

# Interface Description

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ServiceMd\_REST



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TecAlliance GmbH

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## Module Details

### 1. MaintenanceController

#### 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 of all, you should check whether there is maintenance data available for the currently selected vehicle. To perform this check, you simply call [VehicleHasMaintenance](#) which returns a boolean value indicating whether there is maintenance data ( **true**) or not ( **false**). Then you should choose the matching body of your vehicle from the return value of the method [BodiesForMaintenance](#) .

Next step is to call [SubGroups](#) to get a list of service main works and addition works for your vehicle.

If you want to get the work steps for an item call the method [WorkSteps](#) .

To get a maintenance plan you can either call [MaintenancePlanData](#) or [MaintenancePlanHtml](#) for the HTML version of the manual.

To get the manufacturers information your vehicle pass its type id to [MakeInfoManuals](#) . From this method you will get a list of manual ids in return, which you can use to call

`RestRMI.Areas.Tm.Controllers.ManualsController.ManualHtml(RestRMI.Areas.Tm.Models.ManualHtmlMsg)`.

#### 1.3. Summary

Area [RestRMI.Areas.Md.Controllers.MaintenanceController](#) provides the web service methods for the part maintenance data. Select here main maintenance and extra maintenance work by mileage or running period.

#### 1.4. Detailed Module Documentation

##### 1.4.1. Properties

- **HttpContext ActionContext**  
No description available
- **HttpConfiguration Configuration**  
No description available
- **HttpContext 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 VehicleHasMaintenance(VehicleHasMaintenanceMsg input)**

Checks whether the vehicle has service (maintenance) data.

**Parameter**

input - Instance of the message class VehicleHasMaintenanceMsg

**Returns**

true - if maintenance data exists; otherwise false.

- **IEnumerable<MdBodyQualCol> BodiesForMaintenance(BodiesForMaintenanceMsg input)**

Delivers a country specific list including all existing bodies for the typeId in the selected language.

**Parameter**

input - Instance of the message class BodiesForMaintenanceMsg

**Returns**

The maintenance data bodies.

- **IEnumerable<MdTmLinkedManual> MakeInfoManuals(MakeInfoManualsMsg input)**

Fetches the manual ids for selecting an existing manufacturer information as HTML from calling the method RestRMI.Areas.Tm.Controllers.ManualsController.ManualHtml(RestRMI.Areas.Tm.Models.ManualHtmlMsg).

**Parameter**

input - Instance of the message class MakeInfoManualsMsg

**Returns**

The manufacturer info manuals.

- **MdSubGroups SubGroups(SubGroupsMsg input)**

Delivers a country specific object to generate the maintenance topic tree for the TecRMI type id with the selected body and filter in the given language.

**Parameter**

input - Instance of the message class SubGroupsMsg

**Returns**

The service sub groups.

**- IEnumerable<MdWorkPos> WorkSteps(WorkStepsMsg input)**

Delivers a country specific list to generate a maintenance work position for the given vehicle, body, item mount position and kind of repair in the given language.

**Parameter**

input - Instance of the message class WorkStepsMsg

**Returns**

A maintenance work position.

**- IEnumerable<MdWorkPosSuggestion> GetMdWorkstepsSuggestedWork(WorkStepsMsg input)**

Gets a collection with suggested works for the passed work.

**Parameter**

input - Instance of the message class WorkStepsMsg

**Returns**

An enumerator that allows foreach to be used to process the md work steps suggested works in this collection.

**- IEnumerable<MdWorkPosWithQualifiers> WorkStepsIncludingQualifiers(WorkStepsIncludingQualifiersMsg input)**

Delivers a country specific list to generate a maintenance work position for the given vehicle, body, item mount position and kind of repair in the given language. Including a list where the Qualifier Collection identifier is split into its parts. If this split list should be used to filter out not suitable work steps, if there is no exact filter match use the work step labeled with the qualifier collection standard.

**Parameter**

input - Instance of the message class WorkStepsIncludingQualifiersMsg

**Returns**

A maintenance work position.

**- MdSubGroupWorks Works(WorksMsg input)**

Delivers a country specific object to generate the maintenance topic tree for the vehicle type, the selected maintenance data body in the selected language and the related work steps info.

**Parameter**

input - Instance of the message class WorksMsg

**Returns**

The service sub groups and related work positions.

**- MdServicePlan MaintenancePlanData(MaintenancePlanDataMsg input)**

Delivers the country specific raw data object for creating the maintenance plan.

**Parameter**

input - Instance of the message class MaintenancePlanDataMsg

**Returns**

The maintenance plan data.

**- string MaintenancePlanHtml(MaintenancePlanHtmlMsg input)**

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

**Parameter**

input - Instance of the message class MaintenancePlanHtmlMsg

**Returns**

A string containing html lines for a html file of the service plan.

**- bool GetVehicleHasMdServiceProposal(VehicleHasMdServiceProposalMsg input)**

Checks if service finder is available for the selected vehicle.

**Parameter**

input - Instance of the message class VehicleHasMdServiceFinderMsg

**Returns**

true - if service finder data exists; otherwise false.

**- KindOfGearBoxCodes[] PossibleGearboxCodes(PossibleGearboxCodesMsg input)**

Maintenance possible gearbox codes.

**Parameter**

input - Instance of the message class PossibleGearboxCodesMsg

**Returns**

A KindOfGearBoxCodes[].

- **CooPossibleFilterParameters** PossibleCooGroupFilterParameters(**PossibleCooGroupFilterParametersMsg** input)

Maintenance posible coo group filter parameters.

**Parameter**

input - Instance of the message class PosibleCooGroupFilterParametersMsg

**Returns**

The CooPossibleFilterParameters.

- **List<CooGroupQualCol>** ServiceProposalCooGroups(**ServiceProposalCooGroupsMsg** input)

Maintenance service proposal coo groups.

**Parameter**

input - Instance of the message class ProposalCooGroupsMsg

**Returns**

A List<CooGroupQualCol>

- **List<CooGroupQualColWithQualifiers>** ServiceProposalCooGroupsIncludingQualifiers(**ServiceProposalCooGroupsIncludingQualifiersMsg** input)

Maintenance service proposal coo groups.

**Parameter**

input - Instance of the message class ServiceProposalCooGroupsIncludingQualifiersMsg

**Returns**

A List<CooGroupQualCol>

- **MdServiceProposal** ServiceProposal(**ServiceProposalMsg** input)

Delivers a list of work positions which should have be done in the last service and a list of work positions which should be done in the next service for the selected vehicle, current mileage (in kilometres) and initial registration date for a specific vehicle.. This method is NOT applicable for the country GB. For the country GB use the method

RestRMI.Areas.Md.Controllers.MaintenanceController.ServiceProposalMiles(RestRMI.Areas.Md.Models.Servi  
ceProposalMilesMsg)

**Parameter**

input - Instance of the message class ProposalMsg.

