Interface Description

ServiceCWD_SOAP

Contents

Module Details

1. ServiceCWD

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.

Note: Static wiring diagrams are not available through Manual-Methods anymore but through WdManual-Methods

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/ServiceCWd.asmx

URL of WSDL file:

https://rmi-services.tecalliance.net/soap/ServiceCWd.asmx?wsdl

1.4. Sequence Of Calls

First, check if there are any wiring diagrams (wd) available for your vehicle. To do so, call GetVehicleHasCwd passing it your type id. To get all the wd information for one vehicle call GetCwdManualList , which will provide a list with your requested information. To get a single manual in html format, call GetCwdManualHtml . If a grafical selection based on HTML is planed to implement first call the method GetCwdMainGroupHtml to fetch the HTML document for the main group graphics. The HTML document for the subgroups can be retrieved by calling the web service method GetCwdSubGroupHtml .

1.5. Summary

Class ServiceCWD provides the web service methods for the part comfort wiring data.

1.6. Detailed Module Documentation

1.6.1. Methods

- **bool GetVehicleHasCwd(GetVehicleHasCwdMsg input)**

Checks whether comfort wiring data exists for the given TecRMI type id.

Parameter

input - Instance of the message class GetVehicleHasCwdMsg.

Returns

true - if comfort wiring data exists; otherwise false.

- **List<CwdMainGroup> GetCwdManualList(GetCwdManualListMsg input)**

Delivers a country specific list to generate a manual tree for the TecRMI type id in the selected language. Use method GetCwdManualListTextFiltered to filter by text. Use method GetCwdManualListGenArtFiltered to filter by generic articles.

Parameter

input - Instance of the message class GetCwdManualListMsg.

Returns

The topic tree for the part comfort wiring data.

- **List<CwdMainGroup> GetCwdManualListGenArtFiltered(GetCwdManualListGenArtFilteredMsg input)**

Delivers a country specific list to generate a manual tree for the TecRMI type id in the selected language filtered by generic article.

Parameter

input - Instance of the message class GetCwdManualListGenArtFilteredMsg.

Returns

The topic tree for the part comfort wiring data.

- **List<CwdMainGroup> GetCwdManualListTextFiltered(GetCwdManualListTextFilteredMsg input)**

Delivers a country specific list to generate a manual tree for the TecRMI type id in the selected language filtered by text.

Parameter

input - Instance of the message class GetCwdManualListTextFilteredMsg.

Returns

The topic tree for the part comfort wiring data.

- **string GetCwdMainGroupHtml(GetCwdMainGroupHtmlMsg input)**

Delivers a string with country specific content which contains lines of HTML from which an HTML file can be generated.

Remarks

Link elements (hrefs) in the HTML code are enclosed in 'Þ' (U+00DE LATIN CAPITAL LETTER THORN) characters and consists of a letter followed by an item mount position id (itemMpId), e. g. Þw8683Þ. Those can be evaluated on the web server before the HTML is sent to the client, or handled in an embedded browser control using the relevant navigation events. Following letters where possible: w - indicates a link to 0..* other comfort wiring diagram manual(s) followed by an item mount position id (itemMpId). To resolve the itemMpId and typeId combination to a set of manual ids call GetCwdLinkedComfortWiringDiagrams.
f - not used at the moment.
d - not used at the moment.

Parameter

input - Instance of the message class GetCwdMainGroupHtmlMsg.

Returns

A string which contains the whole HTML file.

- **string GetCwdSubGroupHtml(GetCwdSubGroupHtmlMsg input)**

Delivers a country specific string which contains HTML lines from which an HTML file can be generated.

Remarks

Link elements (hrefs) in the HTML code are enclosed in 'Þ' (U+00DE LATIN CAPITAL LETTER THORN) characters and consists of a letter followed by an item mount position id (itemMpId), e. g. Þw8683Þ. Those can be evaluated on the web server before the HTML is sent to the client, or handled in an embedded browser control using the relevant navigation events. Following letters where possible: w - indicates a link to 0..* other comfort wiring diagram manual(s) followed by an item mount position id (itemMpId). To resolve the

itemMpId and typeId combination to a set of manual ids call GetCwdLinkedComfortWiringDiagrams.

f - not used at the moment.

d - not used at the moment.

