

Interface Description

ServiceFr_SOAP



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Module Details

1. ServiceFr

1.1. General Remarks

The webservice methods uses message classes as parameter value. All these classes are derived from the base class `AisService._40.Messages.BaseMsg` and contains properties for the data which are necessary for calling the web service method. To calling a method create an instance of their message class, set the necessary data to the message class properties and pass it throw the web service method.

All methods require the "**CompanyName**", "**UserName**" and "**Password**" properties, containing the application-specific access parameters.

Some methods require the `LanguageCode` properties, a 2-letter message internationalization language code as defined by ISO 639-1. All text messages will be returned in the defined language. Only language codes returned by `GetLanguages(...)` in the TecRMI common webservice are valid.

Some methods require the `CountryCode` properties, a 2-letter data internationalization country code as defined by ISO 3166-1. All application data will be returned as it is available for this country. Only county codes returned by `GetCountries(...)` in the TecRMI common webservice are valid.

Some methods require the `ConsumerId` property. To this a unique value, which identifiers the customers users which uses the TecRMI webservice by the customers application has to be passed. The length of the `ConsumerId` property value is restricted to 50 characters and is used for access control and billing.

All methods send an error message if an exception occurred or the access to the web service was denied.

All methods that are documented to return a list return an array instead.

1.2. Prerequisites

Some of the html documents could contain graphics in the .SVG format. So the system requirements for viewing html documents are: MS Internet Explorer v. 9.0 and higher

Mozilla Firefox 15 and higher

1.3. Web service URL's

web service URL:

<https://rmi-services.tecalliance.net/soap/ServiceFr.asmx>

URL of WSDL file:

<https://rmi-services.tecalliance.net/soap/ServiceFr.asmx?wsdl>

1.4. Sequence Of Calls

First of all, you should check whether there is fuse and relays data available for the currently selected vehicle. To perform this check, you simply call `GetVehicleHasFr` which returns a boolean value indicating whether there is

adjustment data (**true**) or not (**false**).

Subsequent you call [GetFrComponentsForType](#) to determine a list of components which has fuses and relays data for the given vehicle. For the chosen component you call the method [GetFrBoxOverviewHtml](#) to get a HTML overview document over the possible location of the fuse and relays boxes. The fuse and relays tree for one of this boxed is returned by the [GetFrBoxDetailList](#) method. Finally you call the method [GetFrBoxDetailHtml](#) to get the detail view in HTML.

1.5. Summary

Class ServiceFr provides the web service methods for the part fuse and relays.

1.6. Detailed Module Documentation

1.6.1. Methods

- **bool** [GetVehicleHasFr](#)([GetVehicleHasFrMsg](#) input)

Checks whether the selected vehicle has fuse and relays data.

Parameter

input - Instance of the message class [GetFrComponentsForTypeMsg](#).

Returns

true - if fuse and relays data exists; otherwise false.

Exception

[System.Web.Services.Protocols.SoapException](#) - Thrown when a SOAP error condition occurs.

- **List<[FrComponentType](#)>** [GetFrComponentsForType](#)([GetFrComponentsForTypeMsg](#) input)

Delivers a country specific list of components which contains fuse and relays data for the given vehicle.

Parameter

input - Instance of the message class [GetFrComponentsForTypeMsg](#).

Returns

A collection of fuse and relays components.

Exception

[System.Web.Services.Protocols.SoapException](#) - Thrown when a SOAP error condition occurs.

- **string** [GetFrBoxOverviewHtml](#)([GetFrBoxOverviewHtmlMsg](#) input)

Delivers a country specific string which contains HTML-lines from which an HTML-file for the box overview graphic can be generated.

Parameter

input - Instance of the message class GetFrBoxOverviewHtmlMsg.

Returns

A string which contains HTML-lines from which an HTML-file for the box overview graphic can be generated.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- FrBoxItemMp GetFrBoxDetailList(GetFrBoxDetailListMsg input)

Delivers a country specific object to generate a fuse and relays tree for the given component in the selected language.

Parameter

input - Instance of the message class GetFrBoxDetailListMsg.

Returns

The topic tree for the fuse and relays manual.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- string GetFrBoxDetailHtml(GetFrBoxDetailHtmlMsg input)

Delivers a country specific string which contains HTML-lines from which an HTML-file for the box detail manual can be generated.

Parameter

input - Instance of the message class GetFrBoxDetailHtmlMsg.

