Interface Description

ServiceCWD_REST

Contents

Module Details

1. ComfortWiringController

1.1. 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

1.2. Sequence Of Calls

First, check if there are any comfort wiring diagrams (cwd) available for your vehicle. To do so, call VehicleHasComfortWiring passing it your type id. To get all the cwd information for one vehicle call ManualList , which will provide a list with your requested information. To get a single manual in html format, call ManualHtml . If a grafical selection based on HTML is planed to implement first call the method MainGroupHtml 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 SubGroupHtml .

1.3. Summary

Area RestRMI.Areas.Cwd.Controllers.ComfortWiringController provides the web service methods for the part comfort wiring diagrams. Here circuit diagrams on selected vehicle are shown.

1.4. Detailed Module Documentation

1.4.1. Properties

- **HttpActionContext ActionContext**

  No description available

- **HttpConfiguration Configuration**

  No description available

- **HttpControllerContext ControllerContext**

  No description available

- **string Ip**

  Gets the IP.

- **ModelStateDictionary ModelState**

  No description available

- **HttpRequestMessage Request**

  No description available

- **HttpRequestContext RequestContext**

No description available

- UrlHelper Url

No description available

- IPrincipal User

No description available

1.4.2. Methods

- bool VehicleHasComfortWiring(VehicleHasComfortWiringMsg input)

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

Parameter

input - Instance of the message class VehicleHasComfortWiringMsg.

Returns

true - if comfort wiring data exists; otherwise false.

- IEnumerable<CwdMainGroup> ManualList(ManualListMsg input)

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

Parameter

input - Instance of the message class ManualListMsg.

Returns

The topic tree for the part comfort wiring data.

- string MainGroupHtml(MainGroupHtmlMsg 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 LinkedComfortWiringDiagrams.
f - not used at the moment.
d - not used at the moment.

Parameter

input - Instance of the message class MainGroupHtmlMsg.

Returns

A string which contains the whole HTML file.

- string SubGroupHtml(SubGroupHtmlMsg 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 LinkedComfortWiringDiagrams.

f - not used at the moment.

d - not used at the moment.

Parameter

input - Instance of the message class SubGroupHtmlMsg.

Returns

A string which contains the whole HTML file.

- string ManualHtml(ManualHtmlMsg 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 LinkedComfortWiringDiagrams.

f - not used at the moment.

d - not used at the moment.

Parameter

input - Instance of the message class ManualHtmlMsg.

Returns

A string which contains the whole HTML file.

- **CwdItemMp** LinkedComfortWiringDiagrams(**LinkedComfortWiringDiagramsMsg** 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 LinkedComfortWiringDiagramsMsg.

  Returns

  The linked comfort wiring diagram manuals.

- **IEnumerable<String> ImageNamesForComfortWiringManual(** **ImageNamesForComfortWiringManualMsg** input)

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

  Parameter

  input - Instance of the message class ImageNamesForComfortWiringManualMsg.

  Returns

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

- **string Image(**ImageMsg** input)**

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

  Parameter

  input - Instance of the message class ImageMsg.

  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. ImageMsg

5.1. Summary

Class RestRMI.Models.GlobalServiceMessages.ImageMsg contains the properties which are necessary to call the web service methods Image(ImageMsg),

5.2. Detailed Module Documentation

5.2.1. Properties

- **string ImageName**

  Gets or sets the name of the requested image.

  Property-Value

  The name of the image.

6. ImageNamesForComfortWiringManualMsg

6.1. Summary

Class RestRMI.Areas.Cwd.Models.ImageNamesForComfortWiringManualMsg contains the properties which are necessary to call web service methods ImageNamesForComfortWiringManual(ImageNamesForComfortWiringManualMsg).

6.2. Detailed Module Documentation

6.2.1. Properties

- **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.

7. KindOfWorkTimeData

7.1. Summary

Enum **KindOfWorkTimeData** specifies the kinds of work time data. In other words this enumeration determines the unit a work time has.

7.2. Detailed Module Documentation

7.2.1. Enums

- **DecimalWorkHours**

  The work time is displayed in decimal work hours.

- **ManufacturerWorkPositions**

  The work time is displayed in manufacturer work time units.

8. LinkedComfortWiringDiagramsMsg

8.1. Summary

Class RestRMI.Areas.Cwd.Models.LinkedComfortWiringDiagramsMsg contains the properties which are necessary to call the web service methods LinkedComfortWiringDiagrams(LinkedComfortWiringDiagramsMsg).

8.2. Detailed Module Documentation

8.2.1. Properties

- **string CountryCode**

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

Property-Value

The ISO country code.

- **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 LanguageCode**

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

Property-Value

The ISO language code.

- **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. MainGroupHtmlMsg

9.1. Summary

Class RestRMI.Areas.Cwd.Models.MainGroupHtmlMsg contains the properties which are necessary to call web service method MainGroupHtml(MainGroupHtmlMsg).

9.2. Detailed Module Documentation

9.2.1. Properties

- **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;
```

- 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. ManualHtmlMsg

10.1. Summary

Class RestRMI.Areas.Cwd.Models.ManualHtmlMsg contains the properties which are necessary to call web service methods ManualHtml(ManualHtmlMsg).

10.2. Detailed Module Documentation

10.2.1. Properties

- 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;
```

- 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.

- 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 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. ManualListMsg

11.1. Summary

Class RestRMI.Areas.Cwd.Models.ManualListMsg is the base class for a few message classes and contains the properties which are necessary to call web service methods ManualList(ManualListMsg).

11.2. Detailed Module Documentation

11.2.1. Properties

- **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> GenArtNumber**

Gets or sets the generic article number.

      Only if this contains a value and TextSearch is NULL or empty a search after the passed generic article is performed.

Property-Value

The generic article number.

- **Nullable<Int32> GenCritNumber**

Gets or sets the generic criterion number.

Property-Value

The generic criterion number.

- **string GenCritValue**

Gets or sets the generic criterion value.

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 TextSearch**

Gets or sets the text search. If this isn't NULL or empty a search after this value will be performed.

Property-Value

The text search.

- **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. SubGroupHtmlMsg

12.1. Summary

Class RestRMI.Areas.Cwd.Models.SubGroupHtmlMsg contains the properties which are necessary to call web service method SubGroupHtml(SubGroupHtmlMsg).

12.2. Detailed Module Documentation

12.2.1. Properties

- 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;
```

- 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.

- 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. VehicleHasComfortWiringMsg

13.1. Summary

Class RestRMI.Areas.Cwd.Models.VehicleHasComfortWiringMsg contains the properties which are necessary to call the web service module check methods.

13.2. Detailed Module Documentation

13.2.1. Properties

- **string CountryCode**

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

  Property-Value

  The ISO country code.

- **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.