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Add your introductions here!

Namespace RetailForce.Fiscalisation

Classes

[FiscalModulCreator](#)

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.

[LoggingBase](#)

Base class for all classes using logging purposes.

[PropertyValidation](#)

Static class for property validation helpers

[QrCode](#)

Helper class for generating qr codes.

[TrustedFiscalModule](#)

General fiscal interface to call country specific implementation and store data for other purposes (e.g. digital receipt).

[ValidationBase<ValidationErrorType>](#)

[ValidationError](#)

Represents a validation error.

[ValidationPropertyBase<ValidationErrorType>](#)

Base class for all objects with validation.

Interfaces

[IDocumentInterface](#)

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

[IFiscalModullImplementation](#)

A country specific implementation has to implement this interface.

[IFiscalResponseCountryBase](#)

Enums

[ErrorLevel](#)

The type of the error.

Enum ErrorLevel

The type of the error.

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum ErrorLevel
```

Fields

NAME	DESCRIPTION
Error	This is a validation error.
Information	This is a validation information.
Warning	This is a validation warning.

Class FiscalModulCreator

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

Inheritance

System.Object

FiscalModulCreator

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class FiscalModulCreator
```

Constructors

FiscalModulCreator(ConfigurationProviderBase, ILogger)

Constructor.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
ConfigurationProviderBase	configProvider	The provider to load the necessary configuration.
Microsoft.Extensions.Logging.ILogger	logger	The logger for this class.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>configProvider</code> or <code>logger</code> is set to null.

Methods

CreateFiscalModuleForClient(Guid, String)

Creates a fiscal module for a specific client.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	A guid representing the unique clientId for this operation.
System.String	storageBasePath	The base path for the data to store for this module (for log-file, and country-specific data).

Returns

TYPE	DESCRIPTION
TrustedFiscalModule	A TrustedFiscalModule representing the fiscal module for this client.

Exceptions

TYPE	CONDITION
System.Collections.Generic.KeyNotFoundException	Thrown if the given client is not configured.

Class FiscalModuleManagement

Class for managing the fiscal module.

Inheritance

System.Object

FiscalModuleManagement

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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(ConfigurationProviderBase)

Constructor.

Declaration

```
public FiscalModuleManagement(ConfigurationProviderBase configProvider)
```

Parameters

TYPE	NAME	DESCRIPTION
ConfigurationProviderBase	configProvider	The configuration provider for this fiscal module.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>configProvider</code> is set to null.

Methods

CreateClient(FiscalClient)

Creates a client at the fiscal module management.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
FiscalClient	client	The client to create.

Remarks

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

Exceptions

TYPE	CONDITION
System.ComponentModel.DataAnnotations.ValidationException	Thrown if one or more ValidationError occurred when validating the client object.
System.ArgumentNullException	Thrown if <code>client</code> is set to null.

DeleteClient(Guid)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	

GetClient(Guid)

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

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The id of the fiscal client.

Returns

TYPE	DESCRIPTION
FiscalClient	Requested fiscal client.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>clientId</code> is set to null.

GetClients()

Returns all clients stored in the configuration store.

Declaration

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

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<FiscalClient>	

UpdateClient(FiscalClient)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
FiscalClient	client	

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
System.Collections.Generic.List<ValidationError>	A list of ValidationError objects representing the validation errors for the client configuration.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>client</code> is set to null.

Class FiscalResponse

The fiscal response of the fiscalisation system.

Inheritance

System.Object
FiscalResponse

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public sealed class FiscalResponse
```

Remarks

Can be

Properties

AdditionalFields

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Collections.ObjectModel.ReadOnlyDictionary<System.String, System.Object>	

ErrorDescription

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

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

FiscalCountry

The fiscal country for this response.

Declaration

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

Property Value

TYPE	DESCRIPTION
FiscalCountry	

FiscalisationDocumentNumber

The fiscalisation document number.

Declaration

```
[JsonProperty]  
public int FiscalisationDocumentNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

FiscalisationDocumentRevision

The revision of the fiscalisation document.

Declaration

```
[JsonProperty]  
public int FiscalisationDocumentRevision { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Signature

The signature of the security device (country-specific)

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

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
System.String	

Extension Methods

[FiscalResponseGermany.TransactionStartTime\(FiscalResponse\)](#)
[FiscalResponseGermany.TransactionEndTime\(FiscalResponse\)](#)
[FiscalResponseGermany.ProcessData\(FiscalResponse\)](#)
[FiscalResponseGermany.ProcessType\(FiscalResponse\)](#)
[FiscalResponseGermany.TseSignatureCounter\(FiscalResponse\)](#)
[FiscalResponseGermany.TseId\(FiscalResponse\)](#)
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[FiscalResponseGermany.TseHashAlgorithm\(FiscalResponse\)](#)
[FiscalResponseGermany.TsePublicKey\(FiscalResponse\)](#)
[FiscalResponseGermany.TseTimeFormat\(FiscalResponse\)](#)
[FiscalResponseGermany.QrCodeDataString\(FiscalResponse\)](#)

Interface IDocumentInterface

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

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface IDocumentInterface
```

Properties

ProcessingDocumentTypes

Returns all document types which are processed by this interface.

Declaration

```
IReadOnlyList<DocumentType> ProcessingDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

SupportedDocumentTypes

Returns all supported document types by this fiscal module.

Declaration

```
IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

Methods

ValidateDocument(Document)

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

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document to validate.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	The list of document validation errors.

Interface IFiscalModulImplementation

A country specific implementation has to implement this interface.

Inherited Members

[IDocumentInterface.SupportedDocumentTypes](#)

[IDocumentInterface.ProcessingDocumentTypes](#)

[IDocumentInterface.ValidateDocument\(Document\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface IFiscalModulImplementation : IDocumentInterface
```

Properties

AvailableVatDefinitions

Returns all vat objects which are available in this country.

Declaration

```
IReadOnlyList<Vat> AvailableVatDefinitions { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<Vat>	

Methods

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.

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

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

GetDocumentMandatoryFields(Type)

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

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Type	t	The type to get the mandatory fields.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<System.String>	A list of property names representing the mandatory fields for this country implementation.

GetTaxFreeVat()

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

Declaration

```
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.

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.

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
System.Collections.Generic.List< DocumentValidationError >	A list of document validation errors.

Interface IFiscalResponseCountryBase

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface IFiscalResponseCountryBase
```


Class LoggingBase

Base class for all classes using logging purposes.

Inheritance

System.Object

LoggingBase

[TaxonomyStore<T>](#)

[FiskalyConnector](#)

[TseBase](#)

[TrustedFiscalModuleImplementationBase](#)

[FileStorageProvider](#)

[TrustedFiscalModule](#)

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class LoggingBase
```

Remarks

This system is using the Microsoft Extensions Logging Framework.

Constructors

[LoggingBase\(ILogger, String\)](#)

Constructor.

Declaration

```
public LoggingBase(ILogger logger, string logSource)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger for this class.
System.String	logSource	The name of the source when a log entry is written.

Exceptions

TYPE	CONDITION
------	-----------

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>logger</code> or <code>logSource</code> is set to null.

Fields

`_logger`

Declaration

```
protected ILogger _logger
```

Field Value

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	

`_logSource`

Declaration

```
protected string _logSource
```

Field Value

TYPE	DESCRIPTION
System.String	

Methods

`LogCritical(Exception, String, Object[])`

Logs a critical message to the logging system.

Declaration

```
protected void LogCritical(Exception exception, string message, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Exception	exception	The exception for this log message to log.
System.String	message	The message to log.
System.Object[]	args	The arguments for the message.

`LogCritical(String, Object[])`

Logs a critical message to the logging system.

Declaration

```
protected void LogCritical(string message, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	message	The message to log.
System.Object[]	args	The arguments for the message.

LogError(Exception, String, Object[])

Logs a error message to the logging system.

Declaration

```
protected void LogError(Exception exception, string message, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Exception	exception	The exception for this log message to log.
System.String	message	The message to log.
System.Object[]	args	The arguments for the message.

LogError(String, Object[])

Logs a error message to the logging system.

Declaration

```
protected void LogError(string message, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	message	The message to log.
System.Object[]	args	The arguments for the message.

LogWarning(String, Object[])

Logs a warning message to the logging system.

Declaration

```
protected void LogWarning(string message, params object[] args)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	message	The message to log.
System.Object[]	args	The arguments for the message.

Class PropertyValidation

Static class for property validation helpers

Inheritance

System.Object

PropertyValidation

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class PropertyValidation
```

Methods

ProcessRequiredAttributes<RequiredAttributeType>(Type, Action<PropertyInfo>)

Processes all properties of the given type and checks for required attribute (or inherited one).

Declaration

```
public static void ProcessRequiredAttributes<RequiredAttributeType>(Type t, Action<PropertyInfo> action)  
    where RequiredAttributeType : RequiredAttribute
```

Parameters

TYPE	NAME	DESCRIPTION
System.Type	t	The type to check for the properties.
System.Action<System.Reflection.PropertyInfo>	action	The action which should be called if a property has an attribute of type <code>RequiredAttributeType</code> set.

Type Parameters

NAME	DESCRIPTION
RequiredAttributeType	The type of the System.ComponentModel.DataAnnotations.RequiredAttribute to check.

Exceptions

TYPE	CONDITION
------	-----------

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>t</code> or <code>action</code> is set to null.

Class QrCode

Helper class for generating qr codes.

Inheritance

System.Object

QrCode

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class QrCode
```

Methods

GenerateQrCode(String, Int32)

Generates the given string into a System.Drawing.Bitmap showing a qrCode.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	qrCode	The string to convert to a qr code bitmap.
System.Int32	size	The size of the qr code.

Returns

TYPE	DESCRIPTION
System.Drawing.Bitmap	A bitmap containing the created qr code.

GenerateQrCodeBase64(String, Int32, 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
System.String	qrCode	The string to convert to a qr code.
System.Int32	size	The size of the qr code.
System.Drawing.Imaging.ImageFormat	imageFormat	The format of the image, default: png.

Returns

TYPE	DESCRIPTION
System.String	A base64 encoded string containing the qr code of the given string.

GenerateQrCodeFile(String, String, Int32, 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
System.String	qrCode	The string to convert to a qr code image file.
System.String	filename	The filename of the destination file.
System.Int32	size	The size of the qr code.
System.Drawing.Imaging.ImageFormat	imageFormat	The format of the image, default: png.

Class TrustedFiscalModule

General fiscal interface to call country specific implementation and store data for other purposes (e.g. digital receipt).

Inheritance

System.Object

[LoggingBase](#)

TrustedFiscalModule

Implements

System.IDisposable

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

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

Properties

AvailableVatDefinitions

Returns all vat objects which are available in this country.

Declaration

```
public IReadOnlyList<Vat> AvailableVatDefinitions { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< Vat >	

ProcessingDocumentTypes

Returns all document types which are processed by this interface.

Declaration

```
public IReadOnlyList<DocumentType> ProcessingDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

SupportedDocumentTypes

Returns all supported document types by this fiscal module.

Declaration

```
public IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

Methods

CancelDocument(Document)

Cancel 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
System.ArgumentNullException	Thrown if <code>document</code> parameter is set to null.

ClosingBookCashDifference(User, List<Payment>)

Books a cash difference to the fiscalisation system.

Declaration

```
public FiscalResponse ClosingBookCashDifference(User user, List<Payment> paymentToBook)
```

Parameters

TYPE	NAME	DESCRIPTION
User	user	The user who's operating this function.
System.Collections.Generic.List<Payment>	paymentToBook	The difference for the different payment types.

Returns

TYPE	DESCRIPTION
FiscalResponse	The fiscal response for the signed document.

Exceptions

TYPE	CONDITION
System.InvalidOperationException	Thrown if no storage provider of type PaymentStockProvider was added to the internal collection. This occurs when the option SimpleCashPointClosing is not activated at fiscal client.
System.ArgumentNullException	Thrown if parameters <code>user</code> or <code>paymentToBook</code> are set to null.

ClosingBookCashLift(User, List<Payment>, Boolean)

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)
```

Parameters

TYPE	NAME	DESCRIPTION
User	user	The user who's operating this function.
System.Collections.Generic.List<Payment>	payments	The payments according to parameter <code>isStockAmount</code> .
System.Boolean	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.

Returns

TYPE	DESCRIPTION
FiscalResponse	The fiscal response for the signed document.

Exceptions

TYPE	CONDITION
System.InvalidOperationException	Thrown if no storage provider of type PaymentStockProvider was added to the internal collection. This occurs when the option SimpleCashPointClosing is not activated at fiscal client.
System.ArgumentNullException	Thrown if parameters <code>user</code> or <code>payments</code> are set to null.

ClosingBookOpeningStock(User, List<Payment>)

Book the opening stock for a cash register closing statement.

Declaration

```
public FiscalResponse ClosingBookOpeningStock(User user, List<Payment> openingStockPayment)
```

Parameters

TYPE	NAME	DESCRIPTION
User	user	The user who's operating this function.
System.Collections.Generic.List< Payment >	openingStockPayment	The opening stock for the individual payment types.

Returns

TYPE	DESCRIPTION
FiscalResponse	The fiscal response for the signed document.

Exceptions

TYPE	CONDITION
System.InvalidOperationException	Thrown if no storage provider of type PaymentStockProvider was added to the internal collection. This occurs when the option SimpleCashPointClosing is not activated at fiscal client.
System.IO.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
System.Collections.Generic.List< Payment >	paymentsToCheck	A list of payments and their respective amounts to check. Attention:

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Payment >	A list of payments with difference (or an empty list if there's no difference).

Exceptions

TYPE	CONDITION
System.InvalidOperationException	Thrown if no storage provider of type PaymentStockProvider was added to the internal collection. This occurs when the option SimpleCashPointClosing is not activated at fiscal client.
System.IO.InvalidDataException	Thrown if UniqueReadablePaymentIdentifier is not set at every payment of the list.

ClosingCashPointClose(User, List<Payment>, Boolean)

Closes the actual day with a closing statement.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
User	user	The user who's operating this function.
System.Collections.Generic.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.
System.Boolean	raiseCashDifferenceException	True if a cashpoint check has to be evaluated in front and an exception will raised if there is a cash difference; otherwise false. Setting this parameter to true the parameter <code>paymentsToCheck</code> must not be null.

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
FiscalResponse	A FiscalResponse object for the booked cashpoint closing (end of day).

Exceptions

TYPE	CONDITION
System.InvalidOperationException	Thrown if no storage provider of type PaymentStockProvider was added to the internal collection. This occurs when the option SimpleCashPointClosing is not activated at fiscal client.
System.ArgumentNullException	Thrown if parameter <code>paymentsToCheck</code> is set to null and parameter <code>raiseCashDifferenceException</code> is set to true.
System.IO.InvalidDataException	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
System.Collections.Generic.List< Payment >	A list of payment values representing the actual payment stock.

Exceptions

TYPE	CONDITION
System.InvalidOperationException	Thrown if no storage provider of type PaymentStockProvider was added to the internal collection. This occurs when the option SimpleCashPointClosing is not activated at fiscal client.

CreateDocument(DocumentType)

Creates a document in the fiscal environment.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION

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.

Dispose()

Declaration

```
public void Dispose()
```

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
System.String	typeName	The name of the requested type. Must be in namespace RetailForce.Fiscalisation.Model.Document .

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<System.String>	A list of property names representing the mandatory fields for this country implementation.

Exceptions

TYPE	CONDITION
System.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
System.Type	t	The type to get the mandatory fields.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<System.String>	A list of property names representing the mandatory fields for this country implementation.

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
System.Guid	uniqueClientId	The client for whom the path is requested.

Returns

TYPE	DESCRIPTION
System.String	The standard local store path for the individual client given by <code>uniqueClientId</code> .

GetStaticStandardLocalStorePath()

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

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	The standard local store path if there's no other path configured.

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.

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\(DocumentType\)](#).

Exceptions

TYPE	CONDITION
System.ComponentModel.DataAnnotations.ValidationException	Thrown if one or more document validation errors where raised. You can use ValidateDocument(Document) to test if your document has validation errors.
System.ArgumentNullException	Thrown if <code>document</code> parameter is set to null.
System.InvalidOperationException	Thrown if Document.UniqueClientId is set to System.Guid.Empty or given clientid does not match fiscal client guid.

ValidateDocument(Document)

Validates a document against all attached data queue elements.

Declaration

```
public List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document to validate.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects representing all errors and warnings for the given document.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>document</code> parameter is set to null.

Implements

System.IDisposable

Class ValidationBase<ValidationErrorType>

Inheritance

System.Object

ValidationBase<ValidationErrorType>

[ValidationPropertyBase<ValidationErrorType>](#)

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public abstract class ValidationBase<ValidationErrorType>
    where ValidationErrorType : ValidationError
```

Type Parameters

NAME	DESCRIPTION
ValidationErrorType	

Properties

VALIDATION_ERROR_SOURCE

Override in inherited classes to set the correct validation error source.

Declaration

```
protected abstract string VALIDATION_ERROR_SOURCE { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

Validate()

Validates the document element and returns a list of [ValidationError](#) objects.

Declaration

```
public virtual List<ValidationPropertyBase> Validate()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<ValidationErrorMessage>	A list of ValidationErrorMessage objects.

Remarks

Validates all required properties marked by `System.ComponentModel.DataAnnotations.RequiredAttribute` and calls protected method [ValidateElement\(\)](#).

ValidateElement()

Validates the element with element specific validation and returns a list of validation errors.

Declaration

```
protected abstract List<ValidationErrorMessage> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<ValidationErrorMessage>	A list of ValidationErrorMessage objects.

Class ValidationError

Represents a validation error.

Inheritance

System.Object

ValidationError

[DocumentValidationError](#)

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class ValidationError
```

Constructors

[ValidationError](#)(ErrorLevel, String, String)

Constructor.

Declaration

```
public ValidationError(ErrorLevel errorLevel, string errorText, string errorSource = "")
```

Parameters

TYPE	NAME	DESCRIPTION
ErrorLevel	errorLevel	The level of the error (errortype). Possible values are error, warning and information. See ErrorLevel for more information.
System.String	errorText	The description of the error.
System.String	errorSource	The source module of the error. If omitted "Document" is assumed.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>errorText</code> is set to null or empty string.

Properties

[ErrorLevel](#)

The level of the error (errortype). Possible values are error, warning and information. See [ErrorLevel](#) for more information.

Declaration

```
public ErrorLevel ErrorLevel { get; protected set; }
```

Property Value

TYPE	DESCRIPTION
ErrorLevel	

ErrorSource

The source module of the error.

Declaration

```
public string ErrorSource { get; protected set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ErrorText

The description of the error.

Declaration

```
public string ErrorText { get; protected set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString()

Returns the string representation for this [ValidationError](#).

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	The string representation for this ValidationError .

Overrides

System.Object.ToString()

Class ValidationPropertyBase<ValidationErrorType>

Base class for all objects with validation.

Inheritance

System.Object

[ValidationBase<ValidationErrorType>](#)

ValidationPropertyBase<ValidationErrorType>

[ConfigurationValidationBase](#)

[DocumentValidationBase](#)

Inherited Members

[ValidationBase<ValidationErrorType>.VALIDATION_ERROR_SOURCE](#)

[ValidationBase<ValidationErrorType>.ValidateElement\(\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public abstract class ValidationPropertyBase<ValidationErrorType> : ValidationBase<ValidationErrorType> where ValidationErrorType : ValidationError
```

Type Parameters

NAME	DESCRIPTION
ValidationErrorType	

Methods

AddPropertyError(ErrorLevel, String, String, String)

Adds a property attribute error with to correct implementation of ValidationErrorType.