**Returns**

Returns a service proposal in kilometers.



**- MdServiceProposalMiles ServiceProposalMiles(ServiceProposalMilesMsg input)**

Delivers a list of work positions which should be done in the last service and a list of work positions which should be done in the next service for the selected vehicle, current mileage (in miles) and initial registration date for a specific vehicle. This method is ONLY applicable for the country GB. For other countries use the method

RestRMI.Areas.Md.Controllers.MaintenanceController.ServiceProposal(RestRMI.Areas.Md.Models.ServiceProposalMsg)

**Parameter**

input - Instance of the message class ProposalMsg.

**Returns**

Returns a service proposal in miles.

# Object Model

## 1. BodiesForMaintenanceMsg

### 1.1. Summary

Class [RestRMI.Areas.Md.Models.BodiesForMaintenanceMsg](#) contains the properties which are necessary to call web service methods BodiesForMaintenance(BodiesForMaintenanceMsg).

### 1.2. Detailed Module Documentation

#### 1.2.1. 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.

## 2. CheckboxChecked

### 2.1. Summary

Values that represent CheckboxChecked.

### 2.2. Detailed Module Documentation

#### 2.2.1. Enums

- **Undefined**

An enum constant representing the undefined option.

- **Ok**

An enum constant representing the ok option.

Enum is used in each work step.

- **NotOk**

An enum constant representing the not ok option.

Enum is used in each work step

- **Fixed**

An enum constant representing the fixed option.

Enum is used in each work step

### 3. CooGroupDefaultFilter

#### 3.1. Summary

Class object for coo group filter by vehicle equipment parameters.

#### 3.2. Detailed Module Documentation

##### 3.2.1. Properties

- **bool FilterValue**

Gets or sets a value indicating whether the filter value.

**Property-Value**

true if filter value, false if not.

- **KindOfCooGroupFilter KindOfFilter**

Gets or sets the kind of filter.

**Property-Value**

The kind of filter.

### 4. CooGroupQualCol

#### 4.1. Summary

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

#### 4.2. Detailed Module Documentation

##### 4.2.1. Properties

- **int Coold**

Gets or sets the id of the cost of ownership group.

**Property-Value**

The coo id.

- **int QualCollid**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

- **string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

## 5. CooGroupQualColWithQualifiers

### 5.1. Summary

Class **CooGroupQualColWithQualifiers** represents a qualifier collection including a list where the qualifier collection is split into its parts. The qualifier collection delivers a further differentiation for an item.

### 5.2. Detailed Module Documentation

#### 5.2.1. Properties

- **int Coold**

Gets or sets the id of the cost of ownership group.

**Property-Value**

The coo id.

- **int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

- **string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

- **List<[QualifierData](#)> Qualifiers**

Gets or sets the collection qualifiers where the qualifier collection identifier is build up.

**Property-Value**

The individual qualifiers of the QualCollId.

## 6. CooPossibleFilterParameters

### 6.1. Summary

Contains information about the possible coo group filter parameters for a selected vehicle.

## 6.2. Detailed Module Documentation

### 6.2.1. Properties

- **bool IsFilterByEuroExhaustNormPossible**

Gets or sets a value indicating whether this object is filter by euro exhaust normalise possible.

**Property-Value**

true if this object is filter by euro exhaust normalise possible, false if not.

- **bool IsFilterByGearBoxCodePossible**

Gets or sets a value indicating whether this object is filter by gear box code possible.

**Property-Value**

true if this object is filter by gear box code possible, false if not.

- **bool IsFilterByRegistrationDatePossible**

Gets or sets a value indicating whether this object is filter by registration date possible.

**Property-Value**

true if this object is filter by registration date possible, false if not.

- **bool IsFilterByVinNumberPossible**

Gets or sets a value indicating whether this object is filter by vin number possible.

**Property-Value**

true if this object is filter by vin number possible, false if not.

- **List<KindOfCooGroupFilter> PossibleEquipmentFilter**

Gets or sets the possible equipment filter.

**Property-Value**

The possible equipment filter.

## 7. KindOfCooGroupFilter

### 7.1. Summary

Values that represent KindOfCooGroupFilter.

### 7.2. Detailed Module Documentation

#### 7.2.1. Enums

- **Longlife**

An enum constant representing the longlife= 1001 option.

- **ParticleFilter**

An enum constant representing the particle filter= 1002 option.

- **StartStopSystem**

An enum constant representing the start stop system= 1003 option.

- **Aircondition**

An enum constant representing the aircondition= 1004 option.

- **TowCoupling**

An enum constant representing the tow coupling= 1005 option.

- **FuelAdditive\_AddBlue**

An enum constant representing the fuel additive add blue= 1006 option.

- **SunRoof**

An enum constant representing the sun roof= 1007 option.

- **XenonHeadlamps**

An enum constant representing the xenon headlamps= 1008 option.

## 8. KindOfGearBoxCodes

### 8.1. Summary

Values that represent the kind of gear box codes.

### 8.2. Detailed Module Documentation

#### 8.2.1. Enums

- **AutomaticGearBox**

An enum constant representing the automatic gear box option.

- **ManualGearBox**

An enum constant representing the manual gear box option.

- **AutomatedGearBox**

An enum constant representing the automatic shift gear box option.

## 9. KindOfLinkTypes

### 9.1. Summary

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

### 9.2. 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/pa1205p", where "someUrl/" is the link URL, "p" 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.

## 9.3. Detailed Module Documentation

### 9.3.1. Enums

- **None**

No link.

- **AdItemMpld**

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

- **FusesBoxItemMpld**

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.

- **TmItemMpld**

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.

## 10. KindOfMdDataSource

### 10.1. Summary

Indicates whether the received maintenance data are from the original manufacturer or from the TecAlliance certified Service.

### 10.2. Detailed Module Documentation

#### 10.2.1. Enums

- **Oe**

Service data are those of the original manufacturer.

- **Tcs**

Service data based on TecAlliance certified service.

## 11. KindOfOptionalHeaderValue

### 11.1. Summary

Some of the HTML generation methods offer the possibility to pass different header values optionally. This enumeration specifies the kinds of header values that are allowed.



## 11.2. Detailed Module Documentation

### 11.2.1. Enums

- **Date**  
The optional header value is a date.
- **Customer**  
The optional header value is a customer.
- **PhoneNo**  
The optional header value is a phone number.
- **Job**  
The optional header value is a job.
- **No**  
The optional header value is a number.
- **Mileage**  
The optional header value is a milage.
- **Culture**  
The culture for formating decimal values.
- **DecimalFormat**  
The formating string for formatting decimal values
- **WorkTime**  
An enum constant representing the work time option.

## 12. KindOfPrintViewEditingValue

### 12.1. Summary

indicates which part of the print view gets edited

## 12.2. Detailed Module Documentation

### 12.2.1. Enums

- **ExcludeAD**  
visibility option for adjustment data
- **ExcludeTM**  
visibility option for technical manuals
- **ExcludeServicePlan**  
visibility option for the service plan

## 13. KindOfValueMd

### 13.1. Summary

Values that represent KindOfValue.

