Interface Description

ServiceWd_REST

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TecAlliance GmbH

Contents

Module Details

1. WiringController

ObjectModel

1. DiItemMp
2. DiValue
3. FrBoxConfiguration
4. FrBoxItemMp
5. ImageMsg
6. ImageNamesForWiringManualMsg
7. KindOfLinkTypes
8. KindOfWorkTimeData
9. LinkedDiagnosticsMsg
10. LinkedFuseRelaisMsg
11. LinkedPartPositionMsg
12. LinkedWiringDiagramsMsg
13. MainGroupHtmlMsg
14. ManualHtmlMsg
15. ManualListMsg
16. PpItemMp
17. PpManual
18. QualCol
19. SubGroupHtmlMsg
20. VehicleHasWiringMsg
21. WdItemMp
22. WdMainGroup
23. WdManual
24. WdSubGroup

Module Details

1. WiringController

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 wiring diagrams (wd) available for your vehicle. To do so, call VehicleHasWiring passing it your type id. To get all the wd 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.Wd.Controllers.WiringController provides the web service methods for the part wiring data. 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 VehicleHasWiring(VehicleHasWiringMsg input)**

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

  Parameter

  input - Instance of the message class VehicleHasWdMsg.

  Returns

  true - if wiring data exists; otherwise false.

- **IEnumerable<WdMainGroup> 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 wiring data.

- **string MainGroupHtml(MainGroupHtmlMsg input)**

  Delivers a string with country specific content which contains lines of HTML from which an HTML file for the main group 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 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 LinkedWiringDiagrams.
  d - indicates a link to 0..* to other manual(s). To resolve the link id, link type and typeId combination to a set of manual ids call the methods LinkedPartPosition, LinkedDiagnostics and LinkedFuseRelais.

  Parameter

  input - Instance of the message class GetWdMainGroupHtmlMsg.

Returns

A string which contains lines of HTML.

- **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 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 LinkedWiringDiagrams(LinkedWiringDiagramsMsg).
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 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 LinkedWiringDiagrams(LinkedWiringDiagramsMsg).
d - not used at the moment.

Parameter

input - Instance of the message class ManualHtmlMsg.

Returns

A string which contains the whole HTML file.

- **IEnumerable<String> ImageNamesForWiringManual(ImageNamesForWiringManualMsg input)**

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

Parameter

input - Instance of the message class ImageNamesForWiringManualMsg.

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 wiring diagram image.

Parameter

input - Instance of the message class ImageMsg.

Returns

A array which contains the requested image.

- **WdItemMp LinkedWiringDiagrams(LinkedWiringDiagramsMsg input)**

The result of a w-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 LinkedWiringDiagramsMsg.

Returns

The linked wiring diagram manuals.

- **IEnumerable<FrBoxItemMp> LinkedFuseRelais(LinkedFuseRelaisMsg input)**

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

Parameter

input - Instance of the message class LinkedFuseRelaisMsg.

Returns

The linked fuse and relay manuals.

- **IEnumerable<PpItemMp> LinkedPartPosition(LinkedPartPositionMsg input)**

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

Parameter

input - Instance of the message class LinkedpartPositionMsg.

Returns

The linked part position manuals.

- **List<DiItemMp> LinkedDiagnostics(LinkedDiagnosticsMsg input)**

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

  Parameter

  input - Instance of the message class LinkedDiagnosticsMsg.

  Returns

  The linked diagnostic manuals.

Object Model

1. DiItemMp

1.1. 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.

1.2. Detailed Module Documentation

1.2.1. 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 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<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.

2. DiValue

2.1. 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.

2.2. Detailed Module Documentation

2.2.1. 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.

3. FrBoxConfiguration

3.1. Summary

Represents a specific configuration of a fuse and relays box.

3.2. Detailed Module Documentation

3.2.1. 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.

4. FrBoxItemMp

4.1. Summary

Represents configuration settings of a fuse and relays box.

4.2. Detailed Module Documentation

4.2.1. 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 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.

- **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.

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. ImageNamesForWiringManualMsg

6.1. Summary

Class RestRMI.Areas.Wd.Models.ImageNamesForWiringManualMsg contains the properties which are necessary to call web service methods ImageNamesForWiringManual(ImageNamesForWiringManualMsg).

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. KindOfLinkTypes

7.1. Summary

Enum **KindOfLinkTypes**specifies the kinds of link types.

7.2. Remarks

The AuDaLib includes several methods that return HTML documents as strings. Some of the HTML documents may contain links. The **href**attribute of the links follows a certain scheme: e.g. href="someUrl/Þa1205Þ", where "someUrl/" is the link URL, "Þ" is the link separator, "a" is the kind of link type represented as char and "1205" is the link id. The kind of link type determines how the link id has to be interpreted and, therefore, determines the target module the link is referencing. The enumerators can be casted into chars. Altogether, a link 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.

7.3. Detailed Module Documentation

7.3.1. Enums

- **None**

  No link.

- **AdItemMpId**

  A link to an item mount position from the adjustment data module.

- **FusesBoxItemMpId**

  Unused at the moment.

- **BgItemGroup**

  A link to an item group from the body graphics module.

- **DiagnosisItemId**

  A link to an item from the diagnosis module.

- **ErrorcodeManualId**

  A link to an error code manual.

- **Fuses**

  A link to fuses.