Parameter

input - Instance of the message class GetCwdSubGroupHtmlMsg.

Returns

A string which contains the whole HTML file.

- string GetCwdManualHtml(GetCwdManualHtmlMsg input)

Delivers a country specific string which contains HTML lines of manual.

Remarks

Link elements (hrefs) in the HTML code are enclosed in 'Þ' (U+00DE LATIN CAPITAL LETTER THORN) characters and consists of a letter followed by an item mount position id (itemMpId), e. g. Þw8683Þ. Those can be evaluated on the web server before the HTML is sent to the client, or handled in an embedded browser control using the relevant navigation events. Following letters where possible: w - indicates a link to 0..* other comfort wiring diagram manual(s) followed by an item mount position id (itemMpId). To resolve the itemMpId and typeId combination to a set of manual ids call GetCwdLinkedComfortWiringDiagrams.

f - not used at the moment.

d - not used at the moment.

Parameter

input - Instance of the message class GetCwdManualHtmlMsg.

Returns

A string which contains the whole HTML file.

- CwdItemMp GetCwdLinkedComfortWiringDiagrams(
GetCwdLinkedComfortWiringDiagramsMsg input)

The result of an m-link is an item number. This method checks whether none, one or more manuals are available for the given country.

Parameter

input - Instance of the message class GetCwdLinkedComfortWiringDiagramsMsg.

Returns

The linked comfort wiring diagram manuals.

- List<String> GetImageNamesForCwdManual(GetImageNamesForCwdManualMsg input)

Delivers a collection of strings which contains the image names necessary for the manual.

Parameter

input - Instance of the message class GetImageNamesForCwdManualMsg.

Returns

A collection of strings which contains the image names necessary for the manual.

- ### Byte[] GetCwdImage(GetCwdImageMsg input)

Returns a byte array which contains the requested comfort wiring diagram image.

Parameter

input - Instance of the message class GetCwdImageMsg.

Returns

A array which contains the requested image.

Object Model

1. CwdItemMp

1.1. 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.

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 ItemMpId**

  Gets or sets the id of the item mount position.

  Property-Value

  The item mount position id.

- **string ItemMpImageName**

  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<CwdManual> 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.

2. CwdMainGroup

2.1. Summary

Class **WdMainGroup** represents a main group for wiring data. In the topic tree hierarchy, main groups are on the topmost level. Each main group may have several sub groups as children.

2.2. Detailed Module Documentation

2.2.1. 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<CwdSubGroup> SubGroups**

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

Property-Value

The sub groups.

3. CwdManual

3.1. Summary

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

3.2. Detailed Module Documentation

3.2.1. 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.

4. CwdSubGroup

4.1. Summary

Class **WdSubGroup** represents a sub group for wiring data. 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.

4.2. Detailed Module Documentation

4.2.1. 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<CwdItemMp> 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.

5. GetCwdImageMsg

5.1. Summary

Class AisService._40.Messages.Cwd.GetCwdImageMsg contains the properties which are necessary to call the web service methods GetCwdImage .

5.2. See also

ServiceCwd.GetCwdImage(...)

5.3. Detailed Module Documentation

5.3.1. 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.

6. GetCwdLinkedComfortWiringDiagramsMsg

6.1. Summary

Class AisService._40.Messages.Cwd.GetCwdLinkedComfortWiringDiagramsMsg contains the properties which are necessary to call the web service method GetCwdLinkedComfortWiringDiagrams .

6.2. See also

ServiceCwd.GetCwdLinkedComfortWiringDiagrams(...)

6.3. Detailed Module Documentation

6.3.1. 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.

- int ItemMpId

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 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.

7. GetCwdMainGroupHtmlMsg

7.1. Summary

Class AisService._40.Messages.Cwd.GetCwdMainGroupHtmlMsg contains the properties which are necessary to call web service method GetCwdMainGroupHtml .

