Interface Description

ServiceDi_REST

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Module Details

1. DiagnosticValuesController

1.1. Sequence Of Calls

First, check whether there is diagnosis data available for the selected vehicle. To do so, call
VehicleHasDiagnostics passing your type id. (**true**) which returns a Boolean value indicating whether there is
diagnostic data (**true**) or not (**false**)
By calling the ComponentsForType method you get the components of the given vehicle which have diagnostic
data. The diagnostic tree is fetched by invoking the method List with the chosen component type id. Finally you
call the method ManualHtml the get a HTML document with the detailed data for the selected item from the
diagnostic tree.

1.2. Summary

Area RestRMI.Areas.Di.Controllers.DiagnosticValuesController provides the web service methods for
the part diagnostic. Here, you can see the diagnostic data on the selected vehicle.

1.3. content

A controller for handling diagnostic values.

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 VehicleHasDiagnostics(VehicleHasDiagnosticsMsg input)**

Checks whether diagnosis data is available for the given vehicle.

Parameter

input - Instance of the message class VehicleHasDiagnosticsMsg.

Returns

true - if adjustment data exists; otherwise false.

- **List<DiComponentType> ComponentsForType(ComponentsForTypeMsg input)**

Gets a country specific list of components with diagnostic data for the given vehicle.

Parameter

input - Instance of the message class ComponentsForTypeMsg.

Returns

A collection of components.

- **IEnumerable<DiMainGroup> List(ListMsg input)**

Delivers a country specific list to generate a diagnostic tree for the given component in the selected language.

Parameter

input - Instance of the message class ListMsg.

Returns

The topic tree for the diagnostic data.

- **string MainGroupHtml(MainGroupHtmlMsg input)**

Delivers a country specific string which contains HTML-lines from which an HTML-file for the diagnostic manuals of a main group can be generated.

Parameter

input - Instance of the message class MainGroupHtmlMsg.

Returns

A string which contains HTML-lines from which an HTML-file for the diagnostic manuals of a main group can be generated.

- **string SubGroupHtml(SubGroupHtmlMsg input)**

  Delivers a country specific string which contains HTML-lines from which an HTML-file for the diagnostic manuals of a sub group can be generated.

  Parameter

  input - Instance of the message class SubGroupHtmlMsg.

  Returns

  A string which contains HTML-lines from which an HTML-file for the diagnostic manuals of a sub group can be generated.

- **string ManualHtml(ManualHtmlMsg input)**

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

  Parameter

  input - Instance of the message class ManualHtmlMsg.

  Returns

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

- **IEnumerable<DiConnectorCondition> ConnectorConditions(ConnectorConditionsMsg input)**

  Gets the connector conditions.

  Parameter

  input - Instance of the message class ConnectorConditionsMsg.

  Returns

  The connector conditions.

- **IEnumerable<DiDiagnosticsValue> Value(ValueMsg input)**

  Gets the diagnostics value.

  Parameter

  input - Instance of the message class ValueMsg.

  Returns

  The diagnostics value.

- **IEnumerable<String> ImageNamesForDiagnostics(ImageNamesForDiagnosticsMsg input)**

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

  Parameter

input - Instance of the message class ImageNamesForDiagnosticsMsg.

Returns

The image names for the diagnostic manual.

- **string Image(ImageMsg input)**

Returns a stream which contains the requested diagnostic image.

Parameter

input - Instance of the message class ImageMsg.

Returns

A byte array which contains the requested image.

- **IEnumerable<AdItemMp> LinkedTechnicalData(LinkedTechnicalDataMsg input)**

Gets the technical data which are linked to this diagnostic manual.

Parameter

input - Instance of the message class LinkedTechnicalDataMsg.

Returns

A collection of linked technical data.

- **TmManual LinkedTechnicalManuals(LinkedTechnicalManualsMsg input)**

Gets the technical manuals which are linked to this diagnostic manual.

Parameter

input - Instance of the message class LinkedTechnicalManualsMsg.

Returns

A collection of linked technical manuals.

- **IEnumerable<LtItemMpKor> LinkedLabourTimes(LinkedLabourTimesMsg input)**

Gets the labour times work positions which are linked to this diagnostic manual.

Parameter

input - Instance of the message class LinkedLabourTimesMsg.

Returns

A collection of linked labour times work position.

- **IEnumerable<WdItemMp> LinkedWiringDiagrams(LinkedWiringDiagramsMsg input)**

Gets the wiring diagrams which are linked to this diagnostic manual.