Returns

A string which contains HTML-lines from which an HTML-file for the box detail manual can be generated.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<AdItemMp> GetFrLinkedTechnicalData(GetFrLinkedTechnicalDataMsg input)

Gets the technical data which are linked to this fuse and relays document.

Parameter

input - Instance of the message class GetFrLinkedTechnicalDataMsg.

Returns

A collection of linked technical data.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<TmlItemMp> GetFrLinkedTechnicalManuals(GetFrLinkedTechnicalManualsMsg input)

Gets the technical manuals which are linked to this fuse and relays document.

Parameter

input - Instance of the message class GetFrLinkedTechnicalManualsMsg.

Returns

A collection of linked technical manuals.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<LtItemMpKor> GetFrLinkedLabourTimes(GetFrLinkedLabourTimesMsg input)

Gets the labour times work positions which are linked to this fuse and relays document.

Parameter

input - Instance of the message class GetFrLinkedLabourTimesMsg.

Returns

A collection of linked labour times work positions.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<WdItemMp> GetFrLinkedWiringDiagrams(GetFrLinkedWiringDiagramsMsg input)

Gets the wiring diagrams which are linked to this fuse and relays document.

Parameter

input - Instance of the message class GetFrLinkedWiringDiagramsMsg.

Returns

A collection of linked wiring diagrams.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<DiItemMp> GetFrLinkedDiagnostics(GetFrLinkedDiagnosticsMsg input)

Gets the diagnostic manuals which are linked to this fuse and relays document.

Parameter

input - Instance of the message class GetFrLinkedDiagnosticsMsg.

Returns

A collection of linked diagnostics manuals.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<PpltemMp> GetFrLinkedPartPosition(GetFrLinkedPartPositionMsg input)

Gets the part position manuals which are linked to this fuse and relays document.

Parameter

input - Instance of the message class GetFrLinkedPartPositionMsg.

Returns

A collection of linked part position manuals.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<String> GetFrBoxOverviewImageName(GetFrBoxOverviewImageNameMsg input)

Delivers a collection of strings which contain the image names necessary for the box overview graphic.

Parameter

input - Instance of the message class GetFrBoxOverviewImageNameMsg.

Returns

The image names for the box overview manual.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<String> GetFrBoxDetailImageNames(GetFrBoxDetailImageNamesMsg input)

Delivers a collection of strings which contain the image names necessary for the box detail manual.

Parameter

input - Instance of the message class GetFrBoxDetailImageNamesMsg.

Returns

The image names for the box detail manual.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- Byte[] GetFrImage(GetFrImageMsg input)

Returns a stream which contains the requested fuse and relays image.

Parameter

input - Instance of the message class GetFrImageMsg.

Returns

A byte array which contains the requested image.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<FrMainGroup> GetFrBoxConfigurations(GetFrBoxConfigurationsMsg input)

Gets an alternative topic tree for the module fuse and relays with search functionality.

Parameter

input - Instance of the message class GetFrComponentsForTypeMsg.

Returns

An enumeration over the main groups of the topic tree which includes an under enumeration of their sub groups and Items.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

Object Model

1. AdItemMp

1.1. Summary

Represents an item mount position of the adjustment data topic tree. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

1.2. Detailed Module Documentation

1.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- **int ItemMplId**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMplImageName**

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **int SortOrder**

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

Property-Value

The sort order.

2. DiltemMp

2.1. Summary

Represents an item mount position for the diagnose topic tree. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

2.2. Detailed Module Documentation

2.2.1. Properties

- **Nullable<Int32> ComponentTypeId**

Gets or sets the identifier of the component type.

Property-Value

The component type id.

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMplImageName**

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- List<DiValue> Manuals

Gets or sets a collection of manuals which belongs to the topic item mount position.

Property-Value

The manuals.

- int SortOrder

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

Property-Value

The sort order.

- Nullable<Int32> SystemQualColId

Gets or sets the identifier of the system qualifier collection.

Property-Value

The system qualifier collection id.

- string SystemQualColText

Gets or sets the text of the system qualifier collection.

Property-Value

The system qualifier collection text.

3. DiValue

3.1. Summary

Represents a topic manual in the diagnose part of the AuDaLib. Manuals can be found in the modules Sos, technical manuals (Tm) and wiring diagram (Wd). The purpose of the class **DiValue** is to provide a base for these modules. A manual belongs to an item mount position. SOS, TM and WD. A manual belongs to an item mount position.