## 13.2. Detailed Module Documentation

### 13.2.1. Enums

- **ServiceBookDigital**

An enum constant representing the availability of the service book option in digital form.

Expected value of data type bool.

- **ServiceBookPaper**

An enum constant representing the availability of the service book option in paper form.

Expected value of data type bool.

- **ServiceBookNone**

An enum constant representing no service book is available.

Expected value of data type bool.

- **OpenRecallsYes**

An enum constant representing the open recalls option 'yes'.

Expected value bool.

- **OpenRecallsNo**

An enum constant representing the open recalls option 'no'.

Expected value bool.

- **OpenRecallsDone**

An enum constant representing the open recalls option 'done'.

Expected value bool.

- **NextInspectionDate**

An enum represents the date for the next general inspection and vehicle emissions test.

Expected value of data type string in date format "yyyy/mm/dd".

- **PressureFrontLeft**

An enum represents the pressure of the front left tyre.

Expected value of data type float.

- **PressureFrontRight**

An enum represents the pressure of the front right tyre.

Expected value of data type float.

- **PressureRearLeft**

An enum represents the pressure of the rear left tyre.

Expected value of data type float.

- **PressureRearRight**

An enum represents the pressure of the rear right tyre.

Expected value of data type float.

- **PressureSpareWheel**

An enum represents the pressure of the spare wheel.

Expected value of data type float.

- **ProfileFrontLeft**

An enum represents the profile depth of the front left tyre.

Expected value of data type float.

- **ProfileFrontRight**

An enum represents the profile depth of the front right tyre.

Expected value of data type float.

- **ProfileRearLeft**

An enum represents the profile depth of the rear left tyre.

Expected value of data type float.

- **ProfileRearRight**

An enum represents the profile depth of the rear right tyre

Expected value of data type float.

- **ProfileSpareWheel**

An enum represents the profile depth of the spare tyre.

Expected value of data type float.

- **ServiceToIntervalDisplay**

An enum constant representing the check box for the next service option.

Expected value of data type boolean.

- **MileageForNextService**

An enum constant representing the mileage option for the next service.

Expected value of data type integer.

- **DateForNextService**

An enum constant representing the date for the next service .

Expected value of data type string in date format "yyyy/mm/dd".

- **Remark**

An enum constant representing the remark option.

Expected value of data type string.

- **DateOrderCarriedOut**

An enum constant representing the date order carried out option.

Expected value of data type string in date format "yyyy/mm/dd".

- **OrderCarriedOutBy**

An enum constant representing the order carried out by option.

Expected value of data type string.

## 14. KindOfWorkTimeData

### 14.1. Summary

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

the unit a work time has.

## 14.2. Detailed Module Documentation

### 14.2.1. Enums

- **DecimalWorkHours**

The work time is displayed in decimal work hours.

- **ManufacturerWorkPositions**

The work time is displayed in manufacturer work time units.

## 15. MaintenancePlanDataMsg

### 15.1. Summary

Class [RestRMI.Areas.Md.Models.MaintenancePlanDataMsg](#) contains the properties which are necessary to call web service methods MaintenancePlanData(MaintenancePlanDataMsg).

## 15.2. Detailed Module Documentation

### 15.2.1. Properties

- **List<Int32> AdditionalWorkIds**

Gets or sets a collection of additional work ids. The ids can be fetched by calling the webservice method SubGroups(SubGroupsMsg).

**Property-Value**

The additional work ids.

- **int BodyQualCollId**

Gets or sets the body qualifier id which defines the vehicle construction.

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

**Property-Value**

The body qualifier id.

- **string 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.

**- List<Int32> ServiceWorkIds**

Gets or sets a collection of service main work ids. The ids can be fetched by calling the webservice method SubGroups(SubGroupsMsg).

**Property-Value**

The service work ids.

**- 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. MaintenancePlanHtmlMsg

### 16.1. Summary

Class [RestRMI.Areas.Md.Models.MaintenancePlanHtmlMsg](#) contains the properties which are necessary to call web service methods MaintenancePlanHtml(MaintenancePlanHtmlMsg).

### 16.2. Detailed Module Documentation

#### 16.2.1. Properties

**- List<Int32> AdditionalWorkIds**

Gets or sets a collection of additional work ids. The ids can be fetched by calling the webservice method SubGroups(SubGroupsMsg).

**Property-Value**

The additional work ids.

**- int BodyQualCollId**

Gets or sets the body qualifier id which defines the vehicle construction.

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

**Property-Value**

The body qualifier id.

**- string 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.

**Example**

```
LinkUrl = "http://localhost/" // -> Generated link in documents:  
http://localhost/1234;
```

**- List<OptHeaderValue> OptionalHeaderValues**

Gets or sets a collection of optional header values. By passing values it is possible to display additional information on the html document like telephone number, date, job number, etc.

**Remarks**

The value of the KindOfHeaderValue property has to be unique in the collection. The possible values are the member of the AuDaLib.Interface.ObjectModel.Common.KindOfOptionalHeaderValue. enum.

**Property-Value**

The optional header values.

**- List<MdOptionalValues> OptionalValues**

Gets or sets a collection of optional values. By passing values it is possible to display additional information on the html document like the values for mileage for the next service, date the order carried out, remarks from the mechanics etc.

**Property-Value**

The value of the KindOfValue property has to be unique in the collection. The possible values are the member of the AuDaLib.Interface.ObjectModel.Common.KindOfValueMd. enum.

**- List<MdOptionalWorkItemSelection> OptionalWorkItemSelection**

Gets or sets a collection of optional work item selection to tick the checkboxes for 'ok', 'not ok' and 'fixed'. Passing WorkId, ManualId and OrderId as the key to identify the work.

The possible values of the property Checked for the array are member of the CheckboxChecked.  
enum.

Gets or sets the optional work item selection.

**Property-Value**

The optional work item selection.

- **bool PrintView**

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

**Property-Value**

true if the document is conditioned for printing; otherwise, false.

- **List<PrintViewEditingMsg> PrintViewEditingValues**

Gets or sets a collection of print editing values. By transferring values,  
it is possible to select whether the entire maintenance plan should be displayed  
or only individual elements such as adjustment data, technical manuals or the work steps.

**Remarks**

The value of the PrintViewEditing property has to be unique in the collection. The possible values are the member of the AuDaLib.Interface.ObjectModel.MaintenanceData.KindOfPrintViewEditingValue. enum.

- **List<Int32> ServiceWorkIds**

Gets or sets a collection of service main work ids. The ids can be fetched by calling the  
webservice method SubGroups(SubGroupsMsg).

**Property-Value**

The service work ids.

- **bool ShowTyreTable**

Gets or sets a value indicating whether the document should contains a table  
where information about the tyres (eg. pressure or tread depth) can be listed or not.