Parameter

input - Instance of the message class LinkedWiringDiagramsMsg.

Returns

A collection of linked wiring diagrams.

- **IEnumerable<FrBoxItemMp> LinkedRelaysFuses(LinkedRelaysFusesMsg input)**

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

Parameter

input - Instance of the message class LinkedRelaysFusesMsg.

Returns

A collection of linked fuse and relays manuals.

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

Gets the part position manuals which are linked to this diagnostic manual.

Parameter

input - Instance of the message class LinkedPartPositionMsg.

Returns

A collection of linked part position manuals.

- **IEnumerable<DiMeasuringUnit> MeasuringUnits(MeasuringUnitsMsg input)**

Gets the measuing units.

Parameter

input - Instance of the message class MeasuringUnitsMsg.

Returns

A collection of measuring units.

- **IEnumerable<DiItemMpDetailed> ErrorCode(ErrorCodeMsg input)**

Delivers a country specific list of diagnostic ItemMps for the given type, component and error code in the selected language

Parameter

input - Instance of the message class VehicleHasDiagnosticsMsg.

Returns

Detailed diagnostic ItemMp data.

- **IEnumerable<DiItemMpDetailed> ItemList(ItemListMsg input)**

Delivers a country specific list of diagnostic ItemMps for the given type, component and item id in the selected language

Parameter

input - Instance of the message class ItemListMsg.

Returns

Detailed diagnostic ItemMp data.

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 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.

2. ComponentsForTypeMsg

2.1. Summary

Class RestRMI.Areas.Di.Models.ComponentsForTypeMsg contains the properties which are necessary to call the web service methods ComponentsForType(ComponentsForTypeMsg).

2.2. Detailed Module Documentation

2.2.1. 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 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.

3. ConnectorConditionsMsg

3.1. Summary

Class RestRMI.Areas.Di.Models.ConnectorConditionsMsg contains the properties which are necessary to call the web service methods ConnectorConditions(ConnectorConditionsMsg).

3.2. Detailed Module Documentation

3.2.1. Properties

- **string LanguageCode**

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

  Property-Value

  The ISO language code.

4. DiComponentType

4.1. Summary

Represents a component type in the diagnose module.

4.2. Detailed Module Documentation

4.2.1. 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.

5. DiConnectorCondition

5.1. Summary

Represents a connector condition for diagnose part of the AuDaLib.

5.2. Detailed Module Documentation

5.2.1. Properties

- **int ConnectorConditionId**

  Gets or sets the id of the connector condition.

  Property-Value

  The connector condition id.

- **string ConnectorConditionText**

  Gets or sets the text of the connector condition.

  Property-Value

  The connector condition text.

6. DiDiagnosticsValue

6.1. Summary

Represents a diagnostics value for diagnose module.

6.2. Detailed Module Documentation

6.2.1. Properties

- **string AdditionalConditionQualColText**

  Gets or sets the text of the additional condition qualifier collection.

  Property-Value

  The additional condition qualifier collection text.

- **string AdditionalText**

  Gets or sets the additional text.

  Property-Value

  The additional text.

- **Nullable<Int32> ConnectorConditionId**

  Gets or sets the id of the connector condition.

  Property-Value

  The connector condition id.

- **int ContentId**

  Gets or sets the content id.

  Property-Value

  The content id.

- **string ImageName**

  Gets or sets the name of the image.

  Property-Value

  The name of the image.

- **int ItemMpId**

  Gets or sets the id of the item mount position.

  Property-Value

  The item mount position id.

- **string ItemMpText**

  Gets or sets the text of the item mount position.

  Property-Value

  The item mount position text.

- **Nullable<Int32> ManualId**

  Gets or sets the id of the manual.

Property-Value

The manual id.

- List<DiMeasurementCondition> MeasurementConditions

Gets or sets the measurement conditions.

Property-Value

The measurement conditions.

- string MeasurementDestinationText

Gets or sets the text of the measurement destination.

Property-Value

The measurement destination text.

- string MeasurementSourceText

Gets or sets the text of the measurement source.

Property-Value

The measurement source text.

- DiMeasurementValue MeasurementValue

Gets or sets the measurement value.

Property-Value

The measurement value.

- 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.

- int ValueId

Gets or sets the id of the value.

Property-Value

The value id.

7. DiItemMp

7.1. 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.

7.2. Detailed Module Documentation

7.2.1. 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.

