

# Interface Description

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ServiceVt\_REST



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TecAlliance GmbH

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## Module Details

### 1. VehicleTreeController

#### 1.1. Sequence Of Calls

To build the TecRMI vehicle tree yourself, you should first call [MakeList](#) , which will return a list to you containing all necessary vehicle manufacturers (makes). After selecting a make from this list, you can call [Rangelist](#) and pass it the make id of your chosen make to get the model ranges belonging to this make. To get the types belonging to a selected model range, you call [TypeList](#) , passing it your range id. To view all the stored details of a particular type, you call [TypeDetails](#) passing it your type id.

If a filter is used, it has to be applied on all of the three layers (make, range and type). Possible filter values, including VIN filter, are the return values of the method [AddInfoKeys](#)

#### 1.2. The ClassIDs

Some methods requires a classID as parameter. Following values are possible: ClassID: 1

Represents car

ClassID: 2

Represents truck

ClassID: 3

Represents motorbike

ClassID: 4

Represents engine

ClassID: 5

Represents gearbox

ClassID: 6

Represents axle

ClassID: 7

Represents brakes

#### 1.3. Summary

Area [RestRMI.Areas.Vt.Controllers.VehicleTreeController](#) provides the web service methods for the part vehicle tree. Select here manufacturer, model range and then type of a vehicle.

#### 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

- **HttpContext RequestContext**

No description available

- **UrlHelper Url**

No description available

- **IPrincipal User**

No description available

## 1.4.2. Methods

- **IEnumerable<VtTypeModul> AvailableModules(AvailableModulesMsg input)**

Delivers the information about which kind of data exists for the given TecRMI type Id.

**Parameter**

input - Instance of the message class AvailableModulesMsg

**Returns**

The available modules.

- **IEnumerable<VtTypeDetail> TypeDetailByNatVehicleNo(TypeDetailByNatVehicleNoMsg input)**

Delivers a collection with all detailed information from the vehicle tree for the selected national vehicle ID and country in the given language.

**Parameter**

input - Instance of the message class TypeDetailByNatVehicleNoMsg

**Returns**

The type details.

- **int MakeIdForRangeld(MakeIdForRangeldMsg input)**

Delivers the TecRMI make id for a given TecRMI range id.

**Parameter**

input - Instance of the message class MakeIdForRangeldMsg

**Returns**

The TecRMI make id.

**- int MakeIdForTypeId(MakeIdForTypeIdMsg input)**

Delivers the TecRMI make id for a given TecRMI type id.

**Parameter**

input - Instance of the message class MakeIdForTypeIdMsg

**Returns**

The TecRMI make id.

**- int RangeIdForTypeId(RangeIdForTypeIdMsg input)**

Delivers the TecRMI range id for a given TecRMI type id.

**Parameter**

input - Instance of the message class RangeIdForTypeIdMsg

**Returns**

The TecRMI range id.

**- IEnumerable<AddInfoKey> AddInfoKeys(AddInfoKeysMsg input)**

Delivers a country specific list with all additional information fields for the vehicle tree.

**Parameter**

input - Instance of the message class AddInfoKeysMsg

**Returns**

The additional information keys.

**- IEnumerable<String> AddInfoKeyIdValues(AddInfoKeyIdValuesMsg input)**

Delivers a collection with all texts which are available for the selected addition info key id and given language.

**Parameter**

input - Instance of the message class AddInfoKeyIdValuesMsg

**Returns**

A collection of texts for the given addition info key.

**- VtAddInfoSecondaryCriteria SecondaryCriteriaAddInfoKeys(SecondaryCriteriaAddInfoKeysMsg**

**input)**

Returns the secondary criteria for truck VIN filter of the vehicle tree.

**Parameter**

input - Instance of the message class SecondaryCriteriaAddInfoKeysMsg

**Returns**

The secondary filter criteria for truck VIN search and a collection of possible filter values.

**- int AdcMakeldByTcdMakeld(AdcMakeldByTcdMakeldMsg input)**

Maps a TecDoc vehicle make id to the associated TecRMI make id.

**Parameter**

input - Instance of the message class AdcMakeldByTcdMakeldMsg

**Returns**

The associated TecRMI make id.