**Property-Value**

true if the document should contains a tyres table; 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.

## 17. MakeInfoManualsMsg

### 17.1. Summary

Class [RestRMI.Areas.Md.Models.MakeInfoManualsMsg](#) contains the properties which are necessary to call web service methods MakeInfoManuals(MakeInfoManualsMsg).

## 17.2. Detailed Module Documentation

### 17.2.1. 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.

- **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.

## 18. MdAddItemMpKor

### 18.1. Summary

Represents an item mount position along with a kind of repair and additional text for the maintenance data part of the AuDaLib.

## 18.2. Detailed Module Documentation

### 18.2.1. Properties

- **string AddText**

Gets or sets the additional text.

**Property-Value**

The additional text.

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.



The portal database must be available to provide information data.

**Property-Value**

true if info data exists; otherwise, false.

**- bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

**Property-Value**

true if this item mount position is locked; otherwise, false.

**- int ItemMpld**

Gets or sets the id of the item mount position.

**Property-Value**

The item mount position id.

**- string ItemMplImageName**

Gets or sets the name of the item mount position image.

**Property-Value**

The the item mount position image name.

**- string ItemMpText**

Gets or sets the text of the item mount position.

**Property-Value**

The item mount position text.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImageName**

Gets or sets the image name of the kind of repair.

**Property-Value**

The image name of the kind of repair.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int SortOrder**

Gets or sets the order number of this topic item mount position. A collection

of topic item mount position will be sorted against this number.

**Property-Value**

The sort order.

## 19. MdAddItemMpKorWorks

### 19.1. Summary

Represents an item mount position along with a kind of repair and additional text for the maintenance data part of the AuDaLib and a list of related work positions.

### 19.2. Detailed Module Documentation

#### 19.2.1. Properties

**- string AddText**

Gets or sets the additional text.

**Property-Value**

The additional text.

**- bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

**Property-Value**

true if info data exists; otherwise, false.

**- bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

**Property-Value**

true if this item mount position is locked; otherwise, false.

**- int ItemMpld**

Gets or sets the id of the item mount position.

**Property-Value**

The item mount position id.

**- string ItemMplImageName**

Gets or sets the name of the item mount position image.

**Property-Value**

The the item mount position image name.

**- string ItemMpText**

Gets or sets the text of the item mount position.

**Property-Value**

The item mount position text.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImageName**

Gets or sets the image name of the kind of repair.

**Property-Value**

The image name of the kind of repair.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int SortOrder**

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

**Property-Value**

The sort order.

**- List<MdWorkPos> WorkSteps**

Gets or sets the work steps.

**Property-Value**

The work steps.

## 20. MdBodyQualCol

### 20.1. Summary

Represents a body qualifier collection for maintenance data. In general, the qualifier collection delivers a further differentiation for an item (in this case a vehicle type). Vehicle types may have different bodies (e.g. 3-door, 5-door) that can be referenced by the qualifier collection.

## 20.2. Detailed Module Documentation

### 20.2.1. Properties

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

## 21. MdExclWorkPos

### 21.1. Summary

Represents an exclusive work position for maintenance data work position. The selected main work position is a composition of all the exclusive work positions.

### 21.2. Detailed Module Documentation

#### 21.2.1. Properties

**- bool IsCompositeTime**

Gets or sets a value indicating whether the work time of this instance is a net work time.

**Property-Value**

true if this instance is composite time; otherwise, false.

**- bool IsOnlyForReference**

Gets or sets a value indicating whether the work time of this instance is only for reference.

**Property-Value**

true if this instance is only for reference; otherwise, false.

**- bool IsTecRmiTime**

Gets or sets a value indicating whether the work time of this instance is defined by TecRMI.

**Property-Value**

true if the work time of this instance is adc time; otherwise, false.

**- int ItemMpld**

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.

**- KindOfWorkTimeData KindOfWorkTimeData**

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

**Property-Value**

The kind of work time data.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImage**

Gets or sets the image of the kind of repair.

**Property-Value**

The kind of repair image.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

**- int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work position id.

**- string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work position text.

**- decimal WorkTime**

Gets or sets the work time.

**Property-Value**

The work time.

## 22. MdItemMpKor

### 22.1. Summary

Represents an item mount position along with a kind of repair for maintenance data.

### 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 item mount position.

The portal database must be available to provide information data.

**Property-Value**

true if info data exists; otherwise, false.

**- bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

**Property-Value**

true if this item mount position is locked; otherwise, false.

**- int ItemMpld**

Gets or sets the id of the item mount position.

**Property-Value**

The item mount position id.

**- string ItemMplImageName**

Gets or sets the name of the item mount position image.

**Property-Value**

The the item mount position image name.

**- string ItemMpText**

Gets or sets the text of the item mount position.

**Property-Value**

The item mount position text.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImageName**

Gets or sets the image name of the kind of repair.

**Property-Value**

The image name of the kind of repair.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int SortOrder**

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

**Property-Value**

The sort order.

## 23. MdItemMpKorWorks

### 23.1. Summary

Represents an item mount position along with a kind of repair for maintenance data and a list of related work positions.

### 23.2. Detailed Module Documentation

#### 23.2.1. Properties

**- bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this item mount position.

The portal database must be available to provide information data.

**Property-Value**

true if info data exists; otherwise, false.

**- bool IsLocked**

Gets or sets a value indicating whether access to this item mount position is denied.

**Property-Value**

true if this item mount position is locked; otherwise, false.

**- int ItemMpld**

Gets or sets the id of the item mount position.

**Property-Value**

The item mount position id.

**- string ItemMplImageName**

Gets or sets the name of the item mount position image.

**Property-Value**

The the item mount position image name.

**- string ItemMpText**

Gets or sets the text of the item mount position.

**Property-Value**

The item mount position text.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImageName**

Gets or sets the image name of the kind of repair.

**Property-Value**

The image name of the kind of repair.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int SortOrder**

Gets or sets the order number of this topic item mount position. A collection of topic item mount position will be sorted against this number.

**Property-Value**

The sort order.

**- List<MdWorkPos> WorkSteps**

Gets or sets the work steps.

**Property-Value**

The work steps.

## 24. MdOptExclWorkPos



## 24.1. Summary

Represents an optional exclusive work position for maintenance data work position which can only be selected in combination with its main labour times work position.

## 24.2. Detailed Module Documentation

### 24.2.1. Properties

- **bool IsCompositeTime**

Gets or sets a value indicating whether the work time of this instance is a net work time.

**Property-Value**

true if this instance is composite time; otherwise, false.

- **bool IsOnlyForReference**

Gets or sets a value indicating whether the work time of this instance is only for reference.

**Property-Value**

true if this instance is only for reference; otherwise, false.

- **bool IsTecRmiTime**

Gets or sets a value indicating whether the work time of this instance is defined by TecRMI.