8. DiItemMpDetailed

8.1. 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. Class contains detailed information for item and mount position from ItemMp.

8.2. Detailed Module Documentation

8.2.1. 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 ItemId

Gets or sets the identifier of the item.

Property-Value

The identifier of the item.

- 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.

- string ItemText

Gets or sets the item text.

Property-Value

The item text.

- List<DiValue> Manuals

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

Property-Value

The manuals.

- int MountPosId

Gets or sets the identifier of the mount position.

Property-Value

The identifier of the mount position.

- string MountPosText

Gets or sets the mount position text.

Property-Value

The 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.

- 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.

9. DiMainGroup

9.1. Summary

Represents a main group for diagnose topic tree. In the topic tree hierarchy, main groups are on the topmost level.

Each main group may have several sub groups as children.

9.2. Detailed Module Documentation

9.2.1. 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<DiSubGroup> SubGroups

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

Property-Value

The sub groups.

10. DiMeasurementCondition

10.1. Summary

Represents a measurement condition for the diagnose module.

10.2. Detailed Module Documentation

10.2.1. Properties

- int ItemMpId

Gets or sets the item mount position id.

Property-Value

The item mount position id.

- string ItemMpText

Gets or sets the item mount position text.

Property-Value

The item mount position text.

- int MeasurementConditionId

Gets or sets the measurement condition id.

Property-Value

The measurement condition id.

- **DiMeasurementValue** MeasurementValue

  Gets or sets the measurement value.

  Property-Value

  The measurement value.

- **int QualColId**

  Gets or sets the qualifier collection id.

  Property-Value

  The qualifier collection id.

- **string QualColText**

  Gets or sets the qualifier collection text.

  Property-Value

  The qualifier collection text.

11. DiMeasurementValue

11.1. Summary

Represents a measurement value in the diagnose module.

11.2. Detailed Module Documentation

11.2.1. Properties

- **int MaxIndicateBound**

  Gets or sets the maximum indicate bound.

  Property-Value

  The maximum indicate bound.

- **Nullable<Double> MaxIndicateValue**

  Gets or sets the maximum indicate value.

  Property-Value

  The maximum indicate value.

- **int MaxLimitBound**

  Gets or sets the maximum limit bound.

  Property-Value

  The maximum limit bound.

- **Nullable<Double> MaxLimitValue**

  Gets or sets the maximum limit value.

Property-Value

The maximum limit value.

- int MaxWarnBound

Gets or sets the maximum warn bound.

Property-Value

The maximum warn bound.

- Nullable<Double> MaxWarnValue

Gets or sets the maximum warn value.

Property-Value

The maximum warn value.

- int MeasurementValueClassId

Gets or sets the id of the measurement value class.

Property-Value

The measurement value class id.

- int MeasuringUnitId

Gets or sets the measuring unit id.

Property-Value

The measuring unit id.

- int MinIndicateBound

Gets or sets the minimum indicate bound.

Property-Value

The minimum indicate bound.

- Nullable<Double> MinIndicateValue

Gets or sets the minimum indicate value.

Property-Value

The minimum indicate value.

- int MinLimitBound

Gets or sets the minimum limit bound.

Property-Value

The minimum limit bound.

- Nullable<Double> MinLimitValue

Gets or sets the minimum limit value.

Property-Value

The minimum limit value.

- **int MinWarnBound**

  Gets or sets the minimum warn bound.

  Property-Value

  The minimum warn bound.

- **Nullable<Double> MinWarnValue**

  Gets or sets the minimum warn value.

  Property-Value

  The minimum warn value.

- **int TargetBound**

  Gets or sets the target bound.

  Property-Value

  The target bound.

- **Nullable<Double> TargetValue**

  Gets or sets the target value.

  Property-Value

  The target value.

12. DiMeasuringUnit

12.1. Summary

Represents a measuring unit in the diagnose part of the AuDaLib.

12.2. Detailed Module Documentation

12.2.1. Properties

- **int MeasuringUnitId**

  Gets or sets the id of the measuring unit.

  Property-Value

  The measuring unit id.

- **string MeasuringUnitText**

  Gets or sets the text of the measuring unit.

  Property-Value

  The measuring unit text.

- **string UnitToken**

Gets or sets the unit token.

Property-Value

The unit token.

13. DiSubGroup

13.1. Summary

Represents a sub group of the diagnose topic tree. 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.

13.2. Detailed Module Documentation

13.2.1. 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<DiItemMp> 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.