Declaration

```
protected abstract ValidationErrorType AddPropertyError(ErrorLevel level, string declaringTypeName, string propertyName, string errorString)
```

Parameters

TYPE	NAME	DESCRIPTION
ErrorLevel	level	The level of the property error.
System.String	declaringTypeName	The name of the declaring type of the property with the validation error.

TYPE	NAME	DESCRIPTION
System.String	propertyName	The name of the property with the validation error.
System.String	errorString	The error description of the property error.

Returns

TYPE	DESCRIPTION
ValidationErrorType	An object of type <code>ValidationErrorType</code> representing the <code>ValidationError</code> .

Validate()

Validates the document element and returns a list of [ValidationError](#) objects.

Declaration

```
public override List<ValidationErrorType> Validate()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<ValidationErrorType>	A list of ValidationError objects.

Overrides

`RetailForce.Fiscalisation.ValidationBase<ValidationErrorType>.Validate()`

Remarks

Validated all required properites marked by `System.ComponentModel.DataAnnotations.RequiredAttribute` and calls protected method .

ValidateProperties()

Validates all required properties and returns corresponding error if a required property is missing.

Declaration

```
protected List<ValidationErrorType> ValidateProperties()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<ValidationErrorType>	A list of ValidationError objects.

ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

Validates all required properties (with attribute of an object implementing `RequiredAttributeType`) and returns corresponding error if a required property is missing.

Declaration


```
protected List<ValidationErrorType> ValidatePropertiesAbstract<RequiredAttributeType>(bool recursive = false)
    where RequiredAttributeType : RequiredAttribute
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	recursive	True if object properties should also be checked; otherwise false.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<ValidationErrorType>	A list of ValidationError objects.

Type Parameters

NAME	DESCRIPTION
RequiredAttributeType	

Namespace RetailForce.Fiscalisation.Configuration

Classes

[Address](#)

Adress 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.

[FileConfigurationProvider](#)

Configuration provider with file access (one file for all clients).

[FiscalClient](#)

Represents a single fiscal client (representation of a cash register)

[JsonConfiguration](#)

The Json configuration class for the list of clients.

[JsonConfigurationProviderBase](#)

Base class to read configuration from json string.

[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.

Class Address

Address object.

Inheritance

System.Object

Address

[Partner](#)

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class Address
```

Properties

City

Declaration

```
[Required]  
public string City { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CountryCode

Countrycode according ISO 3166 alpha-3

Declaration

```
[Required]  
public string CountryCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FullStreet

returns the combination of street and street number

Declaration

```
public string FullStreet { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PostalCode

Declaration

```
[Required]  
public string PostalCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Street

Declaration

```
[Required]  
public string Street { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StreetNumber

Declaration

```
[Required]  
public string StreetNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class CashRegister

A single cash Register

Inheritance

System.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>.ValidateProperties()

ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class CashRegister : ConfigurationValidationBase
```

Properties

Brand

The manufacturer of the hardware cashregister.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.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
System.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

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

Property Value

TYPE	DESCRIPTION
System.String	

Modelname

The model name of the hardware cashregister.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

SerialNumber

The serial number of the cashregister.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Software

The used cashregister software and it's version.

Declaration

```
public Software Software { get; set; }
```

Property Value

TYPE	DESCRIPTION
Software	

Class ClientConfigurationJsonConverter

Json Converter to read client configuration

Inheritance

System.Object

Newtonsoft.Json.JsonConverter

ClientConfigurationJsonConverter

Inherited Members

Newtonsoft.Json.JsonConverter.CanRead

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class ClientConfigurationJsonConverter : JsonConverter
```

Properties

CanWrite

Declaration

```
public override bool CanWrite { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Overrides

Newtonsoft.Json.JsonConverter.CanWrite

Methods

CanConvert(Type)

Declaration

```
public override bool CanConvert(Type objectType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Type	objectType	

Returns

TYPE	DESCRIPTION
System.Boolean	

Overrides

Newtonsoft.Json.JsonConverter.CanConvert(System.Type)

ReadJson(JsonReader, Type, Object, JsonSerializer)

Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

Parameters

TYPE	NAME	DESCRIPTION
Newtonsoft.Json.JsonReader	reader	
System.Type	objectType	
System.Object	existingValue	
Newtonsoft.Json.JsonSerializer	serializer	

Returns

TYPE	DESCRIPTION
System.Object	

Overrides

Newtonsoft.Json.JsonConverter.ReadJson(Newtonsoft.Json.JsonReader, System.Type, System.Object, Newtonsoft.Json.JsonSerializer)

WriteJson(JsonWriter, Object, JsonSerializer)

Declaration

```
public override void WriteJson(JsonWriter writer, object value, JsonSerializer serializer)
```

Parameters

TYPE	NAME	DESCRIPTION
Newtonsoft.Json.JsonWriter	writer	
System.Object	value	
Newtonsoft.Json.JsonSerializer	serializer	

Overrides

Newtonsoft.Json.JsonConverter.WriteJson(Newtonsoft.Json.JsonWriter, System.Object, Newtonsoft.Json.JsonSerializer)

Class CompanyIdentification

Represents a company identification number (vat number, tax number, ...)

Inheritance

System.Object

CompanyIdentification

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

Type

The type of the identification.

Declaration

```
public 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

```
public enum IdentificationType
```

Fields

NAME	DESCRIPTION
GlnNumber	
TaxNumber	
VatNumber	

Class ConfigurationProviderBase

Abstract configuration provider to load the configuration for the fiscal system.

Inheritance

System.Object

ConfigurationProviderBase

[JsonConfigurationProviderBase](#)

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.Generic.Dictionary<System.Guid, FiscalClient >	

Methods

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.

GetClientConfiguration(Guid)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	

Returns

TYPE	DESCRIPTION
FiscalClient	

GetClients()

Gets a list of all available clients stored at the system.

Declaration

```
public Guid[] GetClients()
```

Returns

TYPE	DESCRIPTION
System.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()
```

Class ConfigurationValidationBase

Base class for all configuration objects with validation.

Inheritance

System.Object

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

ConfigurationValidationBase

[CashRegister](#)

[FiscalClient](#)

[ClientConfiguration](#)

[TaxonomyStoreConfiguration](#)

[TseConfiguration](#)

Inherited Members

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

Overrides

RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.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
ErrorLevel	level	The level of the property error.
System.String	declaringTypeName	The name of the declaring type of the property with the validation error.
System.String	propertyName	The name of the property with the validation error.
System.String	errorString	The error description of the property error.

Returns

TYPE	DESCRIPTION
ValidationError	The created ValidationError .

Overrides

RetailForce.Fiscalisation.ValidationPropertyBase<RetailForce.Fiscalisation.ValidationError>.AddPropertyError(RetailForce.Fiscalisation.ErrorLevel, System.String, System.String, System.String)

ValidateCountrySpecificProperty<CountryRequiredAttributeType>()

Declaration

```
public List<ValidationError> ValidateCountrySpecificProperty<CountryRequiredAttributeType>()
    where CountryRequiredAttributeType : RequiredAttribute
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.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
System.Collections.Generic.List< ValidationError >	A list of ValidationError objects.

Overrides

RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.ValidationError>.ValidateElement()

Class FileConfigurationProvider

Configuration provider with file access (one file for all clients).

Inheritance

System.Object

[ConfigurationProviderBase](#)

[JsonConfigurationProviderBase](#)

FileConfigurationProvider

Inherited Members

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

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

[ConfigurationProviderBase.Clients](#)

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

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

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

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class FileConfigurationProvider : JsonConfigurationProviderBase
```

Constructors

FileConfigurationProvider(String)

Constructor.

Declaration

```
public FileConfigurationProvider(string configurationFile)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	configurationFile	The path to the configuration file. If no configuration file is found a new one is created.

Exceptions

TYPE	CONDITION
System.IO.DirectoryNotFoundException	Thrown if the path of the given <code>configurationFile</code> is not found.
System.ArgumentNullException	Thrown if <code>configurationFile</code> is set to null or empty string.

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\(\)](#)

Class FiscalClient

Represents a single fiscal client (representation of a cash register)

Inheritance

System.Object

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

FiscalClient

Implements

System.IEquatable<[FiscalClient](#)>

Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION_ERROR_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class FiscalClient : ConfigurationValidationBase, IEquatable<FiscalClient>
```

Properties

CashRegister

Information about the cash register.

Declaration

```
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

```
public Address CompanyAddress { get; set; }
```

Property Value

TYPE	DESCRIPTION
Address	

CompanyIdentification

The company identification.

Declaration

```
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
System.String	

Remarks

It is necessary that this is the correct name according to country specific law.

CompanyTaxNumber

The tax number of the company

Declaration

```
public string CompanyTaxNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CompanyVatNumber

The vat number of the company

Declaration

```
public string CompanyVatNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DistributerId

The distributor id for the license for the fiscal client.

Declaration

```
public Guid DistributerId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

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

FiscalModullImplementationConfiguration

The configuration for the country specific implementation.

Declaration

```
[Required]  
public IFiscalImplementationConfiguration FiscalModullImplementationConfiguration { get; set; }
```

Property Value

TYPE	DESCRIPTION
IFiscalImplementationConfiguration	

LicenseConsumerId

The licence consumer (buyer) of the license for this fiscal client.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Guid	

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
System.Boolean	

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
System.String	

StoreNumber

The identification (number or string) of the store.

Declaration

```
[Required]
public string StoreNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

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
System.String	

TestClient

True if this client is a test client; otherwise false.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Boolean	

UniqueClientId

Represents the unique client id of the fiscal client.

Declaration

```
[Required]
public Guid UniqueClientId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Methods

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
System.Boolean	True if the given FiscalClient has the same UniqueClientId than the current object.

ToString()

Returns the client as string representation.

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	

Overrides

System.Object.ToString()

Implements

System.IEquatable<T>

Enum FiscalCountry

Supported countries.

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum FiscalCountry
```

Fields

NAME	DESCRIPTION
Germany	

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	

Class JsonConfiguration

The Json configuration class for the list of clients.

Inheritance

System.Object

JsonConfiguration

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.Generic.List< FiscalClient >	clients	

Properties

FiscalClients

The list of fiscal clients.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< FiscalClient >	

Class JsonConfigurationProviderBase

Base class to read configuration from json string.

Inheritance

System.Object

[ConfigurationProviderBase](#)

JsonConfigurationProviderBase

[FileConfigurationProvider](#)

Inherited Members

[ConfigurationProviderBase.Clients](#)

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

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

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

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

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

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.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
System.String	jsonConfigurationString	

GetJsonConfiguration()

Returns a string containing the json configuration.

Declaration

```
protected string GetJsonConfiguration()
```

Returns

TYPE	DESCRIPTION
System.String	The json string containing the configuration for the clients.

Class Software

Cashregister software information.

Inheritance

System.Object

Software

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Configuration](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class Software
```

Properties

Brand

The name of the used cashregister software.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Version

The actual version of the used cashregister software.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Namespace RetailForce.Fiscalisation.Constants

Classes

[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 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

System.Object

TaxonomyStoreConstants

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Constants](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class TaxonomyStoreConstants
```

Fields

FS_CASHPOINTCLOSING_FILE_ENTRY

Cashpoint closing

Declaration

```
public const string FS_CASHPOINTCLOSING_FILE_ENTRY = "CashpointClosing.json"
```

Field Value

TYPE	DESCRIPTION
System.String	

FS_CASHPOINTCLOSINGHEAD_FILE_ENTRY

Cashpoint closing head

Declaration

```
public const string FS_CASHPOINTCLOSINGHEAD_FILE_ENTRY = "Head.json"
```

Field Value

TYPE	DESCRIPTION
System.String	

FS_FILE_INITIAL_CLOSINGNUMBER

Initial closing number (first closing number)

Declaration

```
public const int FS_FILE_INITIAL_CLOSINGNUMBER = 1
```

Field Value

TYPE	DESCRIPTION
System.Int32	

FS_FILE_NAME_FORMAT

File store file name 0: date format (yyyyMMdd) 1: cashpoint closing number

Declaration

```
public static readonly string FS_FILE_NAME_FORMAT
```

Field Value

TYPE	DESCRIPTION
System.String	

FS_REFERENCE_FILE_NAME

File name of reference file

Declaration

```
public static readonly string FS_REFERENCE_FILE_NAME
```

Field Value

TYPE	DESCRIPTION
System.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
System.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
System.String	

Namespace RetailForce.Fiscalisation.Entities

Classes

[LimitedQueue<T>](#)

[LogError<T>](#)

[LogMessage<T>](#)

[ZipFileExtended](#)

Zip Utils this is only public so we can use it on our unit tests (which is not 100% optimal)

Class LimitedQueue<T>

Inheritance

System.Object

LimitedQueue<T>

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class LimitedQueue<T>
```

Type Parameters

NAME	DESCRIPTION
T	

Constructors

LimitedQueue(Int32)

Constructor

Declaration

```
public LimitedQueue(int size)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	size	

Properties

_size

Limit

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

Methods

Enqueue(T)

Declaration

```
public void Enqueue(T obj)
```

Parameters

TYPE	NAME	DESCRIPTION
T	obj	

GetAll()

Get all

Declaration

```
public List<T> GetAll()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<T>	

TryDequeue(out T)

Dequeue

Declaration

```
public bool TryDequeue(out T result)
```

Parameters

TYPE	NAME	DESCRIPTION
T	result	

Returns

TYPE	DESCRIPTION
System.Boolean	

Class LogError<T>

Inheritance

System.Object

[LogMessage<T>](#)

LogError<T>

Inherited Members

[LogMessage<T>.Timestamp](#)

[LogMessage<T>.Level](#)

[LogMessage<T>.State](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class LogError<T> : LogMessage<T>
```

Type Parameters

NAME	DESCRIPTION
T	

Properties

Exception

Exception

Declaration

```
public Exception Exception { get; }
```

Property Value

TYPE	DESCRIPTION
System.Exception	

Methods

ToString()

ToString

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	

Overrides

RetailForce.Fiscalisation.Entities.LogMessage<T>.ToString()

Class LogMessage<T>

Inheritance

System.Object
LogMessage<T>
[LogError<T>](#)

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class LogMessage<T>
```

Type Parameters

NAME	DESCRIPTION
T	

Properties

Level

Log level

Declaration

```
public LogLevel Level { get; }
```

Property Value

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.LogLevel	

State

State

Declaration

```
public T State { get; }
```

Property Value

TYPE	DESCRIPTION
T	

Timestamp

Timestamp

Declaration

```
public DateTime Timestamp { get; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

Methods

ToString()

ToString

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	

Overrides

System.Object.ToString()

Class ZipFileExtended

Zip Utils this is only public so we can use it on our unit tests (which is not 100% optimal)

Inheritance

System.Object

ZipFileExtended

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Entities](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class ZipFileExtended
```

Methods

AddJsonEntry<T>(String, T)

Adds object as json

Declaration

```
public void AddJsonEntry<T>(string entryName, T entry)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	entryName	
T	entry	

Type Parameters

NAME	DESCRIPTION
T	

Contains(String, Boolean)

Check if zip contains entry

Declaration

```
public bool Contains(string entryName, bool ignoreCase = true)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	entryName	
System.Boolean	ignoreCase	

Returns

TYPE	DESCRIPTION
System.Boolean	

Create(String)

Create new zip file

Declaration

```
public static ZipFileExtended Create(string file)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	file	

Returns

TYPE	DESCRIPTION
ZipFileExtended	

GetEntries()

Get Entries

Declaration

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

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetJsonEntry<T>(String)

Get json entry

Declaration

```
public T GetJsonEntry<T>(string entryName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	entryName	

Returns

TYPE	DESCRIPTION
T	

Type Parameters

NAME	DESCRIPTION
T	

Open(String)

Zip file extended

Declaration

```
public static ZipFileExtended Open(string file)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	file	

Returns

TYPE	DESCRIPTION
ZipFileExtended	

Remove(String)

Remove entry

Declaration

```
public bool Remove(string entryName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	entryName	

Returns

TYPE	DESCRIPTION
System.Boolean	

Namespace RetailForce.Fiscalisation.Implementation

Classes

[TrustedFiscalModuleImplementationBase](#)

Class TrustedFiscalModuleImplementationBase

Inheritance

System.Object

[LoggingBase](#)

TrustedFiscalModuleImplementationBase

[TrustedFiscalModuleGermany](#)

Implements

[IFiscalModulImplementation](#)

[IDocumentInterface](#)

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation](#)

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

Syntax

```
public abstract class TrustedFiscalModuleImplementationBase : LoggingBase, IFiscalModulImplementation, IDocumentInterface
```

Constructors

[TrustedFiscalModuleImplementationBase\(ILogger, String\)](#)

Constructor.

Declaration

```
public TrustedFiscalModuleImplementationBase(ILogger logger, string logSource)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	The logger for this class.
System.String	logSource	The name of the source when a log entry is written.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>logger</code> or <code>logSource</code> is set to null.

Properties

AvailableVatDefinitions

Returns all vat objects which are available in this country.

Declaration

```
public abstract IReadOnlyList<Vat> AvailableVatDefinitions { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<Vat>	

ProcessingDocumentTypes

Returns all document types which are processed by this interface.

Declaration

```
public abstract IReadOnlyList<DocumentType> ProcessingDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<DocumentType>	

SupportedDocumentTypes

Returns all supported document types by this fiscal module.

Declaration

```
public abstract IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<DocumentType>	

Methods

CancelDocument(Document)

Cancels 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.

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

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

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
System.Type	t	The type to get the mandatory fields.

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<System.String>	A list of property names representing the mandatory fields for this country implementation.

GetTaxFreeVat()

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

Declaration

```
public abstract 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.

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.

ValidateDocument(Document)

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

Declaration

```
public abstract List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document to validate.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	The list of document validation errors.

ValidateFiscalClient(Document)

Validates the fiscal client for the given document.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document containing the fiscal client.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of document validation errors.

Implements

[IFiscalModulImplementation](#)

[IDocumentInterface](#)

Namespace RetailForce.Fiscalisation.Implementation.Austria

Classes

[TrustedFiscalModuleAustria](#)

Interfaces

[ISignageInterface](#)

Interface ISignageInterface

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface ISignageInterface
```

Class TrustedFiscalModuleAustria

Inheritance

System.Object

TrustedFiscalModuleAustria

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Austria](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TrustedFiscalModuleAustria
```

Namespace

RetailForce.Fiscalisation.Implementation.Austria.Smartcard

Classes

[ATrustCard](#)

[SmartcardBase](#)

Class ATrustCard

Inheritance

System.Object

ATrustCard

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Smartcard](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class ATrustCard
```

Class SmartcardBase

Inheritance

System.Object
SmartcardBase

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Austria.Smartcard](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class SmartcardBase
```

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](#).

[GermanFiscalisationRequiredAttribute](#)

Attribute for properties of objects which are necessary for german fiscalisation.

[GermanyValidation](#)

[TaxonomyCloudStoreConfigruation](#)

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.

Interfaces

[ITseInterface](#)

Enums

[TseDriver](#)

The actual implemented Tse Driver for german fiscalisation.

Class ClientConfiguration

The german country specific configuration for the client.

Inheritance

System.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>.ValidateProperties()

ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 TaxonomyCloudStoreConfigruation 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	

Implements

[IFiscalImplementationConfiguration](#)

Class DocumentModelExtensions

Adds certain functionality for document model only needed for german fiscalisation.

Inheritance

System.Object

DocumentModelExtensions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.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
System.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
System.String	The caption of this position.

Class FiscalResponseGermany

Fiscal response for germany fiscal implementation. Derived from [FiscalResponse](#).

Inheritance

System.Object

FiscalResponseGermany

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.ObjectModel.ReadOnlyDictionary<System.String, System.Object>	additionalFields	The dictionary of all country specific fields.

Exceptions

TYPE	CONDITION
System.MissingMemberException	Thrown if a country specific field is missing.

GetFiscalResponseGermany(Int32, Int32, String, String, String, Int64, Int64, Int64, String, String, String, String, String, String, Int64)

Returns the fiscal response for germany out of the given parameters.

Declaration

```
public static FiscalResponse GetFiscalResponseGermany(int fiscalDocumentNumber, int fiscalDocumentRevision, string signature, string errorDescription, string qrCodeDataString, long tseId, long transactionStartTime, long transactionEndTime, string processData, string processtype, string tseSerial, string tseTimeFormat, string tseHashAlgorithm, string tsePublicKey, long tseSignatureCounter)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	fiscalDocumentNumber	The fiscalisation document number.
System.Int32	fiscalDocumentRevision	The revision of the fiscalisation document.
System.String	signature	The signature of the security device (country-specific)
System.String	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
System.String	qrCodeDataString	The QR code data string according to Appendix I of DSFinV-K.
System.Int64	tseId	The identifier of the tss module.
System.Int64	transactionStartTime	The start time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
System.Int64	transactionEndTime	The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
System.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".
System.String	processType	The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".
System.String	tseSerial	The serialnumber of the tss module.
System.String	tseTimeFormat	The time format which is used by the tss.
System.String	tseHashAlgorithm	The hash algorithm which is used by the tss.
System.String	tsePublicKey	The public key of the tss.
System.Int64	tseSignatureCounter	The actual signature counter of the tss after signing the transaction.

