

Type	Description
DocumentType	

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
ReadOnlyDictionary<string, object>	

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
FiscalResponse	

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
List<DocumentPositionBase>	

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
DateTimeOffset?	

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
Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>>	mappingDictionary	The dictionary with the mapping.
DocumentType	documentType	The document type to check.
BusinessTransactionType	businessTransactionType	The business transaction type to check.

Type	Name	Description
List<DocumentValidationError>	errorList	A possible error list to add a validation error. If null no error is added.
bool	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
bool	True if an error would be added (independent from <code>useErrorList</code> and <code>errorList</code>).

CreateStartDocument(Guid, DateTimeOffset?)

Creates a start document (used for initialization).

Declaration

```
public static Document CreateStartDocument(Guid uniqueClientId, DateTimeOffset? bookDate = null)
```

Parameters

Type	Name	Description
Guid	uniqueClientId	The unique client id of the client which should process the start document.
DateTimeOffset? bookDate		The book date of the start document, if null, Now is used.

Returns

Type	Description
Document	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
Dictionary<DocumentType, Dictionary<BusinessTransactionType, bool>>	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
string	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
List<DocumentValidationError>	A list of DocumentValidationError 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
Document	document	The document to fetch the positions.

Returns

Type	Description
List<DocumentPositionBooking>	

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
Document	document	The document where the positions are stored.
BusinessTransactionType?	businessTransactionType	A filter to fetch only positions having this business transaction type. Optional.

Returns

Type	Description
IEnumerable<IBusinessTransactionTypePosition>	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
Document	document	The document to fetch the positions.

Returns

Type	Description
List<DocumentPositionVatPosition>	A list of type DocumentPositionVatPosition representing all positions of type DocumentPositionItem and DocumentPositionBooking .

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
Document	document	The document to fetch the positions.

Returns

Type	Description
List<DocumentPositionItem>	

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
Document	document	The document to fetch the positions.
ItemTaxType	taxType	The item tax type to filter the tax positions.

Returns

Type	Description
List<DocumentTaxPosition>	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
Document	document	
bool	notUseTaxPositions	

Returns

Type	Description
List<DocumentTaxPosition>	

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
IEnumerable<DocumentPositionVatPosition>	positions	

Returns

Type	Description
List<DocumentTaxPosition>	

GetTotalGrossAmount(Document)

Returns the total gross amount of the given document.

Declaration

```
public static decimal GetTotalGrossAmount(this Document document)
```

Parameters

Type	Name	Description
Document	document	The document to evaluate the total gross amount.

Returns

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

decimal	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
------	------	-------------

Document	document	The document to evaluate the total net amount.
--------------------------	----------	--

Returns

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

decimal	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
------	------	-------------

Document	document	The document to evaluate the total tax amount.
--------------------------	----------	--

Returns

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

decimal	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
------	------	-------------

Document	document	The document to get all voucher id's.
--------------------------	----------	---------------------------------------

Returns

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

List<string>	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\(object, object\)](#)

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

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
------	-------------

Dictionary<string, string>	
--	--

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
------	-------------

decimal	
-------------------------	--

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
------	-------------

string	The voucher id of the additional fields collections.
------------------------	--

Revert()

Reverts the payment (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()

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
-----------	-------------

uint scale	The maximum scale for all amounts of the position.
----------------------------	--

Returns

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

bool	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
Dictionary<string, string>	

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
ReadOnlyDictionary<string, object>	

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
DocumentPositionReference	

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
DocumentPositionType	

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
------	-------------

string	The string representation for this DocumentPositionBase .
------------------------	---

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
-----------	-------------

uint scale	The maximum scale for all amounts of the position.
----------------------------	--

Returns

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

bool	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
------	-------------

BusinessTransactionType	
---	--

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
------	-------------

PayOutType?	
-----------------------------	--

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
DocumentPositionType	

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
bool	

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
decimal	

Methods

Clone()

Clones the position to a new object.

Declaration

```
public object Clone()
```

Returns

Type	Description
object	A DocumentPositionItem 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
-----------	-------------

uint	scale The maximum scale for all amounts of the position.
----------------------	--

Returns

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

bool	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
------	-------------

DocumentLevel	
-------------------------------	--

Overrides

[DocumentReference.DocumentLevel](#)

PositionNumber

The position number of the referenced document position.