3.2. Detailed Module Documentation

3.2.1. Properties

- int QualColId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text the qualifier collection.

Property-Value

The qualifier collection text.

- Nullable<Int32> SystemQualColId

Gets or sets the identifier of the system qualifier collection.

Property-Value

The system qualifier collection id.

- string SystemQualColText

Gets or sets the text of the system qualifier collection.

Property-Value

The system qualifier collection text.

4. FrBoxConfiguration

4.1. Summary

Represents a specific configuration of a fuse and relays box.

4.2. Detailed Module Documentation

4.2.1. Properties

- List<QualCol> BoxBuildPeriodQualCols

Gets or sets a list of qualifier collections which represents the possible years where this component has been build.

Property-Value

A collection of build year qualifier collections.

- int BoxConfigurationId

Gets or sets the identifier of the box configuration mapping.

Property-Value

The the box configuration mapping id.

- int BuildPeriodQualColId

Gets or sets the identifier of the build period qual col.

Property-Value

The identifier of the build period qual col.

- string BuildPeriodQualColText

Gets or sets the build period qual col text.

Property-Value

The build period qual col text.

- int QualColId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

5. FrBoxItemMp

5.1. Summary

Represents configuration settings of a fuse and relays box.

5.2. Detailed Module Documentation

5.2.1. Properties

- List<[FrBoxConfiguration](#)> BoxConfigurations

Gets or sets a list of different fuse und relays box configurations.

Property-Value

A collection of fuse and relays box configurations.

- bool InfoDataExists

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- bool IsLocked

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- int ItemMplId

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMplImageName

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **int SortOrder**

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

Property-Value

The sort order.

6. FrComponentType

6.1. Summary

Represents a component type in the fuse and relays module.

6.2. Detailed Module Documentation

6.2.1. Properties

- **int ComponentTypeId**

Gets or sets the type id of this component.

Property-Value

The component type id.

- **string ComponentTypeName**

Gets or sets the name of the component type.

Property-Value

The the component type name.

- **string TypeOverviewImage**

Gets or sets the overview image of the type where the position of the fuse and relays boxes are marked.

Property-Value

The type overview image.

7. FrMainGroup

7.1. Summary

Represents a main group for fuse and relays. In the topic tree hierarchy, main groups are on the topmost level. Each main group may have several sub groups as children.

7.2. Detailed Module Documentation

7.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this main group.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **int MainGroupId**

Gets or sets the id of the main group.

Property-Value

The main group id.

- **string MainGroupImage**

Gets or sets the image of the main group.

Property-Value

The main group image.

- **string MainGroupName**

Gets or sets the name of the main group.

Property-Value

The the main group name.

- **int SortOrder**

Gets or sets the order number of this main group. A collection of main groups will be sorted against this number.

Property-Value

The sort order.

- **List<FrSubGroup> SubGroups**

Gets or sets a collection of sub groups which belongs to this main group.

Property-Value

The sub groups.

8. FrSubGroup

8.1. Summary

Represents a sub group for fuse and relays. In the topic tree hierarchy, sub groups are children of main groups. The same sub group might also be a child of several different main groups making the topic tree rather a directed acyclic graph than a tree. Each sub group may have several item mount positions as children.

8.2. Detailed Module Documentation

8.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this sub group.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **List<FrBoxItemMp> ItemMps**

Gets or sets a collection of item mount positions which belongs to this sub group.

Property-Value

The item mount positions.

- **int SortOrder**

Gets or sets the order number of this sub group. A collection of sub groups will be sorted against this number.

Property-Value

The sort order.

- **int SubGroupId**

Gets or sets the id of the sub group.

Property-Value

The sub group id.

- **string SubGroupImage**

Gets or sets the sub group image.

Property-Value

The sub group image.

- **string SubGroupName**

Gets or sets the name of the sub group.

Property-Value

The sub group name.

9. GetFrBoxConfigurationsMsg

9.1. Summary

Class [AisService._40.Messages.Fr.GetFrBoxConfigurationsMsg](#) contains the properties which are necessary to call the web service method [GetFrBoxConfigurations](#) .

9.2. See also

[ServiceFr.GetFrBoxConfigurations\(...\)](#)

9.3. Detailed Module Documentation

9.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **int ComponentTypeId**

Gets or sets the identifier of the component type.