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
System.String	

ProcessType(FiscalResponse)

The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".

Declaration

```
public static string Procestype(this FiscalResponse fiscalResponse)
```

Parameters

TYPE	NAME	DESCRIPTION
FiscalResponse	fiscalResponse	

Returns

TYPE	DESCRIPTION
System.String	

QrCodeDataString(FiscalResponse)

The QR code data string according to Appendix I of DSFinV-K.

Declaration

```
public static string QrCodeDataString(this FiscalResponse fiscalResponse)
```

Parameters

TYPE	NAME	DESCRIPTION
FiscalResponse	fiscalResponse	

Returns

TYPE	DESCRIPTION
System.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
System.Int64	

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
System.Int64	

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
System.String	

TseId(FiscalResponse)

The identifier of the tss module.

Declaration

```
public static long TseId(this FiscalResponse fiscalResponse)
```

Parameters

TYPE	NAME	DESCRIPTION
FiscalResponse	fiscalResponse	

Returns

TYPE	DESCRIPTION
System.Int64	

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
System.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
System.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
System.Int64	

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
System.String	

Class GermanFiscalisationRequiredAttribute

Attribute for properties of objects which are necessary for german fiscalisation.

Inheritance

System.Object
System.Attribute
System.ComponentModel.DataAnnotations.ValidationAttribute
System.ComponentModel.DataAnnotations.RequiredAttribute
GermanFiscalisationRequiredAttribute

Inherited Members

System.ComponentModel.DataAnnotations.RequiredAttribute.IsValid(System.Object)
System.ComponentModel.DataAnnotations.RequiredAttribute.AllowEmptyStrings
System.ComponentModel.DataAnnotations.ValidationAttribute.FormatErrorMessage(System.String)
System.ComponentModel.DataAnnotations.ValidationAttribute.GetValidationResult(System.Object, System.ComponentModel.DataAnnotations.ValidationContext)
System.ComponentModel.DataAnnotations.ValidationAttribute.IsValid(System.Object, System.ComponentModel.DataAnnotations.ValidationContext)
System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object, System.ComponentModel.DataAnnotations.ValidationContext)
System.ComponentModel.DataAnnotations.ValidationAttribute.Validate(System.Object, System.String)
System.ComponentModel.DataAnnotations.ValidationAttribute.ErrorMessage
System.ComponentModel.DataAnnotations.ValidationAttribute.ErrorMessageResourceName
System.ComponentModel.DataAnnotations.ValidationAttribute.ErrorMessageResourceType
System.ComponentModel.DataAnnotations.ValidationAttribute.ErrorMessageString
System.ComponentModel.DataAnnotations.ValidationAttribute.RequiresValidationContext
System.Attribute.Equals(System.Object)
System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)
System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)
System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)
System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Module)
System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)
System.Attribute.GetHashCode()

System.Attribute.IsDefaultAttribute()
System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)
System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)
System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)
System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)
System.Attribute.IsDefined(System.Reflection.Module, System.Type)
System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)
System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)
System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)
System.Attribute.Match(System.Object)
System.Attribute.TypeId
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class GermanFiscalisationRequiredAttribute : RequiredAttribute
```

Class GermanyValidation

Inheritance

System.Object
GermanyValidation

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class GermanyValidation
```

Fields

SupportedBusinessTypesMapping

Declaration

```
public static readonly ReadOnlyDictionary<BusinessTransactionType, BusinessCaseType>  
SupportedBusinessTypesMapping
```

Field Value

TYPE	DESCRIPTION
System.Collections.ObjectModel.ReadOnlyDictionary< BusinessTransactionType , BusinessCaseType >	

SupportedBuyerTypeMapping

Declaration

```
public static readonly ReadOnlyDictionary<string, BuyerType> SupportedBuyerTypeMapping
```

Field Value

TYPE	DESCRIPTION
System.Collections.ObjectModel.ReadOnlyDictionary<System.String, BuyerType >	

SupportedDocumentTypesMapping

Declaration

```
public static readonly ReadOnlyDictionary<DocumentType, TransactionType> SupportedDocumentTypesMapping
```

Field Value

TYPE	DESCRIPTION
System.Collections.ObjectModel.ReadOnlyDictionary< DocumentType , TransactionType >	

SupportedVatDefinitions

Declaration

```
public static readonly ReadOnlyCollection<Vat> SupportedVatDefinitions
```

Field Value

TYPE	DESCRIPTION
System.Collections.ObjectModel.ReadOnlyCollection<Vat>	

Properties

SupportedDocumentTypes

Represents the supported document types by germany fiscalisation.

Declaration

```
public static List<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.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
System.Collections.Generic.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
System.Collections.Generic.List< DocumentValidationError >	errorList	
FiscalResponse	fiscalResponse	

Interface ITseInterface

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface ITseInterface
```


Class TaxonomyCloudStoreConfigruation

The configuration for the cloud taxonomy store (DS-FinVK).

Inheritance

System.Object

ValidationBase<ValidationError>

ValidationPropertyBase<ValidationError>

ConfigurationValidationBase

TaxonomyStoreConfiguration

TaxonomyCloudStoreConfigruation

Inherited Members

TaxonomyStoreConfiguration.Compress

ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>()

ConfigurationValidationBase.VALIDATION_ERROR_SOURCE

ConfigurationValidationBase.AddPropertyError(ErrorLevel, String, String, String)

ConfigurationValidationBase.ValidateElement()

ValidationPropertyBase<ValidationError>.Validate()

ValidationPropertyBase<ValidationError>.ValidateProperties()

ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TaxonomyCloudStoreConfigruation : TaxonomyStoreConfiguration
```

Properties

CloudBaseUrl

The basic url where the taxonomy cloud store resides.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Class TaxonomyFileStoreConfiguration

The configuration for the local taxonomy store (DS-FinVK).

Inheritance

System.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>.ValidateProperties()

ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

Class TaxonomyStoreConfiguration

Base class for taxonomy store configuration

Inheritance

System.Object

[ValidationBase<ValidationError>](#)

[ValidationPropertyBase<ValidationError>](#)

[ConfigurationValidationBase](#)

[TaxonomyStoreConfiguration](#)

[TaxonomyCloudStoreConfiguation](#)

[TaxonomyFileStoreConfiguration](#)

Inherited Members

[ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>\(\)](#)

[ConfigurationValidationBase.VALIDATION_ERROR_SOURCE](#)

[ConfigurationValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ConfigurationValidationBase.ValidateElement\(\)](#)

[ValidationPropertyBase<ValidationError>.Validate\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.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
System.Boolean	

Class TrustedFiscalModuleGermany

Implementation for fiscal regulations in germany.

Inheritance

System.Object

[LoggingBase](#)

[TrustedFiscalModuleImplementationBase](#)

TrustedFiscalModuleGermany

Implements

[IFiscalModulImplementation](#)

[IDocumentInterface](#)

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public sealed class TrustedFiscalModuleGermany : TrustedFiscalModuleImplementationBase,
    IFiscalModulImplementation, IDocumentInterface
```

Constructors

[TrustedFiscalModuleGermany\(ILogger, Guid, ClientConfiguration\)](#)

Constructor.

Declaration

```
public TrustedFiscalModuleGermany(ILogger logger, Guid clientId, ClientConfiguration configuration)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	logger	
System.Guid	clientId	
ClientConfiguration	configuration	

Properties

AvailableVatDefinitions

Returns all vat objects which are available in this country.

Declaration

```
public override IReadOnlyList<Vat> AvailableVatDefinitions { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< Vat >	

Overrides

[TrustedFiscalModuleImplementationBase.AvailableVatDefinitions](#)

ProcessingDocumentTypes

Returns all document types processed by this fiscal interface.

Declaration

```
public override IReadOnlyList<DocumentType> ProcessingDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

Overrides

[TrustedFiscalModuleImplementationBase.ProcessingDocumentTypes](#)

Remarks

The difference between supported and processed documents is that some documents are supported but not processed by this module.

SupportedDocumentTypes

Returns all document types supported by this fiscal interface.

Declaration

```
public override IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

Overrides

[TrustedFiscalModuleImplementationBase.SupportedDocumentTypes](#)

TseStatus

Returns the status of the tse.

Declaration

```
public TseStatus TseStatus { get; }
```

Property Value

TYPE	DESCRIPTION
TseStatus	

Methods

CancelDocument(Document)

Cancel 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.CancelDocument\(Document\)](#)

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.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.

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
System.Type	t	The type to get the mandatory fields.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList<System.String>	A list of property names representing the mandatory fields for this country implementation.

Overrides

[TrustedFiscalModuleImplementationBase.GetDocumentMandatoryFields\(Type\)](#)

GetOpenEndOfDayCashPointClosing(Guid, Document)

Declaration

```
public CashPointClosing GetOpenEndOfDayCashPointClosing(Guid uniqueClientId, Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	
Document	document	

Returns

TYPE	DESCRIPTION
CashPointClosing	

GetTaxFreeVat()

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

Declaration

```
public override Vat GetTaxFreeVat()
```

Returns

TYPE	DESCRIPTION
Vat	A vat object representing the zero tax based vat object.

Overrides

[TrustedFiscalModuleImplementationBase.GetTaxFreeVat\(\)](#)

Remarks

Can be used for payin/payout, cash difference and others.

StoreDocument(Document)

Signs the document, returns a [FiscalResponseGermany](#) object and stores it to the DSFin-VK storage.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
Document	document	

Returns

TYPE	DESCRIPTION
FiscalResponse	The fiscal response including the transaction number

Overrides

[TrustedFiscalModuleImplementationBase.StoreDocument\(Document\)](#)

Exceptions

TYPE	CONDITION
System.ArgumentException	Thrown if the given document was not created with correct FiscalResponse created by CreateDocument(DocumentType) .

ValidateDocument(Document)

Returns a list of validation error for the given document based on german fiscalisation.

Declaration

```
public override List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The Document to validate.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects representing all validation error which where found.

Overrides

[TrustedFiscalModuleImplementationBase.ValidateDocument\(Document\)](#)

ValidateFiscalClient(Document)

Validates the fiscal client for the given document.

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document containing the fiscal client.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of document validation errors.

Overrides

[TrustedFiscalModuleImplementationBase.ValidateFiscalClient\(Document\)](#)

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if parameter <code>document</code> is set to null.
System.ArgumentException	Thrown if property <code>RetailForce.Fiscalisation.Model.Document.Document.FiscalClient</code> of parameter of <code>document</code> is set to null.

Implements

[IFiscalModullImplementation](#)

[IDocumentInterface](#)

Class TseConfiguration

Configuration for a single tse unit.

Inheritance

System.Object

ValidationBase<ValidationError>

ValidationPropertyBase<ValidationError>

ConfigurationValidationBase

TseConfiguration

Inherited Members

ConfigurationValidationBase.ValidateCountrySpecificProperty<CountryRequiredAttributeType>()

ConfigurationValidationBase.VALIDATION_ERROR_SOURCE

ConfigurationValidationBase.AddPropertyError(ErrorLevel, String, String, String)

ConfigurationValidationBase.ValidateElement()

ValidationPropertyBase<ValidationError>.Validate()

ValidationPropertyBase<ValidationError>.ValidateProperties()

ValidationPropertyBase<ValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TseConfiguration : ConfigurationValidationBase
```

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

```
public Guid TseGuid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

TseId

The id of the tse.

Declaration

```
public long TseId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

TseParameter

Additional parameters for tse configuration.

Declaration

```
public Dictionary<string, string> TseParameter { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.String>	

UseTseGuid

True if the tse has to use the guid; otherwise false (use id).

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Boolean	

Enum TseDriver

The actual implemented Tse Driver for german fiscalisation.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
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	
TestTse	

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](#)

Der Kassenabschluss wird ein-, mehrmals oder kalendertagübergreifend für eine Kasse erstellt.

[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](#)

Version 2.2.0

[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.

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)

[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

System.Object
AddressOptional

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.String	

CountryCode

Declaration

```
[JsonProperty("country_code", NullValueHandling = NullValueHandling.Ignore)]  
public CountryCode? CountryCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable< CountryCode >	

PostalCode

Declaration

```
[JsonProperty("postal_code", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(StickyMinMaxLengthCheckConverter))]  
public string PostalCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Street

Declaration

```
[JsonProperty("street", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Street { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class AddressStrict

Inheritance

System.Object

AddressStrict

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.String	

Street

Declaration

```
[JsonProperty("street")]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Street { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class BusinessCase

Der business_case qualifiziert den Geschäftsvorfall in der Einzelbewegung und im Kassenabschluss fachlich und inhaltlich

Inheritance

System.Object
BusinessCase

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.Collections.Generic.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
System.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
System.Nullable<System.Int64>	

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

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.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
System.Collections.Generic.List<System.Object>	

Bool

Declaration

```
public bool? Bool
```

Field Value

TYPE	DESCRIPTION
System.Nullable<System.Boolean>	

BusinessCaseLineClass

Declaration

```
public BusinessCaseLineClass BusinessCaseLineClass
```

Field Value

TYPE	DESCRIPTION
BusinessCaseLineClass	

Double

Declaration

```
public double? Double
```

Field Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Integer

Declaration

```
public long? Integer
```

Field Value

TYPE	DESCRIPTION
System.Nullable<System.Int64>	

String

Declaration

```
public string String
```

Field Value

TYPE	DESCRIPTION
System.String	

Properties

IsNull

Declaration

```
public bool IsNull { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Operators

Implicit(BusinessCaseLineClass to BusinessCaseLine)

Declaration

```
public static implicit operator BusinessCaseLine(BusinessCaseLineClass BusinessCaseLineClass)
```

Parameters

TYPE	NAME	DESCRIPTION
BusinessCaseLineClass	BusinessCaseLineClass	

Returns

TYPE	DESCRIPTION
BusinessCaseLine	

Implicit(Boolean to BusinessCaseLine)

Declaration

```
public static implicit operator BusinessCaseLine(bool Bool)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	Bool	

Returns

TYPE	DESCRIPTION
BusinessCaseLine	

Implicit(List<Object> to BusinessCaseLine)

Declaration

```
public static implicit operator BusinessCaseLine(List<object> AnythingArray)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.Object>	AnythingArray	

Returns

TYPE	DESCRIPTION
BusinessCaseLine	

Implicit(Double to BusinessCaseLine)

Declaration

```
public static implicit operator BusinessCaseLine(double Double)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Double	Double	

Returns

TYPE	DESCRIPTION
BusinessCaseLine	

Implicit(Int64 to BusinessCaseLine)

Declaration

```
public static implicit operator BusinessCaseLine(long Integer)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int64	Integer	

Returns

TYPE	DESCRIPTION
BusinessCaseLine	

Implicit(String to BusinessCaseLine)

Declaration

```
public static implicit operator BusinessCaseLine(string String)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	String	

Returns

TYPE	DESCRIPTION
BusinessCaseLine	

Class BusinessCaseLineClass

Inheritance

System.Object

BusinessCaseLineClass

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.Generic.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
System.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
System.Nullable<System.Int64>	

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	
DifferenzSollst	
Einzahlung	
EinzweckgutscheinEinloesung	
EinzweckgutscheinKauf	
Forderungsaufloesung	
Forderungsentstehung	
Geldtransit	
Lohnzahlung	
MehrweckgutscheinEinloesung	
MehrweckgutscheinKauf	
Pfand	
PfandRueckzahlung	
Privateinlage	
Privatentnahme	
Rabatt	

NAME	DESCRIPTION
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

System.Object

Buyer

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

Name

Die Name des Käufers.

Declaration

```
[JsonProperty("name")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.String	

Enum BuyerType

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum BuyerType
```

Fields

NAME	DESCRIPTION
Kunde	
Mitarbeiter	

Class CashAmountsByCurrency

Inheritance

System.Object

CashAmountsByCurrency

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 double Amount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

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	

Class CashPointClosing

Der Kassenabschluss wird ein-, mehrmals oder kalendertagübergreifend für eine Kasse erstellt.

Inheritance

System.Object
CashPointClosing

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class 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
System.Int64	

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
System.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
System.Collections.Generic.List< Transaction >	

Class CashPointClosingHead

In dieser Klammer werden die zentralen Stammdaten des Kassenabschlusses dargestellt.

Inheritance

System.Object

CashPointClosingHead

Inherited Members

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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)]  
public DateTimeOffset? BusinessDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.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
System.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
System.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
System.String	

Methods

Equals(Object)

Equals !! if needed override hash code !!

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Object	obj	

Returns

TYPE	DESCRIPTION
System.Boolean	

Overrides

System.Object.Equals(System.Object)

Class CashPointClosingSecurity

Container für Daten von Sicherheitseinrichtungen, die für den ganzen Kassenabschluss gelten.

Inheritance

System.Object

CashPointClosingSecurity

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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

System.Object

CashRegister

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 Kassengeräts.

Declaration

```
[JsonProperty("brand")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Brand { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.String	

Model

Bezeichnet das Modell der jeweiligen Kasse.

Declaration

```
[JsonProperty("model")]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string Model { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.Collections.Generic.List< PurchaserAgency >	

SerialNumber

Seriennummer der jeweiligen Kasse.