Declaration

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

Property Value

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

int	
---------------------	--

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
------	-------------

List<DocumentValidationError>	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
DocumentPositionType	

Overrides

[DocumentPositionBase.Type](#)

Methods

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](#)

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
------	-------------

decimal	
-------------------------	--

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
------	-------------

string	The string representation for this DocumentPositionItem .
------------------------	---

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()`

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
uint scale	The maximum scale for all amounts of the position.

Returns

Type	Description
bool	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
BarcodeType?	

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
DocumentPositionType	

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
------	-------------

string	The string representation for this DocumentPositionText .
------------------------	---

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\(\)](#)

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
-----------	-------------

uint scale	The maximum scale for all amounts of the position.
----------------------------	--

Returns

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

bool	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

[IDiscountablePosition](#)

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, IDiscountablePosition
```

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
DocumentPositionType	documentType	
DocumentPositionType[]	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
-----------	-------------

uint	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
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.

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
------	-------------

DocumentLevel	
-------------------------------	--

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 <code>other</code> 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 <code>RetailForce.Common.Validation.ValidationError</code> 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](#)

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 (CreateDocument(DocumentType)/StoreDocument(Document)).
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.
PrintingReceipt	Receipt type for printing receipt (only text positions) in countries with fiscal printer.

Name	Description
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 RetailForce.Common.Validation.ErrorLevel for more information.
DocumentLevel	level	The level of the error in the document. Possible values are header, position, payment. See level for more information.
string	errorText	The description of the error.
string	errorSource	The source module of the error. If omitted "Document" is assumed.

Exceptions

Type	Condition
ArgumentNullException	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
DocumentLevel	

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
BusinessTransactionType	

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
------	-------------

decimal	
-------------------------	--

Discounts

The discount collection for this position.

Declaration

```
List<Discount> Discounts { get; set; }
```

Property Value

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

List<Discount>	
--------------------------------------	--

Value

Declaration

```
decimal Value { get; }
```

Property Value

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

decimal	
-------------------------	--

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
string	closingIdentifier	
Document	document	
FiscalResponse	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).

[UriStore](#)

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
string	closingIdentifier	The closing identifier for this document/response tuple.
Document	document	The document of the document/response tuple.
FiscalResponse	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
------	------	-------------

string	productionUrl	The production url.
------------------------	---------------	---------------------

string	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
------	------	-------------

bool	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.

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
string	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
------	------	-------------

string	filename	The filename of the file which already exists on disk.
------------------------	----------	--

string	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
ILogger	logger	The logger for this class.
string	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
------	------	-------------

Guid?	transactionId	The id for the current 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 this function is called and no transaction was started before.
---	--

ArgumentException	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
------	------	-------------

Guid?	transactionId	The id for the current 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 this function is called and no transaction was started before.
---	--

ArgumentException	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
Guid?	transactionId	The id for the current transaction. The transactionId is the DocumentGuid of the Document .
Document	document	The document to store.

Exceptions

Type	Condition
ArgumentNullException	Thrown if <code>document</code> or <code>transactionId</code> is set to null (or <code>Guid.Empty</code>).
InvalidDataException	Thrown if the serialized string is null or empty.
InvalidOperationException	Thrown if the function was called and no transaction was started in front.
FileAlreadyExistsException	Thrown if the work file for this document already exists.
ArgumentException	Thrown if the <code>transactionId</code> 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
Document	document	The document to validate.
bool	reprintDocument	True if the document is called with <code>ReprintDocument</code> method; otherwise false.

Returns

Type	Description
List<DocumentValidationError>	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
Guid?	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

CommitTransaction(Guid?)

Commits the transaction on this interface.

Declaration

```
void CommitTransaction(Guid? transactionId)
```

Parameters

Type	Name	Description
Guid?	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

RollbackTransaction(Guid?)

Roll the transaction on this interface back.

Declaration

```
void RollbackTransaction(Guid? transactionId)
```

Parameters

Type	Name	Description
Guid?	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

StoreDocument(Guid?, Document)

Stores a document with this provider.

Declaration