7.2. See also

ServiceCwd.GetCwdMainGroupHtml(...)

7.3. Detailed Module Documentation

7.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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/Þ1234Þ;
```

- **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.

8. GetCwdManualHtmlMsg

8.1. Summary

Class AisService._40.Messages.Cwd.GetCwdManualHtmlMsg contains the properties which are necessary to call web service method GetCwdManualHtml .

8.2. See also

ServiceCwd.GetCwdManualHtml(...)

8.3. Detailed Module Documentation

8.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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/Þ1234Þ;
```

- string Password

Gets or sets the password.

Property-Value

The password.

- bool PrintView

Gets or sets a value indicating whether the generated document should be optimised for printing.

Property-Value

true if optimised for printing; otherwise, false.

- int ManualId

Gets or sets the TecRMI manual id.

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

Property-Value

The manual id.

- 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.

9. GetCwdManualListGenArtFilteredMsg

9.1. Summary

Class AisService._40.Messages.Cwd.GetCwdManualListMsg contains the properties which are necessary to call web service method GetCwdManualListGenArtFiltered .

9.2. See also

[ServiceCwd.GetCwdManualListGenArtFiltered(...)](...)

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.

- **string CountryCode**

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

  Property-Value

  The ISO country code.

- **int GenArtNo**

  Filters the CWD manual list by the given generic article number.

  Property-Value

  The generic article number.

- **Nullable<Int32> GenCritNo**

  Filters the CWD manual list by the given generic criterion number (Optional).

  Property-Value

  The generic criterion number.

- **string GenCritValue**

  Filters the CWD manual list by the given generic criterion value (Optional).

  Property-Value

  The generic criterion value.

- **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.

10. GetCwdManualListMsg

10.1. Summary

Class AisService._40.Messages.Cwd.GetCwdManualListMsg contains the properties which are necessary to call web service method GetCwdManualList .

10.2. See also

ServiceCwd.GetCwdManualList(...)

10.3. Detailed Module Documentation

10.3.1. 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.

11. GetCwdManualListTextFilteredMsg

11.1. Summary

Class AisService._40.Messages.Cwd.GetCwdManualListMsg contains the properties which are necessary to call web service method GetCwdManualListTextFiltered .

11.2. See also

ServiceCwd.GetCwdManualListTextFiltered(...)

11.3. Detailed Module Documentation

11.3.1. 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 SearchText**

  Filters the CWD manual list by the given search text value.

  Property-Value

  The search text.

- **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. GetCwdSubGroupHtmlMsg

12.1. Summary

Class AisService._40.Messages.Cwd.GetCwdSubGroupHtmlMsg contains the properties which are necessary to call web service method GetCwdSubGroupHtml .

12.2. See also

ServiceCwd.GetCwdSubGroupHtml(...)

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.

- **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/Þ1234Þ;
```

- string Password

Gets or sets the password.

Property-Value

The password.

- int MaingroupId

Gets or sets the TecRMI topic main group id.

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

Property-Value

The topic main group id.

- 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.

13. GetImageNamesForCwdManualMsg

13.1. Summary
Class AisService._40.Messages.Cwd.GetImageNamesForCwdManualMsg contains the properties which are necessary to call web service methods GetImageNamesForCwdManual .

13.2. See also
ServiceCwd.GetImageNamesForCwdManual(...)

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.

- **string Password**

  Gets or sets the password.
  Property-Value
  The password.

- **int ManualId**

  Gets or sets the TecRMI manual id.
  The id can be fetched by using the topic tree methods from the respective modules.
  Property-Value
  The manual id.

- **string UserName**

  Gets or sets the name of the user.
  Property-Value
  The name of the user.

14. GetVehicleHasCwdMsg

14.1. Summary
Class AisService._40.Messages.Cwd.GetVehicleHasCwdMsg contains the properties which are necessary to call the web service module check method ServiceCwd.GetVehicleHasCwd .

14.2. See also
ServiceCwd.GetVehicleHasCwd(...)

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.

- **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.