Declaration

```
[JsonProperty("serial_number")]  
[JsonConverter(typeof(AmbitiousMinMaxLengthCheckConverter))]  
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.Collections.Generic.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
System.Collections.Generic.List< VatDefinition >	

Class CashRegisterSoftware

Inheritance

System.Object

CashRegisterSoftware

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.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

System.Object
CashStatement

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.Collections.Generic.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

System.Object

ClosingCashRegister

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

SlaveId

Declaration

```
[JsonProperty("slave_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string SlaveId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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

System.Object

Company

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

TaxNumber

Declaration

```
[JsonProperty("tax_number")]
[JsonConverter(typeof(IndecentMinMaxLengthCheckConverter))]
public string TaxNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VatIdNumber

Declaration

```
[JsonProperty("vat_id_number", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]
public string VatIdNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Coordinate

Version 2.2.0

Inheritance

System.Object

Coordinate

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Taxonomy](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
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
System.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	

NAME	DESCRIPTION
Ben	
Bfa	
Bgd	
Bgr	
Bhr	
Bhs	
Bih	
Blr	
Blz	
Bmu	
Bol	
Bra	
Brb	
Brn	
Btn	
Bvt	
Bwa	
Caf	
Can	
Cck	
Che	
Chl	
Chn	
Civ	
Cmr	

NAME	DESCRIPTION
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	

NAME	DESCRIPTION
Fin	
Fji	
Flk	
Fra	
Fro	
Fsm	
Gab	
Gbr	
Geo	
Gha	
Gib	
Gin	
Glp	
Gmb	
Gnb	
Gnq	
Grc	
Grd	
Grl	
Gtm	
Guf	
Gum	
Guy	
Hkg	
Hmd	

NAME	DESCRIPTION
Hnd	
Hrv	
Hti	
Hun	
Idn	
Ind	
lot	
Irl	
Irn	
Irq	
Isl	
Isr	
Ita	
Jam	
Jor	
Jpn	
Kaz	
Ken	
Kgz	
Khm	
Kir	
Kna	
Kor	
Kwt	
Lao	

NAME	DESCRIPTION
Lbn	
Lbr	
Lby	
Lca	
Lie	
Lka	
Lso	
Ltu	
Lux	
Lva	
Mac	
Mar	
Mco	
Mda	
Mdg	
Mdv	
Mex	
Mhl	
Mkd	
Mli	
Mlt	
Mmr	
Mng	
Mnp	
Moz	

NAME	DESCRIPTION
Mrt	
Msr	
Mtg	
Mus	
Mwi	
Mys	
Myt	
Nam	
Ncl	
Ner	
Nfk	
Nga	
Nic	
Niu	
Nld	
Nor	
Npl	
Nru	
Nzl	
Omn	
Pak	
Pan	
Pcn	
Per	
Phl	

NAME	DESCRIPTION
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	

NAME	DESCRIPTION
Smr	
Som	
Spm	
Stp	
Sur	
Svk	
Svn	
Swe	
Swz	
Syc	
Syr	
Tca	
Tcd	
Tgo	
Tha	
Tjk	
Tkl	
Tkm	
Tls	
Ton	
Tto	
Tun	
Tur	
Tuv	
Twn	

NAME	DESCRIPTION
Tza	
Uga	
Ukr	
Umi	
Ury	
Usa	
Uzb	
Vat	
Vct	
Ven	
Vgb	
Vir	
Vnm	
Vut	
Wlf	
Wsm	
Yem	
Zaf	
Zmb	
Zwe	

Class CsvExport

Inheritance

System.Object

CsvExport

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
Microsoft.Extensions.Logging.ILogger	logger	

Methods

Export(List<CashPointClosing>, String)

Declaration

```
public void Export(List<CashPointClosing> cashPointClosings, string exportPath)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List< CashPointClosing >	cashPointClosings	
System.String	exportPath	

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	

NAME	DESCRIPTION
Bov	
Brl	
Bsd	
Btn	
Bwp	
Byn	
Byr	
Bzd	
Cad	
Cdf	
Che	
Chf	
Chw	
Clf	
Clp	
Cn	
Cop	
Cou	
Crc	
Cuc	
Cup	
Cve	
Czk	
Djf	
Dkk	

NAME	DESCRIPTION
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	

NAME	DESCRIPTION
Irr	
Isk	
Jmd	
Jod	
Jpy	
Kes	
Kgs	
Khr	
Kmf	
Kpw	
Krw	
Kwd	
Kyd	
Kzt	
Lak	
Lbp	
Lkr	
Lrd	
Lsl	
Lyd	
Mad	
Mdl	
Mga	
Mkd	
Mmk	

NAME	DESCRIPTION
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	

NAME	DESCRIPTION
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	

NAME	DESCRIPTION
Ttd	
Twd	
Tzs	
Uah	
Ugx	
Usd	
Uyi	
Uyu	
Uzs	
Vef	
Vnd	
Vuv	
Wst	
Xaf	
Xcd	
Xof	
Xpf	
Xsu	
Yer	
Zar	
Zmw	
Zwl	

Class CustomFieldDefinitions

Inheritance

System.Object

CustomFieldDefinitions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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

System.Object

CustomFields

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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

System.Object

Data

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.Generic.List< VatAmountGrossAndNetReceipt >	

FullAmountInclVat

Declaration

```
[JsonProperty("full_amount_incl_vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public double FullAmountInclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

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
System.Collections.Generic.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
System.String	

PaymentTypes

Declaration

```
[JsonProperty("payment_types", NullValueHandling = NullValueHandling.Ignore)]  
public List<DataPaymentType> PaymentTypes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< DataPaymentType >	

Class DataPaymentType

Unterteilung der gezahlten Beträge nach Zahlart und Währung.

Inheritance

System.Object
DataPaymentType

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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 double Amount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

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 double? ForeignAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Name

Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Type

Declaration

```
[JsonProperty("type")]
public TypeEnum Type { get; set; }
```

Property Value

TYPE	DESCRIPTION
TypeEnum	

Class FinishTransaction

Inheritance

System.Object
FinishTransaction

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.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
System.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
System.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
System.String	

SignatureCounter

Der Signaturzähler der TSE für die FinishTransaction-Operation

Declaration

```
[JsonProperty("signature_counter")]
public long SignatureCounter { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

Class FluffyTse

Auf die Transaktion bezogene Daten der Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

Inheritance

System.Object

FluffyTse

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.Nullable<System.Int64>	

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
System.Nullable<System.Int64>	

Class Item

Innerhalb des Geschäftsvorfalles bildet der item die Klammer um alle Artikelspezifischen Informationen.

Inheritance

System.Object

Item

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.Generic.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
System.Collections.Generic.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
System.Collections.Generic.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
System.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
System.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
System.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
System.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 double PricePerUnit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Quantity

Declaration

```
[JsonProperty("quantity")]
[JsonConverter(typeof(StickyMinMaxValueCheckConverter))]
public double Quantity { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

QuantityFactor

Declaration

```
[JsonProperty("quantity_factor", NullValueHandling = NullValueHandling.Ignore)]
public double? QuantityFactor { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

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
System.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
System.Collections.Generic.List< SubItem >	

Class Line

Inheritance

System.Object

Line

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

InHouse

Kennzeichnet einen in_house Verkauf bzw. außerhausverkauf

Declaration

```
[JsonProperty("in_house", NullValueHandling = NullValueHandling.Ignore)]
public bool? InHouse { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Boolean>	

Item

Innerhalb des Geschäftsvorfalles bildet der item die Klammer um alle Artikelspezifischen Informationen.

Declaration

```
[JsonProperty("item", NullValueHandling = NullValueHandling.Ignore)]
public Item Item { get; set; }
```

Property Value

TYPE	DESCRIPTION
Item	

References

Referenzen auf externe Lieferscheine, Rechnungen oder Transaktionen eines Taxonomie-Kassenabschlusses

Declaration

```
[JsonProperty("references", NullValueHandling = NullValueHandling.Ignore)]
public List<Reference> References { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.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
System.Boolean	

Text

Bezeichnung der Line bzw. Name des Items.

Declaration

```
[JsonProperty("text")]
[JsonConverter(typeof(MischievousMinMaxLengthCheckConverter))]
public string Text { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VoucherId

Declaration

```
[JsonProperty("voucher_id", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string VoucherId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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

System.Object

Location

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

VatIdNumber

Declaration

```
[JsonProperty("vat_id_number", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]
public string VatIdNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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

System.Object

Module

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.Int64	

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 Abschnitt 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
System.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

System.Object

Payment

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 double CashAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

CashAmountsByCurrency

Eine Aufschlüsselung aller Bareinnahmen nach Wahrung

Declaration

```
[JsonProperty("cash_amounts_by_currency")]  
public List<CashAmountsByCurrency> CashAmountsByCurrency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< CashAmountsByCurrency >	

FullAmount

Der Gesamtbetrag stellt den Gesamtbetrag des Zahlungsstromes dar.

Declaration

```
[JsonProperty("full_amount")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public double FullAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

PaymentTypes

Declaration

```
[JsonProperty("payment_types")]  
public List<PaymentPaymentType> PaymentTypes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.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

System.Object

PaymentPaymentType

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 double Amount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

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 double? ForeignAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Name

Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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 Kassenabschluss zu erstellen. Die umsatzsteuerliche Zuordnung erfolgt somit in jedem Falle zum Zeitpunkt der Lieferung und der Leistung.

Inheritance

System.Object
ProcessingFlags

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.Nullable<System.Boolean>	

Class PurchaserAgency

Inheritance

System.Object
PurchaserAgency

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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 - 999999999999 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
System.Int64	

Name

Declaration

```
[JsonProperty("name")]  
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]  
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TaxNumber

Declaration

```
[JsonProperty("tax_number")]  
[JsonConverter(typeof(IndecentMinMaxLengthCheckConverter))]  
public string TaxNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VatIdNumber

Declaration

```
[JsonProperty("vat_id_number", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(HilariousMinMaxLengthCheckConverter))]  
public string VatIdNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class PurpleTse

Für den gesamten Kassenabschluss gültige Informationen zur Technischen Sicherheitseinrichtung (TSE) im Sinne der deutschen Kassensicherungsverordnung - KassenSichV

Inheritance

System.Object

PurpleTse

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Collections.Generic.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

System.Object

Reference

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Nullable<System.Int64>	

CashRegisterId

Declaration

```
[JsonProperty("cash_register_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string CashRegisterId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Date

Declaration

```
[JsonProperty("date", NullValueHandling = NullValueHandling.Ignore)]  
public DateTimeOffset? Date { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.DateTimeOffset>	

Id

Declaration

```
[JsonProperty("id")]
[JsonConverter(typeof(PurpleMinMaxLengthCheckConverter))]
public string Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.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	
ExternerLieferschein	
ExterneSonstige	
Transaktion	

Class Serialize

Inheritance

System.Object

Serialize

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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

System.Object

Slave

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.String	

SerialNumber

Seriennummer der jeweiligen Slave-Kasse.

Declaration

```
[JsonProperty("serial_number")]  
[JsonConverter(typeof(AmbitiousMinMaxLengthCheckConverter))]  
public string SerialNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.String	

Software

Declaration

```
[JsonProperty("software", NullValueHandling = NullValueHandling.Ignore)]  
public SlaveSoftware Software { get; set; }
```

Property Value

TYPE	DESCRIPTION
SlaveSoftware	

Class SlaveSoftware

Inheritance

System.Object
SlaveSoftware

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.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
System.String	

Class SourceCashRegister

Inheritance

System.Object

SourceCashRegister

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

SlaveId

Declaration

```
[JsonProperty("slave_id", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]  
public string SlaveId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class StartTransaction

Inheritance

System.Object
StartTransaction

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.DateTimeOffset	

Class SubItem

Inheritance

System.Object

SubItem

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

GroupName

Declaration

```
[JsonProperty("group_name", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string GroupName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Gtin

Declaration

```
[JsonProperty("gtin", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string Gtin { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Name

Declaration

```
[JsonProperty("name", NullValueHandling = NullValueHandling.Ignore)]
[JsonConverter(typeof(FluffyMinMaxLengthCheckConverter))]
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Number

Declaration

```
[JsonProperty("number")]
[JsonConverter(typeof(IndigoMinMaxLengthCheckConverter))]
public string Number { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Quantity

Declaration

```
[JsonProperty("quantity")]
[JsonConverter(typeof(StickyMinMaxValueCheckConverter))]
public double Quantity { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

QuantityFactor

Declaration

```
[JsonProperty("quantity_factor", NullValueHandling = NullValueHandling.Ignore)]
public double? QuantityFactor { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

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
System.String	

Class TaxonomyFileStore

Saves the taxonomy files to disk and handles unfinished cash point closings

Inheritance

System.Object

LoggingBase

TaxonomyStore<TaxonomyFileStoreConfiguration>

TaxonomyFileStore

Inherited Members

TaxonomyStore<TaxonomyFileStoreConfiguration>.Configuration

LoggingBase._logger

LoggingBase._logSource

LoggingBase.LogCritical(String, Object[])

LoggingBase.LogCritical(Exception, String, Object[])

LoggingBase.LogError(String, Object[])

LoggingBase.LogError(Exception, String, Object[])

LoggingBase.LogWarning(String, Object[])

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
Microsoft.Extensions.Logging.ILogger	logger	An instance of an logger
TaxonomyFileStoreConfiguration	configuration	the configuration for the storage

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>configuration</code> is set to null.

Methods

CleanCashPointClosing(Guid, Int32)

cleans / removes all transactions and the cash point closing header

Declaration

```
public override void CleanCashPointClosing(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number where the header should be stored

Overrides

RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.CleanCashPointClosing(System.Guid, System.Int32)

GetOpenCashPointClosingNumber(Guid)

Returns the a cash point closing number

Declaration

```
public int GetOpenCashPointClosingNumber(Guid uniqueClientId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client

Returns

TYPE	DESCRIPTION
System.Int32	CashPointClosingNumber of an cash point closing which isn't finalized if nothing is open it returns the next valid number

LoadCashPointClosing(Guid, Int32)

Load cash point closing

Declaration

```
public CashPointClosing LoadCashPointClosing(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number which should be loaded

Returns

TYPE	DESCRIPTION
CashPointClosing	The loaded cash point closing

LoadCashPointClosingHeader(Guid, Int32)

Loads a cash point closing header

Declaration

```
public override CashPointClosingHead LoadCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number to load

Returns

TYPE	DESCRIPTION
CashPointClosingHead	the cash point closing header

Overrides

RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.LoadCashPointClosingHeader(System.Guid, System.Int32)

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
System.Guid	uniqueClientId	The unique id of the client
System.DateTime	startDate	Date with the start date (will be checked >=)
System.DateTime	endDateTime	Date with the end date

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< CashPointClosing >	A list of cash point closings

Overrides
RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.LoadCashPointClosings(System.Guid, System.DateTime, System.DateTime)

LoadLastTransaction(Guid, Int32)

Loads the last transaction of a cash point closing

Declaration

```
public Transaction LoadLastTransaction(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	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
System.Guid	uniqueClientId	The unique id of the client

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Reference >	A list of all References, or null if file doesn't exist.

Overrides
RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.LoadTransactionReferences(System.Guid)

LoadTransactions(Guid, Int32)

Returns all Transactions of an cash point closing

Declaration

```
public override List<Transaction> LoadTransactions(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The number of the cashpointClosing to load

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Transaction >	Returns a list of transaction from the cash point closing nr.

Overrides
RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.LoadTransactions(System.Guid, System.Int32)

StoreCashPointClosing(Guid, CashPointClosing)

Stores a cashpoint closing

Declaration

```
public override void StoreCashPointClosing(Guid uniqueClientId, CashPointClosing cashPointClosing)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
CashPointClosing	cashPointClosing	The cash point closing to store

Overrides

RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.StoreCashPointClosing(System.Guid, RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.CashPointClosing)

StoreCashPointClosingHeader(Guid, Int32, CashPointClosingHead)

stores a cash point closing header

Declaration

```
public override void StoreCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr, CashPointClosingHead header)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number where the header should be stored
CashPointClosingHead	header	the head object to store

Overrides

RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.StoreCashPointClosingHeader(System.Guid, System.Int32, RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.CashPointClosingHead)

StoreTransaction(Guid, Int32, Transaction)

Stores a transaction to the storage

Declaration

```
public override void StoreTransaction(Guid uniqueClientId, int cashPointClosingNr, Transaction transaction)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The number of the cashpoint closing to store
Transaction	transaction	The transaction to store

Overrides

RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.StoreTransaction(System.Guid, System.Int32, RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.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
System.Guid	uniqueClientId	
System.Collections.Generic.List< Reference >	references	

Overrides

RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.TaxonomyStore<RetailForce.Fiscalisation.Implementation.Germany.TaxonomyFileStoreConfiguration>.StoreTransactionReferences(System.Guid, System.Collections.Generic.List<RetailForce.Fiscalisation.Implementation.Germany.Taxonomy.Reference>)

Remarks

removes the whole zip file if exists and creates a new one!

Class TaxonomyStore<T>

Represents the local and cloud storage provider for Taxonomy Germany (DSFin-VK, DFKA).

Inheritance

System.Object

[LoggingBase](#)

TaxonomyStore<T>

[TaxonomyFileStore](#)

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.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
Microsoft.Extensions.Logging.ILogger	logger	An instance of an logger
System.String	logSource	Name of the logging source

TYPE	NAME	DESCRIPTION
T	configuration	the configuration for the storage

Exceptions

TYPE	CONDITION
System.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, Int32)

cleans / removes all transactions and the cash point closing header

Declaration

```
public abstract void CleanCashPointClosing(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number where the header should be stored

LoadCashPointClosingHeader(Guid, Int32)

Loads a cash point closing header

Declaration

```
public abstract CashPointClosingHead LoadCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number to load

Returns

TYPE	DESCRIPTION
CashPointClosingHead	the cash point closing header

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
System.Guid	uniqueClientId	The unique id of the client
System.DateTime	startDate	Date with the start date (will be checked >=)
System.DateTime	endDateTime	Date with the end date

Returns

TYPE	DESCRIPTION
System.Collections.Generic.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
System.Guid	uniqueClientId	The unique id of the client

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Reference >	A list of all References, or null if file doesn't exist.

LoadTransactions(Guid, Int32)

Returns all Transactions of an cash point closing

Declaration

```
public abstract List<Transaction> LoadTransactions(Guid uniqueClientId, int cashPointClosingNr)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The number of the cashpointClosing to load

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Transaction >	Returns a list of transaction from the cash point closing nr.

StoreCashPointClosing(Guid, CashPointClosing)

Stores a cashpoint closing

Declaration

```
public abstract void StoreCashPointClosing(Guid uniqueClientId, CashPointClosing cashPointClosing)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
CashPointClosing	cashPointClosing	The cash point closing to store

StoreCashPointClosingHeader(Guid, Int32, CashPointClosingHead)

stores a cash point closing header

Declaration

```
public abstract void StoreCashPointClosingHeader(Guid uniqueClientId, int cashPointClosingNr, CashPointClosingHead header)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	cashPointClosingNr	The cash point closing number where the header should be stored
CashPointClosingHead	header	the head object to store

StoreTransaction(Guid, Int32, Transaction)

Stores a transaction to the storage

Declaration

```
public abstract void StoreTransaction(Guid uniqueClientId, int cashPointClosingNr, Transaction transaction)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique id of the client
System.Int32	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
System.Guid	uniqueClientId	
System.Collections.Generic.List< Reference >	references	

Remarks

removes the whole zip file if exists and creates a new one!

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

System.Object

Transaction

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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

System.Object
TransactionHead

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.Collections.Generic.List<System.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
System.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
System.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
System.Int64	

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
System.Collections.Generic.List< Reference >	

Storno

Kennzeichnet einen globalen Stornovorgang auf Belegebene.

Declaration

```
[JsonProperty("storno")]
public bool Storno { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

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
System.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
System.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

System.Object

TransactionSecurity

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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	
EckKarte	
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

System.Object

User

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.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
System.String	

Class VatAmountGrossAndNet

Einem Geschäftsvorfall können ein oder mehrere Beträge getrennt nach Umsatzsteuersätzen zugewiesen werden.

Inheritance

System.Object

VatAmountGrossAndNet

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 double ExclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Id

Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

InclVat

Declaration

```
[JsonProperty("incl_vat")]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public double InclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Vat

Declaration

```
[JsonProperty("vat")]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public double Vat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Class VatAmountGrossAndNetReceipt

Aufteilung des Gesamtbetrages einer Transaktion in die Einzelbeträge nach ausgewiesenen Umsatzsteuersätzen.