```
void StoreDocument(Guid? transactionId, Document document)
```

Parameters

Type	Name	Description
Guid?	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .
Document	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
CertificateFormat	

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
string	privateKeyPassword	The password to open the pfx.

Returns

Type	Description
X509Certificate2	The X509Certificate2 object from the certificate.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>privateKeyPassword</code> is set to null or Empty .

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
string	privateKeyPassword	The password to open the pfx.
<code>AsymmetricKeyEntry</code>	privateKey	Out parameter. The private key for this certificate.
string	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
ArgumentNullException	Thrown if parameter <code>privateKeyPassword</code> is set to null or Empty .

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
string	certificatePfx	The string containing the certificate pfx.
string	privateKeySecretEncrypted	The encrypted secret to open the pfx.
string	privateKeyPassword	The password for the encrypted secret.

Returns

Type	Description
X509Certificate2	The X509Certificate2 from the given pfx.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>certificatePfx</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>privateKeySecretEncrypted</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>privateKeyPassword</code> is set to null or Empty .

GetX509CertificateEntryFromDer(Stream)

Returns Org.BouncyCastle.Pkcs.X509CertificateEntry from der encoded byte stream

Declaration

```
public static X509CertificateEntry GetX509CertificateEntryFromDer(Stream certificateStream)
```

Parameters

Type	Name	Description
Stream	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
ArgumentNullException	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
string	certificatePfx	The string containing the certificate pfx.
string	privateKeySecretEncrypted	The encrypted secret to open the pfx.
string	privateKeyPassword	The password for the encrypted secret.
AsymmetricKeyEntry	privateKey	Out parameter. The private key of the certificate.
string	certificateAlias	The alias of the certificate.

Returns

Type	Description
X509CertificateEntry	The Org.BouncyCastle.Pkcs.X509CertificateEntry from base64 encoded certificate pfx string.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter certificatePfx is set to null or Empty .
ArgumentNullException	Thrown if parameter privateKeySecretEncrypted is set to null or Empty .
ArgumentNullException	Thrown if parameter privateKeyPassword is set to null or Empty .

GetX509CertificateFromDer(Stream)

Returns Org.BouncyCastle.X509.X509Certificate from der encoded byte stream

Declaration

```
public static X509Certificate GetX509CertificateFromDer(Stream certificateStream)
```

Parameters

Type	Name	Description
Stream	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
ArgumentNullException	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.

Returns

Type	Description
bool	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.

Returns

Type	Description
X509Certificate2	A X509Certificate2 object from the stored Certificate requested by certificateName.

Exceptions

Type	Condition
KeyNotFoundException	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.
string	certificateAlias	The alias for getting the right certificate / key from the storage.

Returns

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)
```

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 <code>pfxStream</code> is set to null.
ArgumentNullException	Thrown if parameter <code>pfxPassword</code> is set to null or Empty .
AlreadyExistsException	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
string	storagebasePath	The storage base path for the certificates (including certificates directory).
Guid	uniqueClientId	The client id of the client of this CertificateFileSystemStore .

Remarks

Directory will be created if not existing.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>storagebasePath</code> is set to null or Empty .
ArgumentNullException	Thrown if parameter <code>uniqueClientId</code> is set to Empty .

Methods

CertificateExists(string)

Return whether the requested certificate exists in the store.

Declaration

```
public bool CertificateExists(string certificateName = null)
```

Parameters

Type	Name	Description
string	certificateName	The name of the certificate. If null or Empty "Default" is used.

Returns

Type	Description
bool	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.

Returns

Type	Description
X509Certificate2	A X509Certificate2 object from the stored Certificate requested by certificateName.

Exceptions

Type	Condition
KeyNotFoundException	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.
string	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.

Returns

Type	Description
bool	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
string	certificateName	The name of the certificate. If null or Empty "Default" is used.

Returns

Type	Description
X509Certificate2	A X509Certificate2 object from the stored Certificate requested by certificateName.