14. DiValue

14.1. 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.

14.2. Detailed Module Documentation

14.2.1. 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.

15. ErrorCodeMsg

15.1. Summary

An error code message.

15.2. Detailed Module Documentation

15.2.1. Properties

- **Nullable<Int32> ComponentTypeId**

  Gets or sets 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 ErrorCode**

  Gets or sets the OEBD error code. Value must start with P followed by 4 digits long error code. Use leading 0 for error codes with less then 4 digits. Example P0001.

  Property-Value

  The error 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 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. FrBoxConfiguration

16.1. Summary

Represents a specific configuration of a fuse and relays box.

16.2. Detailed Module Documentation

16.2.1. 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.

17. FrBoxItemMp

17.1. Summary

Represents configuration settings of a fuse and relays box.

17.2. Detailed Module Documentation

17.2.1. 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.

18. ImageMsg

18.1. Summary

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

18.2. Detailed Module Documentation

18.2.1. Properties

- string ImageName

Gets or sets the name of the requested image.

Property-Value

The name of the image.

19. ImageNamesForDiagnosticsMsg

19.1. Summary

Class RestRMI.Areas.Di.Models.ImageNamesForDiagnosticsMsg contains the properties which are necessary to call the web service methods ImageNamesForDiagnostics(ImageNamesForDiagnosticsMsg).

19.2. Detailed Module Documentation

19.2.1. Properties

- **Nullable<Int32> 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.

- **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 QualColId**

  Gets or sets the id of the qualifier collection. The id can be fetched by using the equivalent methods from the respective modules.

  Property-Value

  The qualifier collection id.

- **Nullable<Int32> SystemQualColId**

Gets or sets the id of the system qualifier collection.

Property-Value

The system qualifier collection 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. ItemListMsg

20.1. Summary

An error code message.

20.2. Detailed Module Documentation

20.2.1. Properties

- Nullable<Int32> 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.

- int ItemID

Gets or sets the identifier of the diagnostics item.

Property-Value

The diagnostics item 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.

21. KindOfLinkTypes

21.1. Summary

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

21.2. 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.

21.3. Detailed Module Documentation

21.3.1. 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.

22. KindOfWorkTimeData

22.1. Summary

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

22.2. Detailed Module Documentation

22.2.1. Enums

- **DecimalWorkHours**

  The work time is displayed in decimal work hours.

- **ManufacturerWorkPositions**

  The work time is displayed in manufacturer work time units.

23. LinkedLabourTimesMsg

23.1. Summary

Class RestRMI.Areas.Di.Models.LinkedLabourTimesMsg contains the properties which are necessary to call the web service methods LinkedLabourTimes(LinkedLabourTimesMsg).

23.2. Detailed Module Documentation

23.2.1. Properties

- **int ContentId**

  Gets or sets the identifier of the content.

  Property-Value

  The the content id.

- **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 the kind of work time.

  Property-Value

  The kind of 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.

- **int LtBodyQualColId**

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.

- **int TypeId**

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

Property-Value

The TecRMI type id.

24. LinkedPartPositionMsg

24.1. Summary

Class RestRMI.Areas.Di.Models.LinkedPartPositionMsg contains the properties which arenecessary to call the web service methods LinkedPartPosition(LinkedPartPositionMsg).

24.2. Detailed Module Documentation

24.2.1. Properties

- **int ContentId**

Gets or sets identifier of the content.

Property-Value

The the content 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 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.

25. LinkedRelaysFusesMsg

25.1. Summary

Class RestRMI.Areas.Di.Models.LinkedRelaysFusesMsg contains the properties which are necessary to call the web service methods LinkedRelaysFuses(LinkedRelaysFusesMsg).

25.2. Detailed Module Documentation

25.2.1. Properties

- **int ComponentTypeId**

  Gets or sets the identifier of the component type.

  Property-Value

  The component type id.

- **int ContentId**

  Gets or sets the identifier of the content.

  Property-Value

  The the content 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 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.

26. LinkedTechnicalDataMsg

26.1. Summary

Class RestRMI.Areas.Di.Models.LinkedTechnicalDataMsg contains the properties which are necessary to call the web service methods LinkedTechnicalData(LinkedTechnicalDataMsg).

26.2. Detailed Module Documentation

26.2.1. Properties

- **int ContentId**

  Gets or sets identifier of the content.

  Property-Value

  The the content 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 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.