Inheritance

System.Object

VatAmountGrossAndNetReceipt

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 double ExclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Id

Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

InclVat

Declaration

```
[JsonProperty("incl_vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public double InclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Vat

Declaration

```
[JsonProperty("vat")]  
[JsonConverter(typeof(FluffyMinMaxValueCheckConverter))]  
public double Vat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Class VatAmountGrossOrNet

Inheritance

System.Object

VatAmountGrossOrNet

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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 double? ExclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Id

Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

InclVat

Declaration

```
[JsonProperty("incl_vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public double? InclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Vat

Declaration

```
[JsonProperty("vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public double? Vat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Class VatAmountOnly

Inheritance

System.Object
VatAmountOnly

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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 double? ExclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Id

Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

InclVat

Declaration

```
[JsonProperty("incl_vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public double? InclVat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Vat

Declaration

```
[JsonProperty("vat", NullValueHandling = NullValueHandling.Ignore)]  
[JsonConverter(typeof(PurpleMinMaxValueCheckConverter))]  
public double? Vat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable<System.Double>	

Class VatDefinition

Inheritance

System.Object

VatDefinition

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

Id

Declaration

```
[JsonProperty("id")]  
public long Id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

Percentage

Declaration

```
[JsonProperty("percentage")]  
[JsonConverter(typeof(TentacledMinMaxValueCheckConverter))]  
public double Percentage { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Double	

Namespace

RetailForce.Fiscalisation.Implementation.Germany.Tse

Classes

[ATrustCloud](#)

[FiskalyCloud](#)

Implementation of cloud tse of fiskaly.

[Swissbit](#)

Integration of swissbit hardware tse.

[TestTse](#)

[TestTseStatus](#)

[TseBase](#)

Basic class for all tse interfaces.

[TseInformation](#)

Enums

[TseStatus](#)

Represents the status of the connected tse.

Class ATrustCloud

Inheritance

System.Object

ATrustCloud

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class ATrustCloud
```

Class FiskalyCloud

Implementation of cloud tse of fiskaly.

Inheritance

System.Object

LoggingBase

TseBase

FiskalyCloud

Implements

System.IDisposable

Inherited Members

TseBase.Status

TseBase.StartTransaction(Guid)

TseBase.FinishTransaction(Guid, TseRequest)

TseBase.CancelTransaction(Guid, Int32, Int32, String)

TseBase.ClientId

LoggingBase._logger

LoggingBase._logSource

LoggingBase.LogCritical(String, Object[])

LoggingBase.LogCritical(Exception, String, Object[])

LoggingBase.LogError(String, Object[])

LoggingBase.LogError(Exception, String, Object[])

LoggingBase.LogWarning(String, Object[])

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public sealed class FiskalyCloud : TseBase, IDisposable
```

Remarks

Interface documentation at: <https://kassensichv.io/api/docs/> Fiskaly dashboard at: <https://dashboard.fiskaly.com/kassensichv/dashboard>.

For more information regarding tse integration information see [TseBase](#).

Constructors

FiskalyCloud(String, String, Guid, Guid, ILogger)

Constructor.

Declaration

```
public FiskalyCloud(string apiKey, string apiSecret, Guid tssGuid, Guid clientId, ILogger logger)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	apiKey	
System.String	apiSecret	
System.Guid	tssGuid	
System.Guid	clientId	
Microsoft.Extensions.Logging.ILogger	logger	

Exceptions

TYPE	CONDITION
System.ArgumentNullException	

Methods

CancelTransactionImplementation(Guid, Int32, Int32, String)

Cancels a transaction on the technical security system (tse) = fiskaly cloud.

Declaration

```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int number, int lastRevision, string processType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client where the transaction should occur.
System.Int32	number	The number of the transaction to be canceled.
System.Int32	lastRevision	The actual revision of the transaction to be canceled.
System.String	processType	The type of the canceled transaction.

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.CancelTransactionImplementation\(Guid, Int32, Int32, String\)](#)

Exceptions

TYPE	CONDITION
System.ArgumentOutOfRangeException	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

ConnectTest()

Tries to connect to the tse.

Declaration

```
public override void ConnectTest()
```

Overrides

[TseBase.ConnectTest\(\)](#)

Dispose()

Called when the object is disposed.

Declaration

```
public void Dispose()
```

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
System.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

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>request</code> parameter is set to null or <code>clientId</code> is set to System.Guid.Empty.

StartTransactionImplementation(Guid)

Starts a transaction on the technical security system (tse) = fiskaly cloud.

Declaration

```
protected override TseResponse StartTransactionImplementation(Guid clientId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client where the transaction should occur.

Returns

TYPE	DESCRIPTION
TseResponse	A TseResponse object representing the response of the tse.

Overrides

[TseBase.StartTransactionImplementation\(Guid\)](#)

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>clientId</code> is set to System.Guid.Empty.

Implements

System.IDisposable

Class Swissbit

Integration of swissbit hardware tse.

Inheritance

System.Object

[LoggingBase](#)

[TseBase](#)

Swissbit

Inherited Members

[TseBase.Status](#)

[TseBase.StartTransaction\(Guid\)](#)

[TseBase.FinishTransaction\(Guid, TseRequest\)](#)

[TseBase.CancelTransaction\(Guid, Int32, Int32, String\)](#)

[TseBase.ClientId](#)

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class Swissbit : TseBase
```

Constructors

Swissbit(Guid, ILogger)

Declaration

```
public Swissbit(Guid clientId, ILogger logger)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	
Microsoft.Extensions.Logging.ILogger	logger	

Methods

CancelTransactionImplementation(Guid, Int32, Int32, String)

Declaration


```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	
System.Int32	transactionNumber	
System.Int32	lastRevision	
System.String	processType	

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.CancelTransactionImplementation\(Guid, Int32, Int32, String\)](#)

ConnectTest()

Declaration

```
public override void ConnectTest()
```

Overrides

[TseBase.ConnectTest\(\)](#)

FinishTransactionImplementation(Guid, TseRequest)

Declaration

```
protected override TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	
TseRequest	request	

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

StartTransactionImplementation(Guid)

Declaration

protected override TseResponse StartTransactionImplementation(Guid clientId)

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.StartTransactionImplementation\(Guid\)](#)

Class TestTse

Inheritance

System.Object

LoggingBase

TseBase

TestTse

Inherited Members

TseBase.Status

TseBase.StartTransaction(Guid)

TseBase.FinishTransaction(Guid, TseRequest)

TseBase.CancelTransaction(Guid, Int32, Int32, String)

TseBase.ClientId

LoggingBase._logger

LoggingBase._logSource

LoggingBase.LogCritical(String, Object[])

LoggingBase.LogCritical(Exception, String, Object[])

LoggingBase.LogError(String, Object[])

LoggingBase.LogError(Exception, String, Object[])

LoggingBase.LogWarning(String, Object[])

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TestTse : TseBase
```

Constructors

TestTse(String, Guid, ILogger)

Declaration

```
public TestTse(string storagePath, Guid clientId, ILogger logger)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	storagePath	
System.Guid	clientId	
Microsoft.Extensions.Logging.ILogger	logger	

Methods

CancelTransactionImplementation(Guid, Int32, Int32, String)

Declaration

```
protected override TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	
System.Int32	transactionNumber	
System.Int32	lastRevision	
System.String	processType	

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.CancelTransactionImplementation\(Guid, Int32, Int32, String\)](#)

ConnectTest()

Declaration

```
public override void ConnectTest()
```

Overrides

[TseBase.ConnectTest\(\)](#)

FinishTransactionImplementation(Guid, TseRequest)

Declaration

```
protected override TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	
TseRequest	request	

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.FinishTransactionImplementation\(Guid, TseRequest\)](#)

StartTransactionImplementation(Guid)

Declaration

protected override TseResponse StartTransactionImplementation(Guid clientId)

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	

Returns

TYPE	DESCRIPTION
TseResponse	

Overrides

[TseBase.StartTransactionImplementation\(Guid\)](#)

Class TestTseStatus

Inheritance

System.Object

TestTseStatus

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Int32	

Revision

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

Class TseBase

Basic class for all tse interfaces.

Inheritance

[System.Object](#)

[LoggingBase](#)

[TseBase](#)

[FiskalyCloud](#)

[Swissbit](#)

[TestTse](#)

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

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

Syntax

```
public abstract class TseBase : LoggingBase
```

Constructors

[TseBase\(Guid, ILogger\)](#)

Constructor.

Declaration

```
public TseBase(Guid clientId, ILogger logger)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	
Microsoft.Extensions.Logging.ILogger	logger	

Exceptions

TYPE	CONDITION
System.ArgumentNullException	

Properties

ClientId

The client for this tse.

Declaration

```
protected Guid ClientId { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Status

Returns the status of the connected tse.

Declaration

```
public TseStatus Status { get; protected set; }
```

Property Value

TYPE	DESCRIPTION
TseStatus	

Remarks

For mor information concerning tse status see [TseStatus](#).

Methods

CancelTransaction(Guid, Int32, Int32, String)

Cancels a transaction on the technical security system (tse) = fiskaly cloud.

Declaration

```
public TseResponse CancelTransaction(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client where the transaction should occur.
System.Int32	transactionNumber	The number of the transaction to be canceled.
System.Int32	lastRevision	The actual revision of the transaction to be canceled.

TYPE	NAME	DESCRIPTION
System.String	processType	The type of the canceled transaction.

Returns

TYPE	DESCRIPTION
TseResponse	A TseResponse object representing the response of the tse.

Exceptions

TYPE	CONDITION
System.ArgumentException	Thrown if the supplied <code>clientId</code> does not match ClientId .
System.ArgumentOutOfRangeException	Thrown if <code>processType</code> is not one of the following values: "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

CancelTransactionImplementation(Guid, Int32, Int32, String)

Implementation method for [CancelTransaction\(Guid, Int32, Int32, String\)](#).

Declaration

```
protected abstract TseResponse CancelTransactionImplementation(Guid clientId, int transactionNumber, int lastRevision, string processType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client where the transaction should occur.
System.Int32	transactionNumber	The number of the transaction to be canceled.
System.Int32	lastRevision	The actual revision of the transaction to be canceled.
System.String	processType	The type of the canceled transaction.

Returns

TYPE	DESCRIPTION
TseResponse	A TseResponse object representing the response of the tse.

ConnectTest()

Tries to connect to the tse.

Declaration

```
public abstract void ConnectTest()
```

FinishTransaction(Guid, TseRequest)

Finish a transaction on the technical security system (tse) = fiskaly cloud.

Declaration

```
public TseResponse FinishTransaction(Guid clientId, TseRequest request)
```

Parameters

TYPE	NAME	DESCRIPTION
System.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.

Exceptions

TYPE	CONDITION
System.ArgumentException	Thrown if the supplied <code>clientId</code> does not match ClientId .

FinishTransactionImplementation(Guid, TseRequest)

Implementation method for [FinishTransaction\(Guid, TseRequest\)](#).

Declaration

```
protected abstract TseResponse FinishTransactionImplementation(Guid clientId, TseRequest request)
```

Parameters

TYPE	NAME	DESCRIPTION
System.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.

StartTransaction(Guid)

Starts a transaction on the technical security system (tse) = fiskaly cloud.

Declaration

```
public TseResponse StartTransaction(Guid clientId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client where the transaction should occur.

Returns

TYPE	DESCRIPTION
TseResponse	A TseResponse object representing the response of the tse.

Exceptions

TYPE	CONDITION
System.ArgumentException	Thrown if the supplied <code>clientId</code> does not match ClientId .

StartTransactionImplementation(Guid)

Implementation method for [StartTransaction\(Guid\)](#).

Declaration

```
protected abstract TseResponse StartTransactionImplementation(Guid clientId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client where the transaction should occur.

Returns

TYPE	DESCRIPTION
TseResponse	A TseResponse object representing the response of the tse.

Class TseInformation

Inheritance

System.Object
TseInformation

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TseInformation
```

Properties

CertificateExpirationDate

Declaration

```
public DateTime CertificateExpirationDate { get; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

MaxOpenTransactions

Declaration

```
public int MaxOpenTransactions { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

MaxRegisteredCashRegister

Declaration

```
public int MaxRegisteredCashRegister { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

RemainingSignatures

Declaration

```
public int RemainingSignatures { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Enum TseStatus

Represents the status of the connected tse.

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
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.
Disconnected	Tse is disconnected or cannot be connected.

Namespace

RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly

Classes

[ClientFactory](#)

[FiskalyConnector](#)

Represents the connection to the fiskaly tse cloud.

[InvalidCredentialsException](#)

[InvalidRequestUriException](#)

[PollyPolicyFactory](#)

Class ClientFactory

Inheritance

System.Object

ClientFactory

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class ClientFactory
```

Methods

Create(String, String, Int32)

Creates an fiskaly http client (with automatic authentication and given timeout).

Declaration

```
public static ValueTask<HttpClient> Create(string apiKey, string apiSecret, int commandTimeout)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	apiKey	
System.String	apiSecret	
System.Int32	commandTimeout	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.ValueTask<System.Net.Http.HttpClient>	

Class FiskalyConnector

Represents the connection to the fiskaly tse cloud.

Inheritance

System.Object

[LoggingBase](#)

FiskalyConnector

Implements

System.IDisposable

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public sealed class FiskalyConnector : LoggingBase, IDisposable
```

Constructors

[FiskalyConnector\(String, String, ILogger, Int32\)](#)

Constructor.

Declaration

```
public FiskalyConnector(string apiKey, string apiSecret, ILogger logger, int commandTimeout = 3000)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	apiKey	The api key for the access to the fiskaly api.
System.String	apiSecret	The api secret to access the fiskaly api.
Microsoft.Extensions.Logging.ILogger	logger	The logger for this class.

TYPE	NAME	DESCRIPTION
System.Int32	commandTimeout	The command timeout in milliseconds when accessing the fiskaly http api. If set to 0 then it infinite.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>apiKey</code> , <code>apiSecret</code> or <code>logger</code> are set to null (or empty string).
System.InvalidOperationException	Thrown if no client can be created.
System.Threading.Tasks.TaskCanceledException	Thrown if the connection to the fiskaly cloud timeouts.

Methods

Dispose()

Disposes the object.

Declaration

```
public void Dispose()
```

Get<ReturnType>(String)

Sends a get request (async) to fiskaly cloud and waits for response.

Declaration

```
public ReturnType Get<ReturnType>(string url)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	url	The url for the put request.

Returns

TYPE	DESCRIPTION
ReturnType	An object of type <code>ReturnType</code> representing the response of the webservice.

Type Parameters

NAME	DESCRIPTION
ReturnType	The type of the return value.

Put<ReturnType, PayloadType>(String, PayloadType)

Sends a put request (async) to fiskaly cloud and waits for response.

Declaration

```
public ReturnType Put<ReturnType, PayloadType>(string url, PayloadType payload)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	url	The url for the put request.
PayloadType	payload	The payload for the put request.

Returns

TYPE	DESCRIPTION
ReturnType	An object of type <code>ReturnType</code> representing the response of the webservice.

Type Parameters

NAME	DESCRIPTION
ReturnType	The type of the return value.
PayloadType	The type of the payload value.

Implements

System.IDisposable

Class InvalidCredentialsException

Inheritance

System.Object
System.Exception
InvalidCredentialsException

Implements

System.Runtime.Serialization.ISerializable

Inherited Members

System.Exception.GetBaseException()
System.Exception.GetObjectData(System.Runtime.Serialization.SerializationInfo, System.Runtime.Serialization.StreamingContext)
System.Exception.GetType()
System.Exception.ToString()
System.Exception.Data
System.Exception.HelpLink
System.Exception.HResult
System.Exception.InnerException
System.Exception.Message
System.Exception.Source
System.Exception.StackTrace
System.Exception.TargetSite
System.Exception.SerializeObjectState
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[Serializable]  
public class InvalidCredentialsException : Exception, ISerializable
```

Constructors

InvalidCredentialsException(String)

Declaration

```
public InvalidCredentialsException(string message)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	message	

Implements

System.Runtime.Serialization.ISerializable

Class InvalidRequestUriException

Inheritance

System.Object
System.Exception
InvalidRequestUriException

Implements

System.Runtime.Serialization.ISerializable

Inherited Members

System.Exception.GetBaseException()
System.Exception.GetObjectData(System.Runtime.Serialization.SerializationInfo, System.Runtime.Serialization.StreamingContext)
System.Exception.GetType()
System.Exception.ToString()
System.Exception.Data
System.Exception.HelpLink
System.Exception.HResult
System.Exception.InnerException
System.Exception.Message
System.Exception.Source
System.Exception.StackTrace
System.Exception.TargetSite
System.Exception.SerializeObjectState
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[Serializable]  
public class InvalidRequestUriException : Exception, ISerializable
```

Constructors

InvalidRequestUriException(String)

Declaration

```
public InvalidRequestUriException(string message)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	message	

Implements

System.Runtime.Serialization.ISerializable

Class PollyPolicyFactory

Inheritance

System.Object
PollyPolicyFactory

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class PollyPolicyFactory
```

Methods

CreateAuthPolicy()

Declaration

```
public static AsyncPolicyWrap<HttpResponseMessage> CreateAuthPolicy()
```

Returns

TYPE	DESCRIPTION
Polly.Wrap.AsyncPolicyWrap<System.Net.Http.HttpResponseMessage>	

CreateGeneralPolicy()

Declaration

```
public static AsyncPolicyWrap<HttpResponseMessage> CreateGeneralPolicy()
```

Returns

TYPE	DESCRIPTION
Polly.Wrap.AsyncPolicyWrap<System.Net.Http.HttpResponseMessage>	

Namespace

RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly. Model

Classes

[TransactionData](#)

Represents the data for the transaction to fiskaly tse (processData = [Binary](#)).

[TransactionPayload](#)

The transaction payload to sign a request with the cloud.

[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)

Enums

[TransactionState](#)

Class TransactionData

Represents the data for the transaction to fiskaly tse (processData = [Binary](#)).

Inheritance

System.Object
TransactionData

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.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
System.ArgumentNullException	Thrown if <code>request</code> is set to null.

Properties

Binary

Base 64 encoded utf8 string of the processData element.

Declaration

```
[JsonProperty("binary")]  
public string Binary { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class TransactionPayload

The transaction payload to sign a request with the cloud.

Inheritance

System.Object

TransactionPayload

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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.

Declaration

```
public TransactionPayload(Guid clientId, TransactionState state)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client for the transaction.
TransactionState	state	The state for the transaction.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>clientId</code> is set to System.Guid.Empty.

TransactionPayload(Guid, TransactionState, TseRequest)

Constructor. Used to finish a transaction.

Declaration

```
public TransactionPayload(Guid clientId, TransactionState state, TseRequest request = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.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
System.ArgumentNullException	Thrown if <code>clientId</code> is set to System.Guid.Empty.

TransactionPayload(Guid, TransactionState, String)

Constructor. Used to cancel a transaction.

Declaration

```
public TransactionPayload(Guid clientId, TransactionState state, string processType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	clientId	The client for the transaction.
TransactionState	state	The state for the transaction.
System.String	processType	The processType for the transaction. Possible types are "Kassenbeleg-V1", "Bestellung-V1" and "SonstigerVorgang".

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>clientId</code> is set to System.Guid.Empty.
System.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.

The structure for the transaction...

Declaration

```
[JsonRequired]  
[JsonProperty("client_id")]  
public Guid ClientId { get; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Data

The data of the transaction. Binary value (base64 encoded utf8 string). This is the processData according to "Anwendungserlass zu §146a AO".

Declaration

```
[JsonProperty("data", NullValueHandling = NullValueHandling.Ignore)]  
public TransactionData Data { get; }
```

Property Value

TYPE	DESCRIPTION
TransactionData	

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.

Type

The Type of the transaction. This is the processType according to "Anwendungserlass zu §146a AO".