- **HotSpotGenArt**

  A link to a generic article.

- **BgMainGroupId**

  A link to a main group from the body graphics module.

- **TmItemMpId**

  A link to an item mount position from the technical manuals module.

- **DiagnosticContentId**

  Unused at the moment.

- **Unused_K**

  Unused at the moment.

- **LockedItem**

  A link to an item for which access is denied because the user has no permissions to access the referenced item.

- **TmManualId**

  A link to a manual from the technical manuals module.

- **OeSparePartNo**

  A link to a OE spare part no from a technical manual.

- **WdMainGroupId**

  A link to main group from the wiring diagrams module.

- **Image**

  A link to an image.

- **Unused_Q**

  Unused at the moment.

- **Unused_R**

  Unused at the moment.

- **BgSubGroupId**

  A link to a sub group from the body graphics module.

- **VehicleTreeTypeId**

  A link to a vehicle type from the vehicle tree module.

- **Unused_U**

  Unused at the moment.

- **Unused_V**

  Unused at the moment.

- **WdItemMpId**

  A link to an item mount position from the wiring diagrams module.

- **Unused_X**

  Unused at the moment.

- **ImageLinkId**

  A link from an image, currently used for partposition module.

- **Unused_Z**

  Unused at the moment.

8. KindOfWorkTimeData

8.1. Summary

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

8.2. Detailed Module Documentation

8.2.1. Enums

- **DecimalWorkHours**

  The work time is displayed in decimal work hours.

- **ManufacturerWorkPositions**

  The work time is displayed in manufacturer work time units.

9. LinkedDiagnosticsMsg

9.1. Summary

Class RestRMI.Areas.Wd.Models.LinkedDiagnosticsMsg contains the properties which are necessary to call web service method LinkedDiagnostics(LinkedDiagnosticsMsg).

9.2. Detailed Module Documentation

9.2.1. 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> DiComponentTypeId**

  Gets or sets the identifier of the diagnostic component type.

  Property-Value

  The identifier of the di component type.

- **int DiItemId**

  Gets or sets the identifier of the diagnostic item.

  Property-Value

  The identifier of the di item.

- **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.

10. LinkedFuseRelaisMsg

10.1. Summary

Class RestRMI.Areas.Wd.Models.LinkedFuseRelaisMsg contains the properties which are necessary to call web service method LinkedFuseRelais(LinkedFuseRelaisMsg).

10.2. Detailed Module Documentation

10.2.1. Properties

- **int ComponentTypeId**

  Gets or sets the component type id.

  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.

- **int LinkId**

  Gets or sets the identifier of the link.

  Property-Value

  The identifier of the link.

- KindOfLinkTypes **LinkType**

  Gets or sets the type of the link.

  Property-Value

  The type of the link.

- **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. LinkedPartPositionMsg

11.1. Summary

Class RestRMI.Areas.Wd.Models.LinkedPartPositionMsg contains the properties which are necessary to call web service method LinkedPartPosition(LinkedPartPositionMsg).

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.

- **string LanguageCode**

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

  Property-Value

  The ISO language code.

- **int LinkedId**

  Gets or sets the identifier of the link.

  Property-Value

  The identifier of the link.

- KindOfLinkTypes **LinkType**

  Gets or sets the type of the link.

  Property-Value

  The type of the link.

- **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. LinkedWiringDiagramsMsg

12.1. Summary

Class RestRMI.Areas.Wd.Models.LinkedWiringDiagramsMsg contains the properties which are necessary to call the web service methods LinkedWiringDiagrams(LinkedWiringDiagramsMsg).

12.2. Detailed Module Documentation

12.2.1. 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.

13. MainGroupHtmlMsg

13.1. Summary

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

13.2. Detailed Module Documentation

13.2.1. 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.

14. ManualHtmlMsg

14.1. Summary

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

14.2. Detailed Module Documentation

14.2.1. 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.

- **KindOfWorkTimeData KindOfWorkTime**

  Gets or sets an enum value indicates which unit the work time in the result should have.

  Property-Value

  The kind of unit of the work time.

- **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.

15. ManualListMsg

15.1. Summary

Class RestRMI.Areas.Wd.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).

15.2. Detailed Module Documentation

15.2.1. 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.

16. PpItemMp

16.1. 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.

16.2. Detailed Module Documentation

16.2.1. 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<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.

17. PpManual

17.1. Summary

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

17.2. Detailed Module Documentation

17.2.1. 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.

18. QualCol

18.1. Summary

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

18.2. Detailed Module Documentation

18.2.1. 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 of the qualifier collection.

  Property-Value

  The qualifier collection text.

19. SubGroupHtmlMsg

19.1. Summary

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

19.2. Detailed Module Documentation

19.2.1. 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.

20. VehicleHasWiringMsg

20.1. Summary

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

20.2. Detailed Module Documentation

20.2.1. 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.

21. WdItemMp

21.1. 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.

21.2. Detailed Module Documentation

21.2.1. 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<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.

22. WdMainGroup

22.1. 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.

22.2. Detailed Module Documentation

22.2.1. 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<WdSubGroup> SubGroups**

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

  Property-Value

  The sub groups.

23. WdManual

23.1. Summary

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

23.2. Detailed Module Documentation

23.2.1. 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.

24. WdSubGroup

24.1. 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.

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 sub group.

  The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **List<WdItemMp> 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.