Property-Value

The identifier of the component type.

- **string CountryCode**

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- **string LanguageCode**

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string SearchText**

Gets or sets the search text.

A search is only performed if this search string is set to a value unequal NULL.

Property-Value

The search text.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int Typeld

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

10. GetFrBoxDetailHtmlMsg

10.1. Summary

Class [AisService._40.Messages.Fr.GetFrBoxDetailHtmlMsg](#) contains the properties which are necessary to call the web service method [GetFrBoxDetailHtml](#) .

10.2. See also

[ServiceFr.GetFrBoxDetailHtmlMsg\(...\)](#)

10.3. Detailed Module Documentation

10.3.1. Properties

- int BoxConfigurationMappingId

Gets or sets the identifier of the box configuration mapping.

Property-Value

The identifier of the box configuration mapping.

- int BuildPeriodQualCollId

Gets or sets the identifier of the build period qualifier collection.

Property-Value

The identifier of the build period qualifier collection.

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- int ComponentTypeld

Gets or sets the component type id.

Property-Value

The component type id.

- string ConsumerId

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string LinkURL

Gets or sets the link url. The actual link information is going to be added at the end of this url. It is used where documents contains links to other and are shown in custom application.

Property-Value

The link url.

Example

```
LinkURL = "http://localhost/" // -> Generated link in documents:  
http://localhost/12345.;
```

- string Password

Gets or sets the password.

Property-Value

The password.

- bool PrintView

Determines whether a document for printing or the normal document should be created.

Property-Value

true if the HTML file is prepare for printing; otherwise, false.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- **int TypeId**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

11. GetFrBoxDetailImageNamesMsg

11.1. Summary

Class [AisService._40.Messages.Fr.GetFrBoxDetailImageNamesMsg](#) contains the properties which are necessary to call the web service method [GetFrBoxDetailImageNames](#) .

11.2. See also

[ServiceFr.GetFrBoxDetailImageNamesMsg\(...\)](#)

11.3. Detailed Module Documentation

11.3.1. Properties

- **int BoxConfigurationMappingId**

Gets or sets the identifier of the box configuration mapping.

Property-Value

The identifier of the box configuration mapping.

- **int BuildYearQualCollId**

Gets or sets the identifier of the build year qualifier collection.

Property-Value

The identifier of the build year qualifier collection.

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **int ComponentTypeId**

Gets or sets the identifier of the component type.

Property-Value

The identifier of the component type.

- **string CountryCode**

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- **string LanguageCode**

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **int TypeId**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

12. GetFrBoxDetailListMsg

12.1. Summary

Class [AisService._40.Messages.Fr.GetFrBoxDetailListMsg](#) contains the properties which are necessary to call the web service method [GetFrBoxDetailList](#) .

12.2. See also

[ServiceFr.GetFrBoxDetailListMsg\(...\)](#)

12.3. Detailed Module Documentation

12.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- int ComponentTypeId

Gets or sets the identifier of the component type.

Property-Value

The component type id.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- int ItemMpld

Gets or sets the TecRMI item mount position id.

The id can be fetched by using the topic tree methods from the respective modules.

Property-Value

The item mount position id.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int Typeld

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

13. GetFrBoxOverviewHtmlMsg

13.1. Summary

Class [AisService._40.Messages.Fr.GetFrBoxOverviewHtmlMsg](#) contains the properties which are

necessary to call the web service method [GetFrBoxOverviewHtml](#) .

13.2. See also

[ServiceFr.GetFrBoxOverviewHtmlMsg\(...\)](#)

13.3. Detailed Module Documentation

13.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **int ComponentTypeId**

Gets or sets the id of the component type.

Property-Value

The component type id.

- **string ConsumerId**

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- **string CountryCode**

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- **string LanguageCode**

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- **string LinkURL**

Gets or sets the link url. The actual link information is going to be added at the end of this url. It is used where documents contains links to other and are shown in custom application.

Property-Value

The link url.

Example

```
LinkURL = "http://localhost/" // -> Generated link in documents:
```

`http://localhost/12345.;`

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **int TypeId**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

14. GetFrBoxOverviewImageNameMsg

14.1. Summary

Class [AisService._40.Messages.Fr.GetFrBoxOverviewImageNameMsg](#) contains the properties which are necessary to call the web service method [GetFrBoxOverviewImageName](#) .