**Property-Value**

true if the work time of this instance is adc time; otherwise, false.

- **int ItemMpld**

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.

- **KindOfWorkTimeData KindOfWorkTimeData**

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

**Property-Value**

The kind of work time data.

- **int Korld**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImage**

Gets or sets the image of the kind of repair.

**Property-Value**

The kind of repair image.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

**- int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work position id.

**- string WorkPositionNo**

Gets or sets the number of the work position.

**Property-Value**

The work position number.

**- string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work position text.

**- decimal WorkTime**

Gets or sets the work time.

**Property-Value**

The work time.

## 25. MdOptionalValues

### 25.1. Summary

Represents all optional input fields of the service plan html.

### 25.2. Detailed Module Documentation

#### 25.2.1. Properties

- **KindOfValueMd** KindOfValue

Gets or sets the kind of value.

**Property-Value**

Expected values from enum KindOfValueMd.

- **Object Value**

Gets or sets the value.

**Property-Value**

The value.

## 26. MdOptionalWorkItemSelection

### 26.1. Summary

A md optional work item selection.

### 26.2. Detailed Module Documentation

#### 26.2.1. Properties

- **CheckboxChecked[]** Checked

Gets or sets the value.

**Property-Value**

The value.

- **int ManualId**

Gets or sets the identifier of the content.

**Property-Value**

The identifier of the content.

- **int OrderId**

Gets or sets the identifier of the order.

**Property-Value**

The identifier of the order.

**- int WorkId**

Gets or sets the kind of value.

**Property-Value**

The kind of value.

## 27. MdServicePlan

### 27.1. Summary

Represents a service plan for maintenance data.

### 27.2. Detailed Module Documentation

#### 27.2.1. Properties

**- List<[MdServicePlanWork](#)> AdditionalWorkPositions**

Gets or sets a collection of additional work positions.

**Property-Value**

The additional work positions.

**- [KindOfMdDataSource](#) MdDataSource**

indicates whether the received data is from OE data or from a TecAlliance certified Service

**- List<[MdServicePlanWork](#)> ServiceWorkPositions**

Gets or sets a collection of service work positions.

**Property-Value**

The service work positions.

## 28. MdServicePlanPosition

### 28.1. Summary

Represents a position of a service plan for maintenance data.

### 28.2. Detailed Module Documentation

#### 28.2.1. Properties

**- string Amount**

Gets or sets the amount.

**Property-Value**

The amount.

**- [KindOfLinkTypes](#) AmountLinkType**

Gets or sets the link type of the amount.

**Property-Value**

The link type of the amount.

- **Nullable<Int32> AmountLinkValue**

Gets or sets the the amount of the link value.

**Property-Value**

The link value of the amount.

- **KindOfLinkTypes PositionLinkType**

Gets or sets the link type of the position.

**Property-Value**

The link type of the position.

- **Nullable<Int32> PositionLinkValue**

Gets or sets the link value of the position.

**Property-Value**

The link value of the position.

- **string PositionText**

Gets or sets the text of the position.

**Property-Value**

The position text.

- **int SortNo**

Gets or sets the sort number.

**Property-Value**

The sort number.

## 29. MdServicePlanWork

### 29.1. Summary

Specifies the raw data of a maintenance plan.

### 29.2. Detailed Module Documentation

#### 29.2.1. Properties

- **List<MdServicePlanPosition> ServicePlanPositions**

Gets or sets a collection of service plan positions.

**Property-Value**

The service plan positions.

- **int SortNr**

Gets or sets the sort number.

**Property-Value**

The sort number.

- **int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work id.

- **string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work text.

## 30. MdServiceProposal

### 30.1. Summary

Maintenance Service Proposal (Kilometres).

### 30.2. Detailed Module Documentation

#### 30.2.1. Properties

- **Nullable<Int32> LastKm**

Gets or sets the last kilometres.

**Property-Value**

The last kilometres.

- **Nullable<Int32> LastMonth**

Gets or sets the last month.

**Property-Value**

The last month.

- **List<MdServiceProposalWorkPos> LastServiceBeforKmMonth**

Gets or sets the last service befor kilometres month.

**Property-Value**

The last service befor kilometres month.

- **int NextKm**

Gets or sets the next kilometres.

**Property-Value**

The next kilometres.

**- int NextMonth**

Gets or sets the next month.

**Property-Value**

The next month.

**- List<MdServiceProposalWorkPos> NextServiceAfterKmMonth**

Gets or sets the next service after kilometres month.

**Property-Value**

The next service after kilometres month.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

## 31. MdServiceProposalMiles

### 31.1. Summary

Maintenance Service Proposal (Miles).

### 31.2. Detailed Module Documentation

#### 31.2.1. Properties

**- Nullable<Int32> LastMiles**

Gets or sets the last miles.

**Property-Value**

The last miles.

**- Nullable<Int32> LastMonth**

Gets or sets the last month.

**Property-Value**

The last month.

**- List<MdServiceProposalWorkPos> LastServiceBeforeMilesMonth**

Gets or sets the last service before miles/month.

**Property-Value**

The last service before miles/month.

**- int NextMiles**

Gets or sets the next miles.

**Property-Value**

The next miles.

**- int NextMonth**

Gets or sets the next month.

**Property-Value**

The next month.

**- List<MdServiceProposalWorkPos> NextServiceAfterMilesMonth**

Gets or sets the next service after miles/month.

**Property-Value**

The next service after miles/month.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

## 32. MdServiceProposalWorkPos

### 32.1. Summary

A md service proposal work position.

### 32.2. Detailed Module Documentation

#### 32.2.1. Properties

**- bool IsLocked**

Gets or sets a value indicating whether this object is locked.

**Property-Value**

true if this object is locked, false if not.



**- int ItemMpld**

Gets or sets the identifier of the item mp.

**Property-Value**

The identifier of the item mp.

**- string ItemMpText**

Gets or sets the item mp text.

**Property-Value**

The item mp text.

**- int KorId**

Gets or sets the identifier of the kor.

**Property-Value**

The identifier of the kor.

**- string KorText**

Gets or sets the kor text.

**Property-Value**

The kor text.

**- Nullable<Int32> QualColId**

Gets or sets the identifier of the qual col.

**Property-Value**

The identifier of the qual col.

**- string QualColText**

Gets or sets the qual col text.

**Property-Value**

The qual col text.

**- Nullable<Int32> WorkId**

Gets or sets the identifier of the work.

**Property-Value**

The identifier of the work.

## 33. MdSubGroups

### 33.1. Summary

Represents a sub group for maintenance data.

## 33.2. Detailed Module Documentation

### 33.2.1. Properties

- List<[MdAddItemMpKor](#)> **AdditionalWorks**

Gets or sets a collection of additional maintenance work positions.

**Property-Value**

The additional work positions.

- **bool IsMultipleServicesAllowed**

Indicate if multiple service work position selection is allowed or not.

**Property-Value**

true if multiple service work position selection is allowed, otherwise, false.