Exceptions

Type	Condition
KeyNotFoundException	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
string	<code>certificateName</code>	The name of the certificate. If null or Empty "Default" is used.
string	<code>certificateAlias</code>	The alias for getting the right certificate / key from the storage.

Returns

Type	Description
X509SignatureInterface	A X509SignatureInterface object from the stored Certificate requested by <code>certificateName</code> .

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

```
void StoreCertificate(Certificate certificate, string certificateName = null)
```

Parameters

Type	Name	Description
Certificate	<code>certificate</code>	The Certificate structure containing the external certificate.
string	<code>certificateName</code>	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

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

Parameters

Type	Name	Description
Stream	<code>pfxStream</code>	The stream containing the certificate in PKSC12 format. Stream must be at the beginning (Seek.Beginning).
string	<code>pfxPassword</code>	The password to access the private key of the certificate.

Type	Name	Description
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 <code>pfXStream</code> is set to null.
ArgumentNullException	Thrown if parameter <code>pfXPassword</code> is set to null or Empty .
AlreadyExistsException	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
byte[] data	The data to create the signature.

Returns

Type	Description
string	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
string data	The data to create the signature (will be utf8 encoded).

Returns

Type	Description
string	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
byte []	data	The data which were signed.
string	signature	The signature.

Returns

Type	Description
bool	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
string	data	The data which were signed.
string	signature	The signature.

Returns

Type	Description
bool	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
Stream	input	Input stream containing the data of a pfx file.

Type	Name	Description
string	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.

string	password	The password to open the pfx file.
------------------------	----------	------------------------------------

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>input</code> is set to null.
ArgumentNullException	Thrown if parameter <code>certificateAlias</code> is set to null or Empty and more than one certificate is stored in the pfx file.
KeyNotFoundException	Thrown if parameter <code>certificateAlias</code> is not found in the alias enumeration of all certificates (certificate is not found).
IOException	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
AsymmetricKeyParameter	

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
ArgumentNullException	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
byte[]	data	The data to create the signature.

Returns

Type	Description
string	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
string	data	The data to create the signature (will be utf8 encoded).

Returns

Type	Description
string	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
-----------	-------------

byte[] data	The data to sign.
-----------------------------	-------------------

Returns

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

string	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
-----------	-------------

string data	The data to create the signature (will be utf8 encoded).
-----------------------------	--

Returns

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

string	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
ArgumentNullException	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
byte[]	data	The data which were signed.

string	signature	The signature.
------------------------	-----------	----------------

Returns

Type	Description
bool	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
------	------	-------------

string	data	The data which were signed.
------------------------	------	-----------------------------

string	signature	The signature.
------------------------	-----------	----------------

Returns

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

bool	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
------	------	-------------

byte []	jsonData	
-------------------------	----------	--

JsonCanonicalizer(string)

Declaration

```
public JsonCanonicalizer(string jsonData)
```

Parameters

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

string	jsonData	
------------------------	----------	--

Methods

GetEncodedString()

Declaration

```
public string GetEncodedString()
```

Returns

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

string	
------------------------	--

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
ISignatureInterface	signer	An object implementing ISignatureInterface used to sign the object. Not null.

Exceptions

Type	Condition
ArgumentNullException	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 IJsonSigned to sign. Signature returned in property Signature .

Returns

Type	Description
TType	The signed object.

Type Parameters

Name	Description
TType	The type of the object to sign. Must inherit IJsonSigned interface.

Exceptions

Type	Condition
ArgumentNullException	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 IJsonSigned to verify the signature.

Returns

Type	Description
bool	True if the signature is valid; otherwise false.

Type Parameters

Name	Description
TType	The type of the object to verify the signature. Must inherit IJsonSigned 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
ISignatureVerifyInterface	verifyInterface	The interface including the signature verify methods.

Exceptions

Type	Condition
ArgumentNullException	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 IJsonSigned to verify the signature.

Returns

Type	Description
bool	True if the signature is valid; otherwise false.