14.2. See also

[ServiceFr.GetFrBoxOverviewImageNameMsg\(...\)](#)

14.3. Detailed Module Documentation

14.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **int ComponentTypeId**

Gets or sets the id of the component type.

Property-Value

The component type id.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int TypeId

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

15. GetFrComponentsForTypeMsg

15.1. Summary

Class [AisService._40.Messages.Fr.GetFrComponentsForTypeMsg](#) contains the properties which are necessary to call the web service method [GetFrComponentsForType](#) .

15.2. See also

[ServiceFr.GetFrComponentsForTypeMsg\(...\)](#)

15.3. Detailed Module Documentation

15.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int TypeId

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

16. GetFrImageMsg

16.1. Summary

Class [AisService._40.Messages.Fr.GetFrImageMsg](#) contains the properties which are necessary to call the web service methods [GetFrImage](#) .

16.2. See also

[ServiceFr.GetFrImageMsg\(...\)](#)

16.3. Detailed Module Documentation

16.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string ImageName

Gets or sets the name of the requested image.

Property-Value

The name of the image.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

17. GetFrLinkedDiagnosticsMsg

17.1. Summary

Class [AisService._40.Messages.Fr.GetFrLinkedDiagnosticsMsg](#) contains the properties which are necessary to call the web service method [GetFrLinkedDiagnosticsMsg](#) .

17.2. See also

[ServiceFr.GetFrLinkedDiagnosticsMsg\(...\)](#)

17.3. Detailed Module Documentation

17.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- Nullable<Int32> diComponentTypeld

Gets or sets the identifier of the di component type.

Property-Value

The identifier of the di component type.

- **int ItemMpld**

Gets or sets the TecRMI item mount position id.

The id can be fetched by using the topic tree methods from the respective modules.

Property-Value

The item mount position id.

- **string LanguageCode**

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **int Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

18. GetFrLinkedLabourTimesMsg

18.1. Summary

Class [AisService._40.Messages.Fr.GetFrLinkedLabourTimesMsg](#) contains the properties which are necessary to call the web service method [GetFrLinkedLabourTimes](#) .

18.2. See also

[ServiceFr.GetFrLinkedLabourTimes\(...\)](#)

18.3. Detailed Module Documentation

18.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string CountryCode**

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- **int ItemMpld**

Gets or sets the TecRMI item mount position id.

The id can be fetched by using the topic tree methods from the respective modules.

Property-Value

The item mount position id.

- **string LanguageCode**

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- **int ItBodyQualColld**

Gets or sets the body qualifier id for labour times work positions which defines the vehicle construction.

The id can be fetched by using the equivalent methods from the respective modules.

Property-Value

The body qualifier id.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **int Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt

web service.

Property-Value

The TecRMI type id.

19. GetFrLinkedPartPositionMsg

19.1. Summary

Class [AisService._40.Messages.Fr.GetFrLinkedPartPositionMsg](#) contains the properties which are necessary to call the web service method [GetFrLinkedPartPosition](#) .

19.2. See also

[ServiceFr.GetFrLinkedPartPositionMsg\(...\)](#)

19.3. Detailed Module Documentation

19.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string CountryCode**

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- **int ItemMpld**

Gets or sets the identifier of the item mp.

Property-Value

The identifier of the item mp.

- **string LanguageCode**

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int Typeld

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

20. GetFrLinkedTechnicalDataMsg

20.1. Summary

Class [AisService._40.Messages.Fr.GetFrLinkedTechnicalDataMsg](#) contains the properties which are necessary to call the web service method [GetFrLinkedTechnicalData](#) .

20.2. See also

[ServiceFr.GetFrLinkedTechnicalDataMsg\(...\)](#)

20.3. Detailed Module Documentation

20.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- int itemMpld

Gets or sets the identifier of the item mp.

Property-Value

The identifier of the item mp.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int TypeId

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

21. GetFrLinkedTechnicalManualsMsg

21.1. Summary

Class [AisService._40.Messages.Fr.GetFrLinkedTechnicalManualsMsg](#) contains the properties which are necessary to call the web service method [GetFrLinkedTechnicalManuals](#) .

21.2. See also

[ServiceFr.GetFrLinkedTechnicalManualsMsg\(...\)](#)

21.3. Detailed Module Documentation

21.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- int itemMpld

Gets or sets the identifier of the item mp.