- **bool IsOnlyAdditionServiceAllowed**

Indicates if selection of addition service work position without a selected service main work position is allowed or not.

**Property-Value**

true if the only selection of addition service work positions are allowed; otherwise, false.

- List<[MdItemMpKor](#)> **Services**

Gets or sets the service list.

**Property-Value**

The service main work positions.

## 34. MdSubGroupWorks

### 34.1. Summary

Represents a sub group for maintenance data including info about work positions.

## 34.2. Detailed Module Documentation

### 34.2.1. Properties

- List<[MdAddItemMpKorWorks](#)> **AdditionalWorks**

Gets or sets a collection of additional maintenance work positions.

**Property-Value**

The additional work positions.

- **bool IsMultipleServicesAllowed**

Indicate if multiple service work position selection is allowed or not.

**Property-Value**

true if multiple service work position selection is allowed, otherwise, false.

**- bool IsOnlyAdditionServiceAllowed**

Indicates if selection of addition service work position without a selected service main work position is allowed or not.

**Property-Value**

true if the only selection of addition service work positions are allowed; otherwise, false.

**- List<MdItemMpKorWorks> Services**

Gets or sets the service list.

**Property-Value**

The service main work positions.

## 35. MdTmLinkedManual

### 35.1. Summary

Represents a technical manual which is linked from the maintenance part of the AuDaLib.

### 35.2. Detailed Module Documentation

#### 35.2.1. Properties

**- bool IsLocked**

Gets or sets a value indicating whether access to this linked manual is denied.

**Property-Value**

true if this linked manual is locked; otherwise, false.

**- int ManualId**

Gets or sets the id of the manual.

**Property-Value**

The manual id.

**- int QualCollId**

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. MdWorkPos

## 36.1. Summary

Represents a work position for maintenance data part of the AuDaLib which contains all necessary information for selecting a work position for calculation.

## 36.2. Detailed Module Documentation

### 36.2.1. Properties

- List<[MdExclWorkPos](#)> **ExclusiveWorkPositions**

Gets or sets a collection of exclusive work positions.

**Remarks**

This collection is only for your information and contains the values from which the main labour times work position are composed.

**Property-Value**

The exclusive work positions.

- **bool IsCompositeTime**

Gets or sets a value indicating whether the work time of this instance is a net work time.

**Property-Value**

true if this instance is composite time; otherwise, false.

- **bool IsLocked**

Gets or sets a value indicating whether access to this generic work position is denied.

**Property-Value**

true if this generic work position is locked; otherwise, false.

- **bool IsOnlyForReference**

Gets or sets a value indicating whether the work time of this instance is only for reference.

**Property-Value**

true if this instance is only for reference; otherwise, false.

- **bool IsTecRmiTime**

Gets or sets a value indicating whether the work time of this instance is defined by TecRMI.

**Property-Value**

true if the work time of this instance is adc time; otherwise, false.

- **int ItemMpld**

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.

**- KindOfWorkTimeData KindOfWorkTimeData**

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

**Property-Value**

The kind of work time data.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImage**

Gets or sets the image of the kind of repair.

**Property-Value**

The kind of repair image.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- List<MdOptExclWorkPos> OptionalExclusivePositions**

Gets or sets a collection of optional exclusive work positions. These are optional additional labour times work positions

which can only be selected in combination with its main labour times work position.

**Property-Value**

The optional exclusive positions.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualCollText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

**- int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work position id.

**- string WorkPosNo**

Gets or sets the number of the work position.

**Property-Value**

The work position number.

**- string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work position text.

**- decimal WorkTime**

Gets or sets the work time.

**Property-Value**

The work time.

## 37. MdWorkPosSuggestion

### 37.1. Summary

Represents a work position for maintenance data part of the AuDaLib which contains all necessary information for selecting a work position for calculation. Contains additionally suggested work positions related to a work position.

### 37.2. inheritdoc

### 37.3. Detailed Module Documentation

#### 37.3.1. Properties

**- List<MdExclWorkPos> ExclusiveWorkPositions**

Gets or sets a collection of exclusive work positions.

**Remarks**

This collection is only for your information and contains the values from which the main labour times work position are composed.

**Property-Value**

The exclusive work positions.

**- bool IsCompositeTime**

Gets or sets a value indicating whether the work time of this instance is a net work time.

**Property-Value**

true if this instance is composite time; otherwise, false.

**- bool IsLocked**

Gets or sets a value indicating whether access to this generic work position is denied.

**Property-Value**

true if this generic work position is locked; otherwise, false.

**- bool IsOnlyForReference**

Gets or sets a value indicating whether the work time of this instance is only for reference.

**Property-Value**

true if this instance is only for reference; otherwise, false.

**- bool IsTecRmiTime**

Gets or sets a value indicating whether the work time of this instance is defined by TecRMI.

**Property-Value**

true if the work time of this instance is adc time; otherwise, false.

**- int ItemMpld**

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.

**- [KindOfWorkTimeData](#) KindOfWorkTimeData**

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

**Property-Value**

The kind of work time data.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImage**

Gets or sets the image of the kind of repair.

**Property-Value**

The kind of repair image.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- List<MdOptExclWorkPos> OptionalExclusivePositions**

Gets or sets a collection of optional exclusive work positions. These are optional additional labour times work positions

which can only be selected in combination with its main labour times work position.

**Property-Value**

The optional exclusive positions.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

**- List<WorkPosData> SuggestedWorkPositions**

Gets or sets the suggested work positions.

**Property-Value**

The suggested work positions.

**- int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work position id.

**- string WorkPosNo**

Gets or sets the number of the work position.

**Property-Value**

The work position number.



**- string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work position text.

**- decimal WorkTime**

Gets or sets the work time.

**Property-Value**

The work time.

## 38. MdWorkPosWithQualifiers

### 38.1. Summary

Represents a work position for maintenance data part of the AuDaLib which contains all necessary information for selecting a work position for calculation.

### 38.2. Detailed Module Documentation

#### 38.2.1. Properties

**- List<MdExclWorkPos> ExclusiveWorkPositions**

Gets or sets a collection of exclusive work positions.

**Remarks**

This collection is only for your information and contains the values from which the main labour times work position are composed.

**Property-Value**

The exclusive work positions.

**- bool IsCompositeTime**

Gets or sets a value indicating whether the work time of this instance is a net work time.

**Property-Value**

true if this instance is composite time; otherwise, false.

**- bool IsLocked**

Gets or sets a value indicating whether access to this generic work position is denied.

**Property-Value**

true if this generic work position is locked; otherwise, false.

**- bool IsOnlyForReference**

Gets or sets a value indicating whether the work time of this instance is only for reference.

**Property-Value**

true if this instance is only for reference; otherwise, false.

**- bool IsTecRmiTime**

Gets or sets a value indicating whether the work time of this instance is defined by TecRMI.