Declaration

```
[JsonProperty("type", NullValueHandling = NullValueHandling.Ignore)]  
public string Type { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class TransactionResponse

Represents the response of the fiskaly cloud tse.

Inheritance

System.Object

TransactionResponse

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Int32	

Number

The number of the transaction.

Declaration

```
[JsonProperty("number")]  
public int Number
```

Field Value

TYPE	DESCRIPTION
System.Int32	

QrCodeDataString

Declaration

```
[JsonProperty("qr_code_data")]  
public string QrCodeDataString
```

Field Value

TYPE	DESCRIPTION
System.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
System.Int64	

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
System.Int64	

Remarks

A timestamp / point in time measured in seconds since the Unix epoch.

Class TransactionResponse.SignatureClass

Represents a signature object of the [TransactionResponse](#)

Inheritance

System.Object

TransactionResponse.SignatureClass

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class SignatureClass
```

Fields

Algorithm

The signature algorithm of the signed transaction.

Declaration

```
[JsonProperty("algorithm")]  
public string Algorithm
```

Field Value

TYPE	DESCRIPTION
System.String	

Counter

Declaration

```
[JsonProperty("counter")]  
public int Counter
```

Field Value

TYPE	DESCRIPTION
System.Int32	

PublicKey

Declaration

```
[JsonProperty("public_key")]  
public string PublicKey
```

Field Value

TYPE	DESCRIPTION
System.String	

Value

The signature value of the signed transaction.

Declaration

```
[JsonProperty("value")]  
public string Value
```

Field Value

TYPE	DESCRIPTION
System.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

System.Object

Tss

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Fiskaly.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class Tss
```

Properties

Certificate

Certificate of the tss.

Declaration

```
[JsonProperty("certificate")]  
public string Certificate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CertificateSerial

Serial number of the certificate of tss.

Declaration

```
[JsonProperty("certificate_serial")]  
public string CertificateSerial { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Description

The description of the tss.

Declaration

```
[JsonProperty("description")]
public string Description { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

id

The fiskaly id of the tss.

Declaration

```
[JsonProperty("_id")]
public string id { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Metadata

Meta properties (string dictionary).

Declaration

```
[JsonProperty("metadata")]
public Dictionary<string, string> Metadata { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.Dictionary<System.String, System.String>	

PublicKey

The cryptographic public key of the tss.

Declaration

```
[JsonProperty("public_key")]
public string PublicKey { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SignatureAlgorithm

The used signature algorithm of the tss.

Declaration

```
[JsonProperty("signature_algorithm")]
public string SignatureAlgorithm { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SignatureCounter

The actual signature counter of the tss.

Declaration

```
[JsonProperty("signature_counter")]
public long SignatureCounter { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

SignatureTimestampFormat

The timestamp format of the signature time stamp.

Declaration

```
[JsonProperty("signature_timestamp_format")]
public string SignatureTimestampFormat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

State

The state of the tss.

Declaration

```
[JsonProperty("state")]
public string State { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.Int64	

TimeDisable

Time when the tss is disabled.

Declaration

```
[JsonProperty("time_disable")]  
public long TimeDisable { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

TimeInit

Initialisation time of the tss.

Declaration

```
[JsonProperty("time_init")]  
public long TimeInit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

TransactionCounter

The actual transaction of the tss.

Declaration

```
[JsonProperty("transaction_counter")]  
public long TransactionCounter { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

TransactionDataEncoding

The data encoding of the tss.

Declaration

```
[JsonProperty("transaction_data_encoding")]  
public string TransactionDataEncoding { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Namespace

RetailForce.Fiscalisation.Implementation.Germany.Tse.Model

Classes

[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 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

System.Object

[TseRequestFormatBase](#)

[TseRequest](#)

TseOrder

Inherited Members

[TseRequest.TransactionNumber](#)

[TseRequest.TransactionRevision](#)

[TseRequestFormatBase.FormatNumber\(Int32\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.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\(Int32, Int32, List<TseOrder.TseOrderLine>\)](#)

Constructor.

Declaration

```
public TseOrder(int transactionNumber, int transactionRevision, List<TseOrder.TseOrderLine> orderlineList)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	transactionNumber	The transaction number of the request.
System.Int32	transactionRevision	The transaction revision of the request.

TYPE	NAME	DESCRIPTION
System.Collections.Generic.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
System.Collections.Generic.IReadOnlyList< TseOrder.TseOrderLine >	

ProcessType

Returns the process type of the request.

Declaration

```
public override string ProcessType { get; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.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_hm.html).

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	A string representing the string representation of this object.

Overrides

System.Object.ToString()

Class TseOrder.TseOrderLine

Represents an order line in a [TseOrder](#) request.

Inheritance

System.Object

[TseRequestFormatBase](#)

TseOrder.TseOrderLine

Inherited Members

[TseRequestFormatBase.FormatNumber\(Int32\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class 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
System.Decimal	quantity	The quantity of the order of this item. For more information see Quantity .
System.String	itemCaption	The caption of the item. For more information see ItemCaption .
System.Decimal	grossPrice	The gross price of the order of this item. For more information see GrossPrice .

Exceptions

TYPE	CONDITION
------	-----------

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>itemCaption</code> is set to null or empty string.
System.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
System.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
System.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
System.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
System.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_hm.html).

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	A string representing the string representation of this object.

Overrides

[System.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

System.Object

[TseRequestFormatBase](#)

[TseRequest](#)

TseOtherTransaction

Inherited Members

[TseRequest.TransactionNumber](#)

[TseRequest.TransactionRevision](#)

[TseRequestFormatBase.FormatNumber\(Int32\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.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(Int32, Int32, String)

Constructor.

Declaration

```
public TseOtherTransaction(int transactionNumber, int transactionRevision, string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	transactionNumber	The transaction number of the request.
System.Int32	transactionRevision	The transaction revision of the request.
System.String	data	The data of the transaction, can be every type and defined by the sender.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>data</code> 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
System.String	

ProcessType

Returns the process Type of the request.

Declaration

```
public override string ProcessType { get; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.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_hm.html).

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	A string representing the string representation of this object.

Overrides

System.Object.ToString()

Class TsePayment

Represents the payment data in a tse receipt.

Inheritance

System.Object

[TseRequestFormatBase](#)

TsePayment

Inherited Members

[TseRequestFormatBase.FormatNumber\(Int32\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TsePayment : TseRequestFormatBase
```

Constructors

[TsePayment\(Boolean, Int32, String\)](#)

Constructor.

Declaration

```
public TsePayment(bool cashPayment, int amount, string currencyIsoCode = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	cashPayment	True if the payment was done in cash; otherwise false.
System.Int32	amount	The amount of the payment (in the respective currency). The amount is multiplied by 100 (cent representation in eur).
System.String	currencyIsoCode	The currency iso code for the payment. This must be an iso 4217 currency code. Can be omitted.

Exceptions

TYPE	CONDITION
System.ArgumentOutOfRangeException	Thrown if <code>currencyIsoCode</code> is not a standard iso 4217 code.

Properties

Amount

The amount of the payment.

Declaration

```
public int Amount { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

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
System.Boolean	

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
System.String	

Separator

Represents the field separator for the string representation of this object.

Declaration

```
protected override string Separator { get; }
```

Property Value

TYPE	DESCRIPTION
System.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_hm.html).

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	A string representing the string representation of this object.

Overrides

System.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

System.Object

[TseRequestFormatBase](#)

[TseRequest](#)

TseReceipt

Inherited Members

[TseRequest.TransactionNumber](#)

[TseRequest.TransactionRevision](#)

[TseRequestFormatBase.FormatNumber\(Int32\)](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.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(Int32, Int32, TransactionType, Int32, Int32, Int32, Int32, Int32, TsePayment[])`

Constructor.

Declaration

```
public TseReceipt(int transactionNumber, int transactionRevision, TransactionType transactionType, int tax1, int tax2, int tax3, int tax4, int tax5, TsePayment[] payments = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	transactionNumber	The transaction number of the request.
System.Int32	transactionRevision	The transaction revision of the request.

TYPE	NAME	DESCRIPTION
TransactionType	transactionType	The type of the transaction according to regulation of type "Vorgang" of DSFin-VK.
System.Int32	tax1	Gross value according to tax rate 19% (common tax rate). EuroCent representation (multiple with 100).
System.Int32	tax2	Gross value according to tax rate 7% (reduced tax rate). EuroCent representation (multiple with 100).
System.Int32	tax3	Gross value according to "Durchschnittsatz (§24(1)Nr.3 UStG) (10.7%)". EuroCent representation (multiple with 100).
System.Int32	tax4	Gross value according to "Durchschnittsatz (§24(1)Nr.1 UStG) (5.5%)". EuroCent representation (multiple with 100).
System.Int32	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
System.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
System.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
System.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(Boolean, Int32, String)

Adds a payment to the payment collection.

Declaration

```
public void AddPayment(bool cashPayment, int amount, string currencyIsoCode = null)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	cashPayment	True if this payment was done by cash; otherwise false.
System.Int32	amount	The amount of the payment (multiplied with 100, eg. in EUR this is the cent representation: 3,54 EUR = 354).
System.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
System.String	A string representing the string representation of this object.

Overrides

System.Object.ToString()

Class TseRequest

Base class for a tse request (processData).

Inheritance

System.Object

[TseRequestFormatBase](#)

TseRequest

[TseOrder](#)

[TseOtherTransaction](#)

[TseReceipt](#)

Inherited Members

[TseRequestFormatBase.FormatNumber\(Int32\)](#)

[TseRequestFormatBase.Separator](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public abstract class TseRequest : TseRequestFormatBase
```

Constructors

TseRequest(Int32, Int32)

Constructor.

Declaration

```
public TseRequest(int transactionNumber, int transactionRevision)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	transactionNumber	The transaction number of the request.
System.Int32	transactionRevision	The transaction revision of the request.

Exceptions

TYPE	CONDITION
System.ArgumentOutOfRangeException	Thrown if <code>transactionNumber</code> or <code>transactionRevision</code> is less 0.

Properties

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
System.String	

TransactionNumber

The transaction number of the request.

Declaration

```
public int TransactionNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

TransactionRevision

The transaction revision of the request.

Declaration

```
public int TransactionRevision { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Class TseRequestFormatBase

Base class for tse requests with special functions to format the data.

Inheritance

System.Object

TseRequestFormatBase

[TseOrder.TseOrderLine](#)

[TsePayment](#)

[TseRequest](#)

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.String	

Methods

FormatNumber(Int32)

Formats a number in following format.

Declaration

```
protected string FormatNumber(int number)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	number	An integer representing the number to format. The number will be divided by 100 to

Returns

TYPE	DESCRIPTION
System.String	The formatted number as string.

Class TseResponse

Represents the return value of the tse after signing the transaction.

Inheritance

System.Object

TseResponse

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Implementation.Germany.Tse.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class TseResponse
```

Constructors

TseResponse(Int32, Int32, Int64, String, String, String, Int64, Int64, Int64, String, String, String, String, String, String)

Constructor.

Declaration

```
public TseResponse(int transactionNumber, int lastTransactionRevision, long tseId, string processData, string processType, string signature, long signatureCounter, long timeStart, long timeEnd, string errorDescription, string tseSerial, string tseTimeFormat, string tseHashAlgorithm, string tsePublicKey, string qrCodeDataString)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	transactionNumber	The transaction number of the currently signed transaction.
System.Int32	lastTransactionRevision	The transaction revision of the currently signed transaction.
System.Int64	tseId	The unique id of the tss (technical security system).
System.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".
System.String	processType	The process type of signed transaction. This is the processType according to "Anwendungserlass zu §146a AO".

TYPE	NAME	DESCRIPTION
System.String	signature	The signature of the tss for the signed transaction.
System.Int64	signatureCounter	The actual signature counter of the tss after signing the transaction.
System.Int64	timeStart	The start time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
System.Int64	timeEnd	The end time of the transaction. A timestamp / point in time measured in seconds since the Unix epoch.
System.String	errorDescription	The error description if the fiscalisation process failed. Empty if everything went well.
System.String	tseSerial	The serialnumber of the tss module.
System.String	tseTimeFormat	The time format which is used by the tss.
System.String	tseHashAlgorithm	The hash algorithm which is used by the tss.
System.String	tsePublicKey	The public key of the tss.
System.String	qrCodeDataString	The qrcode data string (for printing a qr code at the receipt).

Properties

ErrorDescription

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

Declaration

```
public string ErrorDescription { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LastTransactionRevision

The transaction revision of the currently signed transaction.

Declaration

```
public int LastTransactionRevision { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

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
System.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
System.String	

QrCodeDataString

The qr code data string (for printing a qr code at the receipt).

Declaration

```
public string QrCodeDataString { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Signature

The signature of the tss for the signed transaction.

Declaration

```
public string Signature { get; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.Int64	

TransactionNumber

The transaction number of the currently signed transaction.

Declaration

```
public int TransactionNumber { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

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
System.Int64	

TseHashAlgorithm

The hash algorithm which is used by the tss.

Declaration

```
public string TseHashAlgorithm { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TseId

The unique id of the tss (technical security system).

Declaration

```
public long TseId { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

TsePublicKey

The public key of the tss.

Declaration

```
public string TsePublicKey { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TseSerial

The serialnumber of the tss module.

Declaration

```
public string TseSerial { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TseSignatureCounter

The actual signature counter of the tss after signing the transaction.

Declaration

```
public long TseSignatureCounter { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int64	

TseTimeFormat

The time format which is used by the tss.

Declaration

```
public string TseTimeFormat { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Namespace RetailForce.Fiscalisation.Logger

Classes

[FiscalLogger](#)

Fiscal Logger

[FiscalLoggerProvider](#)

Fiscal logger provider

Class FiscalLogger

Fiscal Logger

Inheritance

System.Object

FiscalLogger

Implements

Microsoft.Extensions.Logging.ILogger

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Logger](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class FiscalLogger : ILogger
```

Constructors

FiscalLogger(FiscalLoggerProvider, LogLevel, Boolean)

Constructor

Declaration

```
public FiscalLogger(FiscalLoggerProvider loggerProvider, LogLevel minLogLevel, bool isService)
```

Parameters

TYPE	NAME	DESCRIPTION
FiscalLoggerProvider	loggerProvider	
Microsoft.Extensions.Logging.LogLevel	minLogLevel	
System.Boolean	isService	

Methods

BeginScope<TState>(TState)

Declaration

```
public IDisposable BeginScope<TState>(TState state)
```

Parameters

TYPE	NAME	DESCRIPTION
TState	state	

Returns

TYPE	DESCRIPTION
System.IDisposable	

Type Parameters

NAME	DESCRIPTION
TState	

GetLogMessages(Nullable<Int64>)

Get log messages TODO not static

Declaration

```
public List<LogMessage<string>> GetLogMessages(long? fromTimestamp)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Int64>	fromTimestamp	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<LogMessage<System.String>>	

IsEnabled(LogLevel)

Declaration

```
public bool IsEnabled(LogLevel logLevel)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.LogLevel	logLevel	

Returns

TYPE	DESCRIPTION
System.Boolean	

Log<TState>(LogLevel, EventId, TState, Exception, Func<TState, Exception, String>)

Declaration

```
public void Log<TState>(LogLevel logLevel, EventId eventId, TState state, Exception exception, Func<TState, Exception, string> formatter)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.LogLevel	logLevel	
Microsoft.Extensions.Logging.EventId	eventId	
TState	state	
System.Exception	exception	
System.Func<TState, System.Exception, System.String>	formatter	

Type Parameters

NAME	DESCRIPTION
TState	

Implements

Microsoft.Extensions.Logging.ILogger

Class FiscalLoggerProvider

Fiscal logger provider

Inheritance

System.Object

FiscalLoggerProvider

Implements

Microsoft.Extensions.Logging.ILoggerProvider

System.IDisposable

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Logger](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class FiscalLoggerProvider : ILoggerProvider, IDisposable
```

Constructors

FiscalLoggerProvider(LogLevel, Boolean, String)

Constructor

Declaration

```
public FiscalLoggerProvider(LogLevel minLogLevel, bool isService, string logfilePath)
```

Parameters

TYPE	NAME	DESCRIPTION
Microsoft.Extensions.Logging.LogLevel	minLogLevel	
System.Boolean	isService	
System.String	logfilePath	

Methods

CreateLogger(String)

Creates the new Logger instance

Declaration

```
public ILogger CreateLogger(string categoryName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	categoryName	

Returns

TYPE	DESCRIPTION
Microsoft.Extensions.Logging.ILogger	

Dispose()

Dispose

Declaration

```
public void Dispose()
```

Implements

Microsoft.Extensions.Logging.ILoggerProvider

System.IDisposable

Namespace RetailForce.Fiscalisation.Model

Classes

[DocumentJsonConverter](#)

Json Converter to read document json.

[DocumentValidationBase](#)

Basic class for all document classes for validation.

[Partner](#)

The partner for a document.

[Payment](#)

Payment for payment stock.

[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.

[PartnerType](#)

The type of the partner.

Enum BusinessTransactionType

The type for the business transaction.

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum BusinessTransactionType
```

Remarks

When adding a new business transaction type add validation for the new type at .

Fields

NAME	DESCRIPTION
CashDifference	Cash difference of the cash register when checking the cash stock.
Discount	Discount of line item of the cash register system.
MoneyTransfer	Money Transfer from or to the cash register (for instance from/to bank).
PayIn	Pay in to the cash register system.
PayOut	Pay out for the cash register system.
Revenue	Revenue of the cash register system.

Class DocumentJsonConverter

Json Converter to read document json.

Inheritance

System.Object

Newtonsoft.Json.JsonConverter

DocumentJsonConverter

Inherited Members

Newtonsoft.Json.JsonConverter.CanRead

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Boolean	

Overrides

Newtonsoft.Json.JsonConverter.CanWrite

Methods

CanConvert(Type)

Declaration

```
public override bool CanConvert(Type objectType)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Type	objectType	

Returns

TYPE	DESCRIPTION
System.Boolean	

Overrides

Newtonsoft.Json.JsonConverter.CanConvert(System.Type)

ReadJson(JsonReader, Type, Object, JsonSerializer)

Declaration

```
public override object ReadJson(JsonReader reader, Type objectType, object existingValue, JsonSerializer serializer)
```

Parameters

TYPE	NAME	DESCRIPTION
Newtonsoft.Json.JsonReader	reader	
System.Type	objectType	
System.Object	existingValue	
Newtonsoft.Json.JsonSerializer	serializer	

Returns

TYPE	DESCRIPTION
System.Object	

Overrides

Newtonsoft.Json.JsonConverter.ReadJson(Newtonsoft.Json.JsonReader, System.Type, System.Object, Newtonsoft.Json.JsonSerializer)

WriteJson(JsonWriter, Object, JsonSerializer)

Declaration

```
public override void WriteJson(JsonWriter writer, object value, JsonSerializer serializer)
```

Parameters

TYPE	NAME	DESCRIPTION
Newtonsoft.Json.JsonWriter	writer	
System.Object	value	
Newtonsoft.Json.JsonSerializer	serializer	

Overrides

Newtonsoft.Json.JsonConverter.WriteJson(Newtonsoft.Json.JsonWriter, System.Object, Newtonsoft.Json.JsonSerializer)

Class DocumentValidationBase

Basic class for all document classes for validation.