27. LinkedTechnicalManualsMsg

27.1. Summary

Class RestRMI.Areas.Di.Models.LinkedTechnicalManualsMsg contains the properties which are necessary to call the web service methods LinkedTechnicalManuals(LinkedTechnicalManualsMsg).

27.2. Detailed Module Documentation

27.2.1. Properties

- **int ContentId**

  Gets or sets the identifier of the content.

  Property-Value

  The the content 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 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.

28. LinkedWiringDiagramsMsg

28.1. Summary

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

28.2. Detailed Module Documentation

28.2.1. Properties

- int ContentId

Gets or sets identifier of the content.

Property-Value

The the content 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 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.

29. ListMsg

29.1. Summary

Class RestRMI.Areas.Di.Models.ListMsg contains the properties which are necessary to call the web service methods List(ListMsg).

29.2. Detailed Module Documentation

29.2.1. Properties

- **Nullable<Int32> ComponentTypeId**

Gets or sets 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.

- **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.

30. LtItemMpKor

30.1. 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.

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 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 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.

31. MainGroupHtmlMsg

31.1. Summary

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

31.2. Detailed Module Documentation

31.2.1. Properties

- **Nullable<Int32> ComponentTypeId**

Gets or sets the identifier 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.

Property-Value

The link url.

- int MainGroupId

Gets or sets the identifier of the main group.

Property-Value

The identifier of the main group.

- 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.

- 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.

32. ManualHtmlMsg

32.1. Summary

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

32.2. Detailed Module Documentation

32.2.1. Properties

- **Nullable<Int32> ComponentTypeId**

Gets or sets the identifier 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.

- **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.

- **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.;
```

- **bool PrintView**

    Gets or sets a value indicating whether the HTML file should be prepared for printing.

    Property-Value

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

- **int QualColId**

    Gets or sets the id of the qualifier collection. The id can be fetched by using the equivalent methods from the respective modules.

    Property-Value

    The qualifier collection id.

- **Nullable<Int32> SystemQualColId**

    Gets or sets the id of the system qualifier collection.

    Property-Value

    The system qualifier collection 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.

33. MeasuringUnitsMsg

33.1. Summary

Class RestRMI.Areas.Di.Models.MeasuringUnitsMsg contains the properties which are necessary to call the web service methods MeasuringUnits(MeasuringUnitsMsg).

33.2. Detailed Module Documentation

33.2.1. Properties

- **string LanguageCode**

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

    Property-Value

    The ISO language code.

34. PpItemMp

34.1. 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.

34.2. Detailed Module Documentation

34.2.1. 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.

35. PpManual

35.1. Summary

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

35.2. Detailed Module Documentation

35.2.1. 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.

36. QualCol

36.1. Summary

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

36.2. Detailed Module Documentation

36.2.1. 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.

37. SubGroupHtmlMsg

37.1. Summary

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

37.2. Detailed Module Documentation

37.2.1. Properties

- **Nullable<Int32> ComponentTypeId**

Gets or sets the identifier 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.

Property-Value

The link url.

- **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.

- int SubGroupId

Gets or sets the identifier of the sub group.

Property-Value

The identifier of the sub group.

- 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.

38. TmManual

38.1. Summary

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

38.2. Detailed Module Documentation

38.2.1. 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.

39. ValueMsg

39.1. Summary

Class RestRMI.Areas.Di.Models.ValueMsg contains the properties which are necessary to call the web

service methods Value(ValueMsg).

39.2. Detailed Module Documentation

39.2.1. Properties

- Nullable<Int32> 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.

- bool IncludeCondition

Determines whether the condition should be included.

Property-Value

true if conditions should be included, false if not.

- 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 QualColId

Gets or sets the id of the qualifier collection. The id can be fetched by using the equivalent methods from the respective modules.

Property-Value

The qualifier collection id.

- Nullable<Int32> SystemQualColId

Gets or sets the id of the system qualifier collection.

Property-Value

The system qualifier collection 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.

40. VehicleHasDiagnosticsMsg

40.1. Summary

Class RestRMI.Areas.Di.Models.VehicleHasDiagnosticsMsg contains the properties which are necessary to call the web service methods VehicleHasDiagnostics(VehicleHasDiagnosticsMsg).

40.2. Detailed Module Documentation

40.2.1. 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.

41. WdItemMp

41.1. 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.

41.2. Detailed Module Documentation

41.2.1. 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.

42. WdManual

42.1. Summary

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

42.2. Detailed Module Documentation

42.2.1. 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.