Property-Value

The identifier of the item mp.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int TypedId

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

22. GetFrLinkedWiringDiagramsMsg

22.1. Summary

Class [AisService._40.Messages.Fr.GetFrLinkedWiringDiagramsMsg](#) contains the properties which are necessary to call the web service method [GetFrLinkedWiringDiagrams](#) .

22.2. See also

[ServiceFr.GetFrLinkedWiringDiagramsMsg\(...\)](#)

22.3. Detailed Module Documentation

22.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string CountryCode

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- int itemMpld

Gets or sets the identifier of the item mp.

Property-Value

The identifier of the item mp.

- string LanguageCode

Gets or sets the 2-letter international language code as defined by ISO 639-1.

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int Typeld

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

23. GetVehicleHasFrMsg

23.1. Summary

Class [AisService._40.Messages.Fr.GetVehicleHasFrMsg](#) contains the properties which are necessary to call the web service method [GetVehicleHasFr](#) .

23.2. See also

[ServiceFr.GetVehicleHasFrMsg\(...\)](#)

23.3. Detailed Module Documentation

23.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string CountryCode**

Gets or sets the 2-letter international country code as defined by ISO 3166-1.

Property-Value

The ISO country code.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **int TypeId**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the ServiceVt web service.

Property-Value

The TecRMI type id.

24. LtlItemMpKor

24.1. Summary

Represents an item mount position along with a kind of repair for labour times. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

24.2. Detailed Module Documentation

24.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- bool IsLocked

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- int ItemMpld

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMplImageName

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- int KorId

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- string KorImageName

Gets or sets the image name of the kind of repair.

Property-Value

The image name of the kind of repair.

- string KorText

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- int SortOrder

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

Property-Value

The sort order.

25. PpltemMp

25.1. Summary

Represents an item mount position for the mount position manual topic tree. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

25.2. Detailed Module Documentation

25.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- **int ItemMplId**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMplImageName**

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **List<[PpManual](#)> Manuals**

Gets or sets a collection of manuals which belongs to the topic item mount position.

Property-Value

The manuals.

- int SortOrder

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

Property-Value

The sort order.

26. PpManual

26.1. Summary

Represents a mount position manual in the field of mount position. A manual belongs to an item mount position.

26.2. Detailed Module Documentation

26.2.1. Properties

- int ManualId

Gets or sets the id of the manual.

Property-Value

The manual id.

- int QualColId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the qualifier collection text.

Property-Value

The qualifier collection text.

27. QualCol

27.1. Summary

Class **QualCol** represents a qualifier collection. The qualifier collection delivers a further differentiation for an item.

27.2. Detailed Module Documentation

27.2.1. Properties

- int QualCollId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

28. TmlItemMp

28.1. Summary

Represents an item mount position for the technical manual topic tree. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

28.2. Detailed Module Documentation

28.2.1. Properties

- bool InfoDataExists

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- bool IsLocked

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- int ItemMplId

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMplImageName

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- List<TmManual> Manuals

Gets or sets a collection of manuals which belongs to the topic item mount position.

Property-Value

The manuals.

- int SortOrder

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

Property-Value

The sort order.

29. TmManual

29.1. Summary

Represents a technical manual in the field of technical manual. A manual belongs to an item mount position.

29.2. Detailed Module Documentation

29.2.1. Properties

- int ManualId

Gets or sets the id of the manual.

Property-Value

The manual id.

- int QualColId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the qualifier collection text.

Property-Value

The qualifier collection text.

30. WdItemMp

30.1. Summary

Class **WdItemMp** represents an item mount position for wiring data. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

30.2. Detailed Module Documentation

30.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

Property-Value

true if this item mount position is locked; otherwise, false.

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMplImageName**

Gets or sets the name of the item mount position image.

Property-Value

The the item mount position image name.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **List<WdManual> Manuals**

Gets or sets a collection of manuals which belongs to the topic item mount position.

Property-Value

The manuals.

- **int SortOrder**

Gets or sets the order number of this topic item mount position. A collection

of topic item mount position will be sorted against this number.

Property-Value

The sort order.

31. WdManual

31.1. Summary

Class **WdManual** represents a manual for wiring data. A manual belongs to an item mount position.

31.2. Detailed Module Documentation

31.2.1. Properties

- **int ManualId**

Gets or sets the id of the manual.

Property-Value

The manual id.

- **int QualColId**

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- **string QualColText**

Gets or sets the qualifier collection text.

Property-Value

The qualifier collection text.