Inheritance

System.Object

ValidationBase<DocumentValidationError>

ValidationPropertyBase<DocumentValidationError>

DocumentValidationBase

Discount

Document

DocumentPayment

DocumentPositionBase

DocumentReference

Inherited Members

ValidationPropertyBase<DocumentValidationError>.Validate()

ValidationPropertyBase<DocumentValidationError>.ValidateProperties()

ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

ValidationBase<DocumentValidationError>.ValidateElement()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model](#)

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

Syntax

```
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
System.String	

Overrides

[RetailForce.Fiscalisation.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.
System.String	declaringTypeName	The name of the declaring type of the property with the validation error.
System.String	propertyName	The name of the property with the validation error.
System.String	errorString	The error description of the property error.

Returns

TYPE	DESCRIPTION
DocumentValidationError	An DocumentValidationError representing the ValidationError.

Overrides

RetailForce.Fiscalisation.ValidationPropertyBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.AddPropertyError(RetailForce.Fiscalisation.ErrorLevel, System.String, System.String, System.String)

Class Partner

The partner for a document.

Inheritance

System.Object

[Address](#)

Partner

Inherited Members

[Address.Street](#)

[Address.StreetNumber](#)

[Address.PostalCode](#)

[Address.City](#)

[Address.CountryCode](#)

[Address.FullStreet](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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

Address

The address of the partner

Declaration

```
public Address Address { get; set; }
```

Property Value

TYPE	DESCRIPTION
Address	

Caption

The caption (=name) of the partner.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Id

The id of the partner.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

PartnerClassification

The classification of group or type of the partner (not the [PartnerType](#)).

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Remarks

This field can be used for subclassing customers (for instance). Therefore it can be used for customer groups, supplier groups etc.

PartnerType

The type of this partner. For possible types see [PartnerType](#).

Declaration

```
public PartnerType PartnerType { get; set; }
```

Property Value

TYPE	DESCRIPTION
PartnerType	

VatNumber

The vat number of the partner

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Enum PartnerType

The type of the partner.

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum PartnerType
```

Fields

NAME	DESCRIPTION
Customer	Represents a customer (buyer).

Class Payment

Payment for payment stock.

Inheritance

System.Object

Payment

Implements

System.IEquatable<[Payment](#)>

Inherited Members

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Decimal	

Caption

The caption of the payment.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

CurrencyIsoCode

The currency code of the payment.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.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
System.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
System.Decimal	

IsCash

True if it is an cash payment; otherwise false (electronic, voucher, etc.)

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Boolean	

UniqueReadablePaymentIdentifier

The unique identifier for this payment.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Methods

Equals(DocumentPayment)

Declaration

```
public bool Equals(DocumentPayment payment)
```

Parameters

TYPE	NAME	DESCRIPTION
DocumentPayment	payment	

Returns

TYPE	DESCRIPTION
System.Boolean	

Equals(Payment)

Declaration

```
public bool Equals(Payment other)
```

Parameters

TYPE	NAME	DESCRIPTION
Payment	other	

Returns

TYPE	DESCRIPTION
System.Boolean	

Equals(Object)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.Object	obj	

Returns

TYPE	DESCRIPTION
System.Boolean	

Overrides

System.Object.Equals(System.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

Equality(DocumentPayment, Payment)

Declaration

```
public static bool operator ==(DocumentPayment payment, Payment payment1)
```

Parameters

TYPE	NAME	DESCRIPTION
DocumentPayment	payment	
Payment	payment1	

Returns

TYPE	DESCRIPTION
System.Boolean	

Equality(Payment, DocumentPayment)

Declaration

```
public static bool operator ==(Payment payment1, DocumentPayment payment)
```

Parameters

TYPE	NAME	DESCRIPTION
Payment	payment1	
DocumentPayment	payment	

Returns

TYPE	DESCRIPTION
System.Boolean	

Equality(Payment, Payment)

Declaration

```
public static bool operator ==(Payment payment1, Payment payment2)
```

Parameters

TYPE	NAME	DESCRIPTION
Payment	payment1	
Payment	payment2	

Returns

TYPE	DESCRIPTION
System.Boolean	

Inequality(DocumentPayment, Payment)

Declaration

```
public static bool operator !=(DocumentPayment payment, Payment payment1)
```

Parameters

TYPE	NAME	DESCRIPTION
DocumentPayment	payment	
Payment	payment1	

Returns

TYPE	DESCRIPTION
System.Boolean	

Inequality(Payment, DocumentPayment)

Declaration

```
public static bool operator !=(Payment payment1, DocumentPayment payment)
```

Parameters

TYPE	NAME	DESCRIPTION
Payment	payment1	
DocumentPayment	payment	

Returns

TYPE	DESCRIPTION
System.Boolean	

Inequality(Payment, Payment)

Declaration

```
public static bool operator !=(Payment payment1, Payment payment2)
```

Parameters

TYPE	NAME	DESCRIPTION
Payment	payment1	
Payment	payment2	

Returns

TYPE	DESCRIPTION
System.Boolean	

Implements

System.IEquatable<T>

Class User

The user for a document.

Inheritance

System.Object

User

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class User
```

Properties

Caption

The caption / name of the user.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Id

The id of the user.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Class Vat

Represents the value added tax for document and document positions.

Inheritance

System.Object

Vat

Implements

System.ICloneable

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class Vat : ICloneable
```

Properties

Caption

The caption for this tax item.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.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
System.Boolean	

ValidFrom

defines the start date from when the vat object is valid default value is

RetailForce.Fiscalisation.Constants.CommonConstants.MinDate

Declaration

```
[Required]  
public DateTime ValidFrom { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

ValidTo

defines the end date from when the vat object is valid default value is
RetailForce.Fiscalisation.Constants.CommonConstants.MaxDate

Declaration

```
[Required]  
public DateTime ValidTo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

VatIdentification

The vat identification number.

Declaration

```
[Required]  
public int VatIdentification { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

VatPercents

The percentage for this item.

Declaration

```
[Required]  
public List<decimal> VatPercents { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.Decimal>	

Methods

Clone()

Clones the current object.

Declaration

```
public object Clone()
```

Returns

TYPE	DESCRIPTION
System.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
System.Decimal	vatPercent1	The percentage for calculation.
System.Decimal	netValue	The net value for calculation.

Returns

TYPE	DESCRIPTION
System.Decimal	The calculated gross value.

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
System.Decimal	vatPercent1	The percentage for calculation.
System.Decimal	grossValue	The gross value for calculation.

Returns

TYPE	DESCRIPTION
System.Decimal	The calculated net value.

Implements

System.ICloneable

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.

[DocumentPositionReference](#)

A document position reference.

[DocumentPositionText](#)

Represents a text position.

[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).

[DocumentTypeExtensions](#)

[DocumentValidationError](#)

Represents a document validation error.

Interfaces

[IBusinessTransactionTypePosition](#)

Interface for all positions containing a business transaction type.

[IVatPosition](#)

Interface for all positions having vat.

Enums

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.

ReferenceType

The reference type of the document (position) reference.

Class Discount

Represents a discount of a position.

Inheritance

System.Object

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

Discount

Inherited Members

[DocumentValidationBase.VALIDATION_ERROR_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class Discount : DocumentValidationBase
```

Properties

Caption

The name of the discount.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

DiscountOrder

The order of the discount.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

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
System.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.

DocumentLevel

The validation level for this element.

Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

Property Value

TYPE	DESCRIPTION
DocumentLevel	

Overrides

[DocumentValidationBase.DocumentLevel](#)

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
System.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. 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

ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects.

Overrides

[RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

Enum DiscountType

The type of the discount.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
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

System.Object

ValidationBase<DocumentValidationError>

ValidationPropertyBase<DocumentValidationError>

DocumentValidationBase

Document

Inherited Members

DocumentValidationBase.VALIDATION_ERROR_SOURCE

DocumentValidationBase.AddPropertyError(ErrorLevel, String, String, String)

ValidationPropertyBase<DocumentValidationError>.Validate()

ValidationPropertyBase<DocumentValidationError>.ValidateProperties()

ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public 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
System.ArgumentNullException	Thrown if <code>response</code> parameter is set to null.

Properties

AllocationGroups

The allocation group for the document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

Remarks

Country specific implementation:

-

BookDate

The storage date of the document.

Declaration

```
[Required]
public DateTime BookDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

CancellationDocument

True if this document cancels another document; otherwise false.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Boolean	

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 DateTime CreateDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

DocumentGuid

The identification of the document.

Declaration

```
public Guid DocumentGuid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Remarks

Not required, if not set it will be automatically set by the fiscal system.

DocumentId

The unique identification of the document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Remarks

Should be continuous and unique identification of all documents. required, max length = 40.

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).

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

DocumentReference

Reference to another document.

Declaration

```
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

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

FiscalDocumentNumber

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

FiscalDocumentRevision

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

FiscalResponse

The fiscal response for this document when signed by fiscalisation unit.

Declaration

```
public FiscalResponse FiscalResponse { get; }
```

Property Value

TYPE	DESCRIPTION
FiscalResponse	

IsTraining

True if this document is a training document; otherwise false.

Declaration

```
[Required]  
public bool IsTraining { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Partner

The partner for the document. A partner can be for instance a customer, a supplier, etc.

Declaration

```
public Partner Partner { get; set; }
```

Property Value

TYPE	DESCRIPTION
Partner	

Payments

The payments for the document.

Declaration

```
public List<DocumentPayment> Payments { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentPayment >	

Remarks

Depending on the document type it is necessary to have payments attached or not.

Positions

The positions for the document.

Declaration

```
[Required]
public List<DocumentPositionBase> Positions { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentPositionBase >	

Remarks

Positions can be of type:

- [ItemPosition](#)
- [TextPosition](#)
- [SubItemPosition](#)

UniqueClientId

Represents the client for this document.

Declaration

```
[Required]
public Guid UniqueClientId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Remarks

The client must be found in the current configuration and may not be System.Guid.Empty.

User

The user for this transaction.

Declaration

```
public User User { get; set; }
```

Property Value

TYPE	DESCRIPTION
User	

Methods

ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects.

Overrides

RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()

Extension Methods

[DocumentExtension.GetItemPositions\(Document\)](#)

[DocumentExtension.GetTaxPositions\(Document\)](#)

Class DocumentExtension

Inheritance

System.Object

DocumentExtension

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class DocumentExtension
```

Methods

GetItemPositions(Document)

Returns all positions of type item [DocumentPositionType](#).

Declaration

```
public static List<DocumentPositionItem> GetItemPositions(this Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentPositionItem >	

GetTaxPositions(Document)

The summary of the tax positions for the document.

Declaration

```
public static List<DocumentTaxPosition> GetTaxPositions(this Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentTaxPosition >	

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

System.Object

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

DocumentPayment

Inherited Members

[DocumentValidationBase.VALIDATION_ERROR_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class DocumentPayment : DocumentValidationBase
```

Properties

Amount

The amount of the payment in the currency of the cash register.

Declaration

```
[Required]  
public decimal Amount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Caption

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

CurrencyIsoCode

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

DocumentLevel

The validation level for this element.

Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

Property Value

TYPE	DESCRIPTION
DocumentLevel	

Overrides

[DocumentValidationBase.DocumentLevel](#)

ForeignAmount

Declaration

```
public decimal ForeignAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

ForeignAmountExchangeRate

Declaration

```
public decimal ForeignAmountExchangeRate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

IsCash

Declaration


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

Property Value

TYPE	DESCRIPTION
System.Boolean	

UniqueReadablePaymentIdentifier

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ValidateElement()

Validates the element and returns a list of [DocumentValidationError](#) objects.

Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects.

Overrides

[RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

Class DocumentPositionBase

Base class for all positions.

Inheritance

System.Object

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

DocumentPositionBase

[DocumentPositionText](#)

[DocumentPositionVatPosition](#)

Inherited Members

[DocumentValidationBase.VALIDATION_ERROR_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[ValidationBase<DocumentValidationError>.ValidateElement\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

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

Syntax

```
[JsonConverter(typeof(DocumentJsonConverter))]  
public abstract class DocumentPositionBase : DocumentValidationBase
```

Properties

CancellationPosition

True if this position cancels a position of another document; otherwise false.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Boolean	

Remarks

Please ensure to set [PositionReference](#) with type [Cancellation](#) if setting this property to true.

DocumentLevel

The validation level for this element.

Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

Property Value

TYPE	DESCRIPTION
DocumentLevel	

Overrides

[DocumentValidationBase.DocumentLevel](#)

PositionNumber

The number of the position in the position sequence.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

PositionReference

Referene to another document position.

Declaration

```
public DocumentPositionReference PositionReference { get; set; }
```

Property Value

TYPE	DESCRIPTION
DocumentPositionReference	

Remarks

Must be set if the NetValue/GrossValue of the position is negative value.

Type

The type of the position. For possible types see [DocumentPositionType](#).

Declaration

```
public abstract DocumentPositionType Type { get; }
```

Property Value

TYPE	DESCRIPTION
DocumentPositionType	

Methods

ToString()

Returns the string representation for this [DocumentPositionBase](#).

Returns the string representation for this [DocumentPositionBase](#).

Declaration

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

Returns

TYPE	DESCRIPTION
System.String	The string representation for this DocumentPositionBase .

Overrides

System.Object.ToString()

Class DocumentPositionBooking

Represents a booking position. A booking position can be used for booking values (instead of items).

Inheritance

System.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

DocumentPositionBase.PositionNumber

DocumentPositionBase.PositionReference

DocumentPositionBase.CancellationPosition

DocumentPositionBase.DocumentLevel

DocumentPositionBase.ToString()

DocumentValidationBase.VALIDATION_ERROR_SOURCE

DocumentValidationBase.AddPropertyError(ErrorLevel, String, String, String)

ValidationPropertyBase<DocumentValidationError>.Validate()

ValidationPropertyBase<DocumentValidationError>.ValidateProperties()

ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.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]
public string Caption { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Identifier

An additional identifier for the booking.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.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

ValidateElement()

Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	

Overrides

[RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

Implements

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

Extension Methods

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)

Class DocumentPositionItem

One position of one document. Document positions can have multiple types.

Inheritance

System.Object

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

DocumentPositionItem

Implements

System.ICloneable

[IBusinessTransactionTypePosition](#)

[IVatPosition](#)

Inherited Members

[DocumentPositionVatPosition.AccountingIdentifier](#)

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.DocumentLevel](#)

[DocumentValidationBase.VALIDATION_ERROR_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

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

Syntax

```
public class DocumentPositionItem : DocumentPositionVatPosition, ICloneable, 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
System.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
System.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
System.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	

Discounts

A list of all discounts for this position.

Declaration

```
public List<Discount> Discounts { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.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.

GrossValue

The gross value of the position (including tax) with all included discounts and extra charges.

Declaration

```
[Required]
public override decimal GrossValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Overrides

[DocumentPositionVatPosition.GrossValue](#)

GTIN

The global trade identification number for the item.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

ItemCaption

Represents the caption of the item.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

ItemId

Declaration

```
[Required]
public string ItemId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ItemShortCaption

Represents a short caption for the item (e.g. used for printing purposes on receipt print).

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

NetValue

The net value of the position (excluding tax) with all included discounts and extra charges.

Declaration

```
[Required]
public override decimal NetValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Overrides

[DocumentPositionVatPosition.NetValue](#)

Quantity

The quantity of the the position.

Declaration

```
[Required]
public decimal Quantity { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

TaxValue

The tax value of the position with all included discounts and extra charges.

Declaration

```
[Required]
public override decimal TaxValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Overrides

[DocumentPositionVatPosition.TaxValue](#)

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](#)

VatIdentification

The vat identification number.

Declaration

```
[Required]
public override int VatIdentification { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Overrides

[DocumentPositionVatPosition.VatIdentification](#)

VatPercent

The percentage of the vat

Declaration

```
[Required]
public override decimal VatPercent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Overrides

[DocumentPositionVatPosition.VatPercent](#)

Methods

Clone()

Clones the position to a new object.

Declaration

```
public object Clone()
```

Returns

TYPE	DESCRIPTION
System.Object	A DocumentPositionItem object representing the copy of the actual position.

ToString()

Returns the string representation for this [DocumentPositionItem](#).

Declaration

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

Returns

TYPE	DESCRIPTION
System.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
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects.

Overrides

[RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

Exceptions

TYPE	CONDITION
System.NotImplemented	Thrown if a certain DiscountType is not supported.

Implements

System.ICloneable

IBusinessTransactionTypePosition

IVatPosition

Extension Methods

DocumentModelExtensions.GetBaseNetValue(IBusinessTransactionTypePosition)

DocumentModelExtensions.GetBaseGrossValue(IBusinessTransactionTypePosition)

DocumentModelExtensions.GetBaseTaxValue(IBusinessTransactionTypePosition)

DocumentModelExtensions.GetCaption(IBusinessTransactionTypePosition)

Class DocumentPositionReference

A document position reference.

Inheritance

System.Object

ValidationBase<DocumentValidationError>

ValidationPropertyBase<DocumentValidationError>

DocumentValidationBase

DocumentReference

DocumentPositionReference

Inherited Members

DocumentReference.ReferenceType

DocumentReference.StoreNumber

DocumentReference.TerminalNumber

DocumentReference.DocumentType

DocumentReference.DocumentNumber

DocumentReference.FiscalDocumentNumber

DocumentReference.DocumentGuid

DocumentReference.DocumentId

DocumentReference.DocumentBookDate

DocumentValidationBase.VALIDATION_ERROR_SOURCE

DocumentValidationBase.AddPropertyError(ErrorLevel, String, String, String)

ValidationPropertyBase<DocumentValidationError>.Validate()

ValidationPropertyBase<DocumentValidationError>.ValidateProperties()

ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

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

Syntax

```
public class DocumentPositionReference : 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

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
System.Int32	

Methods

ValidateElement()

Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	

Overrides

[DocumentReference.ValidateElement\(\)](#)

Class DocumentPositionText

Represents a text position.

Inheritance

System.Object

ValidationBase<DocumentValidationError>

ValidationPropertyBase<DocumentValidationError>

DocumentValidationBase

DocumentPositionBase

DocumentPositionText

Inherited Members

DocumentPositionBase.PositionNumber

DocumentPositionBase.PositionReference

DocumentPositionBase.CancellationPosition

DocumentPositionBase.DocumentLevel

DocumentValidationBase.VALIDATION_ERROR_SOURCE

DocumentValidationBase.AddPropertyError(ErrorLevel, String, String, String)

ValidationPropertyBase<DocumentValidationError>.Validate()

ValidationPropertyBase<DocumentValidationError>.ValidateProperties()

ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>(Boolean)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

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

Syntax

```
public class DocumentPositionText : DocumentPositionBase
```

Properties

Text

The text of the position.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.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

ToString()

Returns the string representation for this [DocumentPositionText](#).

Declaration

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

Returns

TYPE	DESCRIPTION
System.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
System.Collections.Generic.List< DocumentValidationError >	A list of DocumentValidationError objects.

Overrides

[RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement\(\)](#)

Enum DocumentPositionType

Represents the possible types of a document position.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

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

Syntax

```
public enum DocumentPositionType
```

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.
Text	Represents a text position.

Class DocumentPositionVatPosition

Base class for all positions having vat.

Inheritance

[System.Object](#)

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

[DocumentPositionBase](#)

[DocumentPositionVatPosition](#)

[DocumentPositionBooking](#)

[DocumentPositionItem](#)

Implements

[IVatPosition](#)

Inherited Members

[DocumentPositionBase.PositionNumber](#)

[DocumentPositionBase.PositionReference](#)

[DocumentPositionBase.CancellationPosition](#)

[DocumentPositionBase.Type](#)

[DocumentPositionBase.DocumentLevel](#)

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

[DocumentValidationBase.VALIDATION_ERROR_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[ValidationBase<DocumentValidationError>.ValidateElement\(\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

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

Syntax

```
public abstract class DocumentPositionVatPosition : DocumentPositionBase, IVatPosition
```

Properties

AccountingIdentifier

An additional identifier for accounting purposes (accounting interface).

Declaration

```
public virtual string AccountingIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GrossValue

The gross value of the booking.