Type Parameters

Name	Description
TType	The type of the object to verify the signature. Must inherit IJsonSigned interface.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>objectToVerify</code> is set to null.
ArgumentException	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
------	------	-------------

double	value	
------------------------	-------	--

Returns

Type Description

string	
------------------------	--

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
------	------	-------------

string	uniqueId	
------------------------	----------	--

XAdESSignature(string, string)

Declaration

```
public XAdESSignature(string prefixSignatureElement, string prefixXadesElement)
```

Parameters

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

string	prefixSignatureElement	
------------------------	------------------------	--

string	prefixXadesElement	
------------------------	--------------------	--

XAdESSignature(string, string, string)

Declaration

```
public XAdESSignature(string uniqueId, string prefixSignatureElement, string prefixXadesElement)
```

Parameters

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

string	uniqueId	
------------------------	----------	--

string	prefixSignatureElement	
------------------------	------------------------	--

string	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
X509Certificate2	certificate	certificate
XmlDocument	document	document
AsymmetricAlgorithm	rsaAlg	rsaAlg
Signature	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
X509Certificate2	certificate	certificate
XmlDocument	document	document
Signature	signature	signature

Returns

Type	Description
XmlElement	

VerifySignedXml(X509Certificate2, XmlDocument)

Declaration

```
public string VerifySignedXml(X509Certificate2 certificate, XmlDocument document)
```

Parameters

Type	Name	Description
X509Certificate2	certificate	certificate
XmlDocument	document	document

Returns

Type	Description
string	

Namespace RetailForce.Fiscalisation.Storage

Classes

[DataStorage<TData>](#)

Abstract data storage for jwt token format styled storages.

[FileStreamProvider](#)

StreamProvider to handle file system streams.

[IntegerStorageRecord](#)

Simple implementation of [StorageRecord](#) just storing an integer (and the signature).

[JsonFileStorage](#)

File storage system for json objects.

[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 StorageRecord 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
IStreamProvider	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
DateTime	<code>fetchDate</code>	The date to filter return records.

Returns

Type	Description
IEnumerable <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
DateTime	<code>fromDate</code>	Date from lines should be filtered (inclusive).
DateTime	<code>tillDate</code>	Date till lines should be filtered (inclusive).

Returns

Type	Description
List <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
NullReferenceException	Thrown if the stream provider returns a read stream which is null.
InvalidOperationException	Thrown if the returned read stream is not read-able.
ArgumentOutOfRangeException	Thrown if parameter <code>tillDate</code> is smaller than parameter <code>fromDate</code> .
InvalidDataException	Thrown if EnsureRecordDateTimeAscending 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
------	-----------

NullReferenceException	Thrown if the stream provider returns a read stream which is null.
--	--

InvalidOperationException	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
------	------	-------------

int	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
------	-----------

NullReferenceException	Thrown if the stream provider returns a read stream which is null.
--	--

InvalidOperationException	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
------	-------------

Stream	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
------	-------------

Stream	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
------	-------------

string	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
------	-----------

ArgumentNullException	Thrown if parameter <code>record</code> is set to null.
---------------------------------------	---

ArgumentException	Thrown if data property of parameter <code>record</code> is set to null.
-----------------------------------	--

NullReferenceException	Thrown if the stream provider returns a write stream which is null.
--	---

ReadOnlyException	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
------	-------------

bool	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
string	filename	The filename of the file which should be serve as read/write stream. The file must exist (see create parameter).
bool	create	True if the file should be created if not existing; otherwise false.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>filename</code> is set to null or Empty .
FileNotFoundException	Thrown if the given file is not found.

Methods

GetReadStream()

Returns a stream to read from.

Declaration

```
public Stream GetReadStream()
```

Returns

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

Stream	An open read-able Stream .
------------------------	--

Remarks

After successful operation the stream will be closed.

GetWriteStream()

Returns a stream to write.

Declaration

```
public Stream GetWriteStream()
```

Returns

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

Stream	An open write-able Stream .
------------------------	---

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
------	-------------

string	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
------	------	-------------

string	<code>text</code>	The text to write to the stream.
------------------------	-------------------	----------------------------------

Implements

[IStreamProvider](#)

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
------	-------------

Stream	An open read-able Stream .
------------------------	--

Remarks

After successful operation the stream will be closed.

GetWriteStream()

Returns a stream to write.