**Property-Value**

true if the work time of this instance is adc time; otherwise, false.

**- int ItemMpld**

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.

**- [KindOfWorkTimeData](#) KindOfWorkTimeData**

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

**Property-Value**

The kind of work time data.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImage**

Gets or sets the image of the kind of repair.

**Property-Value**

The kind of repair image.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- List<[MdOptExclWorkPos](#)> OptionalExclusivePositions**

Gets or sets a collection of optional exclusive work positions. These are optional additional labour times work positions

which can only be selected in combination with its main labour times work position.

**Property-Value**

The optional exclusive positions.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

**- List<QualifierData> Qualifiers**

Gets or sets the collection qualifiers where the qualifier collection identifier is build up.

**Property-Value**

The individual qualifiers of the QualCollId.

**- int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work position id.

**- string WorkPosNo**

Gets or sets the number of the work position.

**Property-Value**

The work position number.

**- string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work position text.

**- decimal WorkTime**

Gets or sets the work time.

**Property-Value**

The work time.

## 39. OptHeaderValue

### 39.1. Summary

Class [RestRMI.Areas.Basket.Models.OptHeaderValue](#) contains two properties which can be used to add an addition information to generated HTML documents, e.g. the maintenance plan from the web service method `MaintenancePlanHtml(MaintenancePlanHtmlMsg)`. To display a phone number of example on the service plan set the property `RestRMI.Areas.Basket.Models.OptHeaderValue.KindOfHeaderValue` to `PhoneNo` and the property `RestRMI.Areas.Basket.Models.OptHeaderValue.HeaderValue` to the desired phone number. The possible values are the member of the [AuDaLib.Interface.ObjectModel.Common.KindOfOptionalHeaderValue](#) .

### 39.2. Example

```
var optHValue = new OptHeaderValue();
optHValue.KindOfHeaderValue = KindOfOptionalHeaderValue.PhoneNo;
optHValue.HeaderValue = "+49 7934 99299 - 0";
```

### 39.3. Detailed Module Documentation

#### 39.3.1. Properties

- **string HeaderValue**

Gets or sets the value for the kind that is passed through the property `KindOfHeaderValue`.

**Property-Value**

The header value.

- **[KindOfOptionalHeaderValue](#) KindOfHeaderValue**

Gets or sets the kind of header value which describes what kind of information is passed through the property `HeaderValue`. Possible values are the members of the enum `KindOfOptionalHeaderValue`.

**Property-Value**

The kind of header value.

## 40. PossibleCooGroupFilterParametersMsg

### 40.1. Summary

A maintenance possible coo group filter parameters message.

### 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.

- **KindOfVehicleEntityId** KindOfVehicleTreeId

Gets or sets the kind of vehicle tree id.

**Property-Value**

The kind of vehicle tree 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.

## 41. PossibleGearboxCodesMsg

### 41.1. Summary

A maintenance possible gearbox codes message.

### 41.2. Detailed Module Documentation

#### 41.2.1. Properties

- **string CountryCode**

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

**Property-Value**

The ISO country code.

- **KindOfVehicleEntityId** KindOfVehicleTreeId

Gets the kind of vehicle tree id.

**Property-Value**

The kind of vehicle tree 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.

## 42. PrintViewEditingMsg

### 42.1. Summary

contains two values to edit the print view of the MaintenancePlan.

## 42.2. Detailed Module Documentation

### 42.2.1. Properties

- **bool EditingValue**  
should the part be excluded or not
- **KindOfPrintViewEditingValue** KindOfPrintViewEditingKey  
wich part of the print view should be edited

## 43. QualifierData

### 43.1. Summary

Class **QualifierData** represents a single qualifier. Any qualifier collection is build up from such single qualifiers.

## 43.2. Detailed Module Documentation

### 43.2.1. Properties

- **int QualifierGroupId**  
Gets or sets the id of the qualifier group.  
**Property-Value**  
The qualifier group id.
- **string QualifierGroupName**  
Gets or sets the name of the qualifier group.  
**Property-Value**  
The name of the qualifier group.
- **int QualifierId**  
Gets or sets the id of the qualifier.  
**Property-Value**  
The qualifier id.
- **string QualifierText**  
Gets or sets the text of the qualifier.  
**Property-Value**  
The qualifier text.

## 44. ServiceProposalCooGroupsIncludingQualifiersMsg

### 44.1. Summary

Class [RestRMI.Areas.Md.Models.ServiceProposalCooGroupsIncludingQualifiersMsg](#) contains the properties which are necessary to call web service method

ServiceProposalCooGroupsIncludingQualifiers(ServiceProposalCooGroupsIncludingQualifiersMsg).

## 44.2. Detailed Module Documentation

### 44.2.1. Properties

- **string CountryCode**

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

**Property-Value**

The ISO country code.

- **List<CooGroupDefaultFilter> EquipmentFilter**

Gets or sets the equipment filter.

**Property-Value**

The equipment filter.

- **Nullable<Int32> EuropeanExhaustEmissionStandard**

Gets or sets the european exhaust emission standard.

**Property-Value**

The european exhaust emission standard.

- **Nullable<DateTime> InitialRegistrationDate**

Gets or sets the initial registration date.

**Property-Value**

The initial registration date.

- **Nullable<KindOfGearBoxCodes> KindOfGearBox**

Gets or sets the kind of gear box.

**Property-Value**

The kind of gear box.

- **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.

**- string Vin**

Gets or sets the vin.

**Property-Value**

The vin.

## 45. ServiceProposalCooGroupsMsg

### 45.1. Summary

A maintenance service proposal coo groups message.

### 45.2. Detailed Module Documentation

#### 45.2.1. Properties

**- string CountryCode**

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

**Property-Value**

The ISO country code.

**- List<CooGroupDefaultFilter> EquipmentFilter**

Gets or sets the equipment filter.

**Property-Value**

The equipment filter.

**- Nullable<Int32> EuropeanExhaustEmissionStandard**

Gets or sets the european exhaust emission standard.

**Property-Value**

The european exhaust emission standard.

**- Nullable<DateTime> InitialRegistrationDate**

Gets or sets the initial registration date.

**Property-Value**

The initial registration date.

**- Nullable<KindOfGearBoxCodes> KindOfGearBox**

Gets or sets the kind of gear box.

**Property-Value**

The kind of gear box.

**- string LanguageCode**

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

**Property-Value**



The ISO language code.

- **int Typeld**

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

**Property-Value**

The TecRMI type id.

- **string Vin**

Gets or sets the vin.

**Property-Value**

The vin.

## 46. ServiceProposalMilesMsg

### 46.1. Summary

Maintenance service proposal message (miles).

### 46.2. Detailed Module Documentation

#### 46.2.1. Properties

- **string ConsumerId**

Gets or sets the unique identifier for end user which receive the called data.

**Property-Value**

Unique end user identifier.

- **int CooGroupId**

Gets or sets the identifier of the coo group.

