

# Interface Description

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ServiceFr\_SOAP



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TecAlliance GmbH

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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 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 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 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.

## 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 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.

## 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 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<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.