Declaration

```
Stream GetWriteStream()
```

Returns

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

Stream	An open write-able Stream .
------------------------	---

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
------	-------------

string	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
------	------	-------------

string	<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
int	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 <code>data</code> 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
string	storageBasePath	The base path for this json file storage library.
List<Type>	allowedTypes	The allowed types for the objects to add. Must contain at least one type.
ILogger	logger	Logger.
List<string>	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
string	storageBasePath	The base path for this json file storage library.
List<Type>	allowedTypes	The allowed types for the objects to add. Must contain at least one type.
ILogger	logger	Logger.
string[]	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
IReadOnlyCollection<Type>	

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
object	primaryObject	The primary object to add. Must not be null.

[Action<string, int, object>](#) additionalStorageAction Action with is called when file was stored, parameter: fileEntryType, fileNumber, content (object).

[Dictionary<string, string>](#) additionalAttributes Additional attributes to add to the attributes collection.

[object\[\]](#) objects

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>primaryObject</code> is set to null.

[ArgumentOutOfRangeException](#) 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
object	primaryObject	The primary object to add. Must not be null.

[Action<string, int, object>](#) additionalStorageAction Action with is called when file was stored, parameter: fileEntryType, fileNumber, content (object).

[object\[\]](#) objects

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>primaryObject</code> is set to null.

[ArgumentOutOfRangeException](#) 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
object	primaryObject	The primary object to add. Must not be null.

[Dictionary<string, string>](#) additionalAttributes Additional attributes to add to the attributes collection.

[object\[\]](#) objects

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>primaryObject</code> is set to null.

[ArgumentOutOfRangeException](#) 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
object	primaryObject	The primary object to add. Must not be null.
object[]	objects	

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>primaryObject</code> is set to null.
ArgumentOutOfRangeException	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
string	zipFilename	The filename of the zip file. If file does not exist, it will be created.
Dictionary<string, string>	jsonEntries	Dictionary to add additional entries (not in json storage) to the zip file. Can be null.
Func<Dictionary<string, string>, string, string>	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
ArgumentOutOfRangeException	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types (AllowedTypes).

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
string	attribute	The name of the attribute to search the object.
string	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
ArgumentNullException	Thrown if parameter <code>attribute</code> is set to null or Empty .
ArgumentOutOfRangeException	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types (AllowedTypes).
KeyNotFoundException	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
IEnumerable<TType>	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
ArgumentOutOfRangeException	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types (AllowedTypes).

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
string	<code>attribute</code>	The name of the attribute to search the object.
string	<code>attributeValue</code>	The value of the attribute to search the object.

Returns

Type	Description
bool	True if the requested object exists; otherwise false.

Type Parameters

Name	Description
------	-------------

TType The type which should be returned.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>attribute</code> is set to null or Empty .
ArgumentOutOfRangeException	Thrown if the type parameter <code>TType</code> is not in the collection of allowed types (AllowedTypes).

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
Type	primaryObjectType	The type of the primary object to rebuild the index.
Func<string, Type, object>	getObject	Method to fetch the object by filename and type.
Func<string, Dictionary<string, string>>	additionalAttributes	Method to fetch additional attributes depending on filename of primary object filename. Optional.

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>primaryObjectType</code> is set to null.
ArgumentNullException	Thrown if parameter <code>getObject</code> is set to null.

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
MemoryStream	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
------	-------------

Stream	An open read-able Stream .
------------------------	--

Remarks

After successful operation the stream will be closed.

GetWriteStream()

Returns a stream to write.

Declaration

```
public Stream GetWriteStream()
```

Returns

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

Stream	An open write-able Stream .
------------------------	---

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
------	-------------

string	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
------	------	-------------

string	<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
ArgumentNullException	Thrown if parameter <code>data</code> is set to null or Empty .

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
string	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
------	------	-------------

string	data	The data to set.
------------------------	------	------------------

Overrides

[StorageRecord.SetData\(string\)](#)

Exceptions

Type	Condition
ArgumentNullException	Thrown if parameter <code>data</code> is set to null or Empty .

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\(\)](#)

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
IStreamProvider	dataStreamProvider	

Exceptions

Type	Condition
ArgumentNullException	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.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
```