**Property-Value**

The identifier of the coo group.

- **string CountryCode**

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

**Property-Value**

The ISO country code.

- **int CurrentMileage**

Gets or sets the current mileage (in miles).

**Property-Value**

The current mileage (in miles).

**- DateTime InitialRegistrationDate**

Gets or sets the initial registration date.

**Property-Value**

The initial registration date.

**- KindOfVehicleEntityId KindOfVehicleTreeId**

Gets the identifier of the kind of vehicle tree.

**Property-Value**

The identifier of the kind of vehicle tree.

**- string LanguageCode**

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

**Property-Value**

The ISO language code.

**- int MdBodyQualColId**

Gets or sets the identifier of the md body qual col.

**Property-Value**

The identifier of the md body qual col.

**- 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.

## 47. ServiceProposalMsg

### 47.1. Summary

Maintenance service proposal message (kilometres).

### 47.2. Detailed Module Documentation

#### 47.2.1. Properties

**- string ConsumerId**

Gets or sets the unique identifier for end user which receive the called data.

**Property-Value**

Unique end user identifier.

**- int CooGroupId**

Gets or sets the identifier of the coo group.

**Property-Value**

The identifier of the coo group.

**- string CountryCode**

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

**Property-Value**

The ISO country code.

**- int CurrentMileage**

Gets or sets the current mileage (in kilometres).

**Property-Value**

The current mileage (in kilometres).

**- DateTime InitialRegistrationDate**

Gets or sets the initial registration date.

**Property-Value**

The initial registration date.

**- KindOfVehicleEntityId KindOfVehicleTreeId**

Gets the identifier of the kind of vehicle tree.

**Property-Value**

The identifier of the kind of vehicle tree.

**- string LanguageCode**

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

**Property-Value**

The ISO language code.

**- int MdBodyQualCollId**

Gets or sets the identifier of the md body qual col.

**Property-Value**

The identifier of the md body qual col.

**- 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.

## 48. SubGroupsMsg

## 48.1. Summary

Class [RestRMI.Areas.Md.Models.SubGroupsMsg](#) contains the properties which are necessary to call web service methods `SubGroups(SubGroupsMsg)`.

## 48.2. Detailed Module Documentation

### 48.2.1. Properties

- **int BodyQualCollId**

Gets or sets the body qualifier id which defines the vehicle construction.

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

**Property-Value**

The body qualifier id.

- **string 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 Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique.

The id can be fetched by using the ServiceVt web service.

**Property-Value**

The TecRMI type id.

## 49. VehicleHasMaintenanceMsg

### 49.1. Summary

Class [RestRMI.Areas.Md.Models.VehicleHasMaintenanceMsg](#) contains the properties which are necessary to call the web service module check methods.

### 49.2. Detailed Module Documentation

#### 49.2.1. 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 Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique.

The id can be fetched by using the ServiceVt web service.

**Property-Value**

The TecRMI type id.

## 50. VehicleHasMdServiceProposalMsg

### 50.1. Summary

Class [RestRMI.Areas.Md.Models.VehicleHasMdServiceProposalMsg](#) contains the properties which are necessary to call the web service module check methods.

### 50.2. Detailed Module Documentation

#### 50.2.1. 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.

## 51. WorkPosData

### 51.1. Summary

Represents work position data. This class forms a common base for the more specific work position data classes.

### 51.2. Detailed Module Documentation

#### 51.2.1. Properties

**- bool IsCompositeTime**

Gets or sets a value indicating whether the work time of this instance is a net work time.

**Property-Value**

true if this instance is composite time; otherwise, false.

**- bool IsOnlyForReference**

Gets or sets a value indicating whether the work time of this instance is only for reference.

**Property-Value**

true if this instance is only for reference; otherwise, false.

**- bool IsTecRmiTime**

Gets or sets a value indicating whether the work time of this instance is defined by TecRMI.

**Property-Value**

true if the work time of this instance is adc time; otherwise, false.

**- int ItemMpld**

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.

**- KindOfWorkTimeData KindOfWorkTimeData**

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

**Property-Value**

The kind of work time data.

**- int KorId**

Gets or sets the id of the kind of repair.

**Property-Value**

The kind of repair id.

**- string KorImage**

Gets or sets the image of the kind of repair.

**Property-Value**

The kind of repair image.

**- string KorText**

Gets or sets the text of the kind of repair.

**Property-Value**

The kind of repair text.

**- int QualCollId**

Gets or sets the id of the qualifier collection.

**Property-Value**

The qualifier collection id.

**- string QualColText**

Gets or sets the text of the qualifier collection.

**Property-Value**

The qualifier collection text.

**- int WorkId**

Gets or sets the id of the work position.

**Property-Value**

The work position id.

**- string WorkText**

Gets or sets the text of the work position.

**Property-Value**

The work position text.

**- decimal WorkTime**

Gets or sets the work time.

**Property-Value**

The work time.

## 52. WorksMsg

### 52.1. Summary

Class [RestRMI.Areas.Md.Models.WorksMsg](#) contains the properties which are necessary to call web service methods Works(WorksMsg).

### 52.2. Detailed Module Documentation

#### 52.2.1. Properties

**- int BodyQualCollId**

Gets or sets the body qualifier id which defines the vehicle construction.

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

**Property-Value**

The body qualifier id.

**- string 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.

**- int Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique.

The id can be fetched by using the ServiceVt web service.

**Property-Value**

The TecRMI type id.



## 53. WorkStepsIncludingQualifiersMsg

### 53.1. Summary

Class [RestRMI.Areas.Md.Models.WorkStepsIncludingQualifiersMsg](#) contains the properties which are necessary to call the web service methods `WorkStepsIncludingQualifiers(WorkStepsIncludingQualifiersMsg)`.

### 53.2. Detailed Module Documentation

#### 53.2.1. Properties

- **int BodyQualCollId**

Gets or sets the body qualifier id which defines the vehicle construction.

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

**Property-Value**

The body qualifier id.

- **string 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 ItemMplId**

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.

- **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.

- **int KorId**

Gets or sets the TecRMI kind of repair id.

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

**Property-Value**

The kind of repair 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.

## 54. WorkStepsMsg

### 54.1. Summary

Class [RestRMI.Areas.Md.Models.WorkStepsMsg](#) contains the properties which are necessary to call the web service methods `WorkSteps(WorkStepsMsg)`.

### 54.2. Detailed Module Documentation

#### 54.2.1. Properties

**- int BodyQualCollId**

Gets or sets the body qualifier id which defines the vehicle construction.

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

**Property-Value**

The body qualifier id.

**- string 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 ItemMplId**

Gets or sets the topic tree id.

**Property-Value**

The topic tree id.

**- 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.

**- int KorId**

Gets or sets the TecRMI kind of repair id.

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

**Property-Value**

The kind of repair 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 Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique.

The id can be fetched by using the ServiceVt web service.

**Property-Value**

The TecRMI type id.