Declaration

```
[Required]
public virtual decimal GrossValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

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
System.Decimal	

TaxValue

The vat value of the booking.

Declaration

```
public virtual decimal TaxValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

VatIdentification

The value added tax for this position.

Declaration

```
[Required]
public virtual int VatIdentification { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

VatPercent

The percentage of the vat

Declaration

```
[Required]  
public virtual decimal VatPercent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Implements

[IVatPosition](#)

Class DocumentReference

A document reference used for referencing other documents (when canceling, linking, etc.).

Inheritance

System.Object

[ValidationBase<DocumentValidationError>](#)

[ValidationPropertyBase<DocumentValidationError>](#)

[DocumentValidationBase](#)

DocumentReference

[DocumentPositionReference](#)

Inherited Members

[DocumentValidationBase.VALIDATION_ERROR_SOURCE](#)

[DocumentValidationBase.AddPropertyError\(ErrorLevel, String, String, String\)](#)

[ValidationPropertyBase<DocumentValidationError>.Validate\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidateProperties\(\)](#)

[ValidationPropertyBase<DocumentValidationError>.ValidatePropertiesAbstract<RequiredAttributeType>\(Boolean\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.Object.ToString\(\)](#)

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class DocumentReference : DocumentValidationBase
```

Properties

DocumentBookDate

The storage date of the referenced document.

Declaration

```
public DateTime DocumentBookDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.DateTime	

DocumentGuid

The document guid of the referenced document.

Declaration

```
public Guid DocumentGuid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Remarks

Either the [DocumentGuid](#) or the complete document key ([StoreNumber](#), [TerminalNumber](#), [DocumentType](#) and [DocumentNumber/FiscalDocumentNumber](#)) must be set.

DocumentId

The unique identification of the document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Remarks

Should be continuous and unique identification of all documents. required, max length = 40.

DocumentLevel

Declaration

```
protected override DocumentLevel DocumentLevel { get; }
```

Property Value

TYPE	DESCRIPTION
DocumentLevel	

Overrides

[DocumentValidationBase.DocumentLevel](#)

DocumentNumber

The document number of the referenced document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

DocumentType

The type of the referenced document.

Declaration


```
public DocumentType? DocumentType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Nullable< DocumentType >	

FiscalDocumentNumber

The fiscal document number of the referenced document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

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	

StoreNumber

The store number of the referenced document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

TerminalNumber

The terminal number of the referenced document.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ValidateElement()

Declaration

```
protected override List<DocumentValidationError> ValidateElement()
```

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	

Overrides

RetailForce.Fiscalisation.ValidationBase<RetailForce.Fiscalisation.Model.Document.DocumentValidationError>.ValidateElement()

Class DocumentTaxPosition

Represents a tax position (summary for all tax items on a document).

Inheritance

System.Object

DocumentTaxPosition

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.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
System.Decimal	

NetAmount

The net amount (without vat) for this vat position.

Declaration

```
public decimal NetAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

VatAmount

The amount of the vat for this vat position.

Declaration

```
public decimal VatAmount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

VatIdentification

The identification for this vat position.

Declaration

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

Property Value

TYPE	DESCRIPTION
System.Int32	

VatPercent1

The percentage for this vat position.

Declaration

```
public decimal VatPercent1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Enum DocumentType

The type of the document.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum DocumentType
```

Remarks

Not every document type is used for every storage provider and fiscal interface.

You can find supported document types at

Fields

NAME	DESCRIPTION
DeliveryNote	Delivery note to a customer.
EndOfDay	End Of Day Receipt
Invoice	Invoice to a customer.
PayIn	Pay in to the cash register system.
PayOut	Pay out for the cash register system.
Receipt	Receipt of a cash register system.
TableOrder	Table order (Gastronomy).

Extension Methods

[DocumentTypeExtensions.In\(DocumentType\[\]\)](#)

Class DocumentTypeExtensions

Inheritance

System.Object

DocumentTypeExtensions

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public static class DocumentTypeExtensions
```

Methods

In(DocumentType, DocumentType[])

Declaration

```
public static bool In(this DocumentType documentType, params DocumentType[] parameters)
```

Parameters

TYPE	NAME	DESCRIPTION
DocumentType	documentType	
DocumentType[]	parameters	

Returns

TYPE	DESCRIPTION
System.Boolean	

Class DocumentValidationError

Represents a document validation error.

Inheritance

System.Object

[ValidationError](#)

DocumentValidationError

Inherited Members

[ValidationError.ErrorLevel](#)

[ValidationError.ErrorText](#)

[ValidationError.ErrorSource](#)

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.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 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.
System.String	errorText	The description of the error.
System.String	errorSource	The source module of the error. If omitted "Document" is assumed.

Exceptions

TYPE	CONDITION
System.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
System.String	The string representation for this DocumentValidationError .

Overrides

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

Interface IBusinessTransactionTypePosition

Interface for all positions containing a business transaction type.

Inherited Members

[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	

Extension Methods

[DocumentModelExtensions.GetBaseNetValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseGrossValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetBaseTaxValue\(IBusinessTransactionTypePosition\)](#)

[DocumentModelExtensions.GetCaption\(IBusinessTransactionTypePosition\)](#)

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
System.String	

GrossValue

The gross value of the booking.

Declaration

```
decimal GrossValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.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
System.Decimal	

TaxValue

The vat value of the booking.

Declaration

```
decimal TaxValue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

VatIdentification

The value added tax for this position.

Declaration

```
int VatIdentification { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

VatPercent

The percentage of the vat

Declaration

```
decimal VatPercent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Decimal	

Enum ReferenceType

The reference type of the document (position) reference.

Namespace: [RetailForce.Fiscalisation.Model.Document](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public enum ReferenceType
```

Fields

NAME	DESCRIPTION
Cancellation	Represents a type to a voided document / document position.

Namespace RetailForce.Fiscalisation.Provider

Classes

[CloudStorageProvider](#)

Represents a storage provider to the retail experts cloud system.

[FileAlreadyExistsException](#)

Represents an exception if a file already exists on the given path.

[FileStorageProvider](#)

Represents storage of documents to files in given directory.

[PaymentStockInfo](#)

Content of the client cash stock file.

[PaymentStockProvider](#)

Provider to store stock information for payments.

Interfaces

[IStorageProvider](#)

Represents a storage provider for digital documents.

Class CloudStorageProvider

Represents a storage provider to the retail experts cloud system.

Inheritance

System.Object

CloudStorageProvider

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class CloudStorageProvider
```

Class FileAlreadyExistsException

Represents an exception if a file already exists on the given path.

Inheritance

System.Object
System.Exception
FileAlreadyExistsException

Implements

System.Runtime.Serialization.ISerializable

Inherited Members

System.Exception.GetBaseException()
System.Exception.GetObjectData(System.Runtime.Serialization.SerializationInfo, System.Runtime.Serialization.StreamingContext)
System.Exception.GetType()
System.Exception.ToString()
System.Exception.Data
System.Exception.HelpLink
System.Exception.HResult
System.Exception.InnerException
System.Exception.Source
System.Exception.StackTrace
System.Exception.TargetSite
System.Exception.SerializeObjectState
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.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
System.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
System.String	filename	The filename of the file which already exists on disk.
System.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
System.String	

Message

The message for this exception.

Declaration

```
public string Message { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Implements

System.Runtime.Serialization.ISerializable

Class FileStorageProvider

Represents storage of documents to files in given directory.

Inheritance

System.Object

[LoggingBase](#)

FileStorageProvider

Implements

[IStorageProvider](#)

[IDocumentInterface](#)

Inherited Members

[LoggingBase._logger](#)

[LoggingBase._logSource](#)

[LoggingBase.LogCritical\(String, Object\[\]\)](#)

[LoggingBase.LogCritical\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogError\(String, Object\[\]\)](#)

[LoggingBase.LogError\(Exception, String, Object\[\]\)](#)

[LoggingBase.LogWarning\(String, Object\[\]\)](#)

[System.Object.Equals\(System.Object\)](#)

[System.Object.Equals\(System.Object, System.Object\)](#)

[System.Object.GetHashCode\(\)](#)

[System.Object.GetType\(\)](#)

[System.Object.MemberwiseClone\(\)](#)

[System.Object.ReferenceEquals\(System.Object, System.Object\)](#)

[System.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
Microsoft.Extensions.Logging.ILogger	logger	The logger for this class.
System.String	basePath	The path where the files should be stored. Must not be null or empty.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>basePath</code> was set to null or empty string.
System.IO.DirectoryNotFoundException	Thrown if directory <code>basePath</code> 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
System.Collections.Generic.IReadOnlyList< DocumentType >	

SupportedDocumentTypes

Returns all supported document types by this provider.

Declaration

```
public IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

Methods

BeginTransaction(Nullable<Guid>)

Starts a new transaction on this interface.

Declaration

```
public void BeginTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>transactionId</code> is set to null or System.Guid.Empty.
System.InvalidOperationException	Thrown if a transaction is already running and this function is called again.

CommitTransaction(Nullable<Guid>)

Commits the transaction on this interface.

Declaration

```
public void CommitTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the current transaction. The transactionId is the DocumentGuid of the Document .

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>transactionId</code> is set to null or System.Guid.Empty.
System.InvalidOperationException	Thrown if this function is called and no transaction was started before.
System.ArgumentException	Thrown if the <code>transactionId</code> is not the actual running transaction.

RollbackTransaction(Nullable<Guid>)

Roll the transaction on this interface back.

Declaration

```
public void RollbackTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the current transaction. The transactionId is the DocumentGuid of the Document .

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if <code>transactionId</code> is set to null or System.Guid.Empty.
System.InvalidOperationException	Thrown if this function is called and no transaction was started before.
System.ArgumentException	Thrown if the <code>transactionId</code> is not the actual running transaction.

StoreDocument(Nullable<Guid>, Document)

Stores a document with this provider.

Declaration

```
public void StoreDocument(Guid? transactionId, Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.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
System.ArgumentNullException	Thrown if <code>document</code> or <code>transactionId</code> is set to null (or Guid.Empty).
System.IO.InvalidDataException	Thrown if the serialized string is null or empty.
System.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.
System.ArgumentException	Thrown if the <code>transactionId</code> is not the actual running transaction.

ValidateDocument(Document)

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

Declaration

```
public List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document to validate.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.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.SupportedDocumentTypes](#)

[IDocumentInterface.ProcessingDocumentTypes](#)

[IDocumentInterface.ValidateDocument\(Document\)](#)

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public interface IStorageProvider : IDocumentInterface
```

Methods

BeginTransaction(Nullable<Guid>)

Starts a new transaction on this interface.

Declaration

```
void BeginTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

CommitTransaction(Nullable<Guid>)

Commits the transaction on this interface.

Declaration

```
void CommitTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

RollbackTransaction(Nullable<Guid>)

Roll the transaction on this interface back.

Declaration

```
void RollbackTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

StoreDocument(Nullable<Guid>, Document)

Stores a document with this provider.

Declaration

```
void StoreDocument(Guid? transactionId, Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .
Document	document	The document to store.

Class PaymentStockInfo

Content of the client cash stock file.

Inheritance

System.Object

PaymentStockInfo

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public sealed class PaymentStockInfo
```

Properties

EditInfo

Edit information for the file.

Declaration

```
[JsonRequired]  
public string EditInfo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Hash

The hash of the payment collection ([Payments](#)) and the [EditInfo](#) for security reasons.

Declaration

```
[JsonProperty("Hash")]  
[JsonRequired]  
public string Hash { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Payments

List of payment records containing the stock of each payment.

Declaration

```
[JsonRequired]  
public List<Payment> Payments { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<Payment>	

UniqueClientIdentifier

The unique client id of the corresponding [FiscalClient](#)

Declaration

```
[JsonRequired]  
public Guid UniqueClientIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Guid	

Methods

CheckHashCode()

Check whether the stored hashcode ([Hash](#)) is correct with the given values.

Declaration

```
public bool CheckHashCode()
```

Returns

TYPE	DESCRIPTION
System.Boolean	True if the hash is correct; otherwise false.

Class PaymentStockProvider

Provider to store stock information for payments.

Inheritance

System.Object

PaymentStockProvider

Implements

[IStorageProvider](#)

[IDocumentInterface](#)

System.IDisposable

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Provider](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
public class PaymentStockProvider : IStorageProvider, IDocumentInterface, IDisposable
```

Remarks

This provider is used to use simple closing methods.

Constructors

PaymentStockProvider(FiscalClient, String)

Constructor.

Declaration

```
public PaymentStockProvider(FiscalClient fiscalClient, string storageRootPath = "")
```

Parameters

TYPE	NAME	DESCRIPTION
FiscalClient	fiscalClient	The fiscal client for this payment stock provider.
System.String	storageRootPath	The root path for the payment stock provider files. If empty GetStaticStandardLocalClientDataPath(Guid) is used.

Exceptions

TYPE	CONDITION
------	-----------

TYPE	CONDITION
System.ArgumentNullException	Thrown if parameter <code>fiscalClient</code> is set to null.

Fields

`_fiscalClient`

Declaration

```
protected FiscalClient _fiscalClient
```

Field Value

TYPE	DESCRIPTION
FiscalClient	

`_openTransactions`

Declaration

```
protected List<Guid> _openTransactions
```

Field Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.Guid>	

`_storageRootPath`

Declaration

```
protected string _storageRootPath
```

Field Value

TYPE	DESCRIPTION
System.String	

`_supportedDocumentTypes`

Declaration

```
protected List<DocumentType> _supportedDocumentTypes
```

Field Value

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentType >	

Properties

`ProcessingDocumentTypes`

Returns all document types which are processed by this interface.

Declaration

```
public IReadOnlyList<DocumentType> ProcessingDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

SupportedDocumentTypes

Returns all supported document types by this fiscal module.

Declaration

```
public IReadOnlyList<DocumentType> SupportedDocumentTypes { get; }
```

Property Value

TYPE	DESCRIPTION
System.Collections.Generic.IReadOnlyList< DocumentType >	

Methods

BeginTransaction(Nullable<Guid>)

Starts a new transaction on this interface.

Declaration

```
public void BeginTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

Exceptions

TYPE	CONDITION
System.Transactions.TransactionException	Thrown if a new new transaction is started and an old one is not finished.
System.ArgumentNullException	Thrown if parameter <code>transactionId</code> is set to null or System.Guid.Empty.

CommitTransaction(Nullable<Guid>)

Commits the transaction on this interface.

Declaration

```
public void CommitTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

Exceptions

TYPE	CONDITION
System.Transactions.TransactionInDoubtException	Thrown if no transaction file exists (transaction was not started).
System.ArgumentNullException	Thrown if parameter <code>transactionId</code> is set to null or System.Guid.Empty.

Dispose()

Declaration

```
public void Dispose()
```

GetActualStock(Guid)

Returns the actual stock for the requested client.

Declaration

```
public List<Payment> GetActualStock(Guid uniqueClientId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The unique client id (UniqueClientId) of the client where the payment stock is requested.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< Payment >	The actual stock for the requested client; Null if no stock is stored until now.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if parameter <code>uniqueClientId</code> is set to null.

ReadClientStockfile(Guid, Boolean)

Reads the stock file of the given client and returns the payment stock info.

Declaration

```
protected PaymentStockInfo ReadClientStockfile(Guid uniqueClientId, bool isTransaction)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Guid	uniqueClientId	The client id for the file where the payment stock info is requested.
System.Boolean	isTransaction	True if the transaction file has to be read; otherwise false.

Returns

TYPE	DESCRIPTION
PaymentStockInfo	The payment stock info of the file.

Remarks

[PaymentStockInfo](#) is secured through sha256 hash. When reading file this hash is checked and if failed a `System.FormatException` is raised.

Exceptions

TYPE	CONDITION
System.FormatException	Thrown if the hash check when reading the file fails.

ReadStockfile(Boolean)

Reads the stock file and returns the payment stock info.

Declaration

```
protected PaymentStockInfo ReadStockfile(bool isTransaction)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	isTransaction	True if the transaction file has to be read; otherwise false.

Returns

TYPE	DESCRIPTION
PaymentStockInfo	The payment stock info of the file.

Remarks

[PaymentStockInfo](#) is secured through sha256 hash. When reading file this hash is checked and if failed a `System.FormatException` is raised.

Exceptions

TYPE	CONDITION
System.FormatException	Thrown if the hash check when reading the file fails.

RollbackTransaction(Nullable<Guid>)

Roll the transaction on this interface back.

Declaration

```
public void RollbackTransaction(Guid? transactionId)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if parameter <code>transactionId</code> is set to null or System.Guid.Empty.

StoreDocument(Nullable<Guid>, Document)

Stores a document with this provider.

Declaration

```
public void StoreDocument(Guid? transactionId, Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Nullable<System.Guid>	transactionId	The id for the new transaction. The transactionId is the DocumentGuid of the Document .
Document	document	The document to store.

Exceptions

TYPE	CONDITION
System.Data.ConstraintException	Thrown if the currency code of an existing payment differs from an existing payment in stock file.

TYPE	CONDITION
System.IO.InvalidDataException	Thrown if the loaded data of the stock file contains another client id.
System.ArgumentNullException	Thrown if parameter <code>transactionId</code> is set to null or System.Guid.Empty or if parameter <code>document</code> is set to null.

ValidateDocument(Document)

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

Declaration

```
public List<DocumentValidationError> ValidateDocument(Document document)
```

Parameters

TYPE	NAME	DESCRIPTION
Document	document	The document to validate.

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List< DocumentValidationError >	The list of document validation errors.

Exceptions

TYPE	CONDITION
System.ArgumentNullException	Thrown if parameter <code>document</code> is set to null.

WriteStockfile(PaymentStockInfo, Boolean)

Write the given payment stock info to the stock file.

Declaration

```
protected void WriteStockfile(PaymentStockInfo paymentStockInfo, bool isTransaction)
```

Parameters

TYPE	NAME	DESCRIPTION
PaymentStockInfo	paymentStockInfo	The PaymentStockInfo to write to the file.
System.Boolean	isTransaction	True if the transaction file should be written; otherwise false.

Implements

IStorageProvider

IDocumentInterface

System.IDisposable

Namespace RetailForce.Fiscalisation.Swagger

Classes

[SwaggerExcludeAttribute](#)

Class SwaggerExcludeAttribute

Inheritance

System.Object
System.Attribute
SwaggerExcludeAttribute

Inherited Members

System.Attribute.Equals(System.Object)
System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.Assembly, System.Type, System.Boolean)
System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.MemberInfo, System.Type, System.Boolean)
System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.Module, System.Type, System.Boolean)
System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type)
System.Attribute.GetCustomAttribute(System.Reflection.ParameterInfo, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.Assembly, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.MemberInfo, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Module)
System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.Module, System.Type, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Boolean)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type)
System.Attribute.GetCustomAttributes(System.Reflection.ParameterInfo, System.Type, System.Boolean)
System.Attribute.GetHashCode()
System.Attribute.IsDefaultAttribute()
System.Attribute.IsDefined(System.Reflection.Assembly, System.Type)
System.Attribute.IsDefined(System.Reflection.Assembly, System.Type, System.Boolean)
System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type)
System.Attribute.IsDefined(System.Reflection.MemberInfo, System.Type, System.Boolean)
System.Attribute.IsDefined(System.Reflection.Module, System.Type)
System.Attribute.IsDefined(System.Reflection.Module, System.Type, System.Boolean)
System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type)
System.Attribute.IsDefined(System.Reflection.ParameterInfo, System.Type, System.Boolean)
System.Attribute.Match(System.Object)
System.Attribute.TypeId
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: [RetailForce.Fiscalisation.Swagger](#)

Assembly: RetailForce.Fiscalisation.dll

Syntax

```
[AttributeUsage(AttributeTargets.Property)]  
public class SwaggerExcludeAttribute : Attribute
```