**- int AdcRangeldByTcdRangeld(AdcRangeldByTcdRangeldMsg input)**

Maps a TecDoc vehicle range id to the associated TecRMI range id.

**Parameter**

input - Instance of the message class AdcRangeldByTcdRangeldMsg

**Returns**

The associated TecRMI range id.

**- int AdcTypeldByTcdTypeAndClass(AdcTypeldByTcdTypeAndClassMsg input)**

Returns the TecRMI type Id for the given TecDoc Typeld and TecDoc ClassId.

**Remarks**

In case of referencing a TecDoc transporter to an TecRMI type id, the TecDoc class id has to be assigned as class id for cars, because the TecDoc type ids for transporters are taken from the number range of cars.

**Parameter**

input - Instance of the message class AdcTypeldByTcdTypeAndClassMsg

**Returns**

The TecRMI type id.

**- int TcdMakeldByAdcMakeld(TcdMakeldByAdcMakeldMsg input)**

Maps an TecRMI make id to the associated TecDoc vehicle make id.

**Parameter**

input - Instance of the message class TcdMakeIdByAdcMakeIdMsg

**Returns**

The associated TecDoc vehicle make id.

**- int TcdRangeIdByAdcRangeId(TcdRangeIdByAdcRangeIdMsg input)**

Maps an TecRMI vehicle range id to the associated TecDoc range id.

**Parameter**

input - Instance of the message class TcdRangeIdByAdcRangeIdMsg

**Returns**

The associated TecDoc range id.

**- VtTcdTypeClass TcdTypeAndClassByAdcTypeId(TcdTypeAndClassByAdcTypeIdMsg input)**

Returns the TecDoc type- and classId for the given TecRMI type Id.

**Remarks**

In case of referencing an TecRMI type id which describes a transporter at TecDoc, the TecDoc type id and class id for cars will be returned. The user has to check whether an entry for the combination of TecDoc type id and class id exists in his TecDoc vehicle tree. If a data record for this combination exists, it describes a car. If no data record exists for this combination, the user has to check whether a data record exists for the combination of TecDoc type id and transporter class id. When an entry for this combination exists, it describes a transporter.

**Parameter**

input - Instance of the message class TcdTypeAndClassByAdcTypeIdMsg

**Returns**

The TecDoc type id and class id.

**- bool VinFilterIsPossible(VtVinFilterIsPossibleMsg input)**

Vt vin filter is possible.

**Parameter**

input - Instance of the message class AvailableModulesMsg

**Returns**

True if it succeeds, false if it fails.

**- List<TcdKritNumberValue> TcdKritNumberValueByVinFilter(VtTcdKritNumberValueByVinFilterMsg input)**

Gets vt tcd krit number value by vin filter.

**Parameter**

input - Instance of the message class AvailableModulesMsg

**Returns**

The vt tcd krit number value by vin filter.

**- IEnumerable<VtMake> MakeList(MakeListMsg input)**

Delivers a country specific list with all vehicle makes for the given module. By using the filter functionality the result can further be restricted.

**Remarks**

Navigating the vehicle tree: At first the user selects the make (e.g. Audi). After selecting the make, only the ranges of this make will be returned in the tree. If the user selects the range (e.g. A4 (8EC)), only the types for this range will be returned. The user should not have the possibility after selecting the make Audi to select e.g. the range BOXSTER of the make Porsche. In order to achieve this, also always update your List<VtRange> and List<VtType> when the make and range selections have changed, in that order. Applying filters (KBA, Power, Type, Engine, Transmission, Axle, Year, etc.): It is important that selected filter parameters do not change during successive calls to GetVtMakeList, GetVtRangeList and GetVtTypeList. Otherwise, the resulting lists will be inconclusive.

**Parameter**

input - Instance of the message class MakeListMsg

**Returns**

The list of car manufactures.

**- IEnumerable<VtMakeTcd> MakeListTcd(MakeListMsg input)**

Delivers a country specific list with all vehicle makes for the given module. By using the filter functionality the result can further be restricted. Returns additionally the TecDoc make ids.

**Remarks**

Navigating the vehicle tree: At first the user selects the make (e.g. Audi). After selecting the make, only the ranges of this make will be returned in the tree. If the user selects the range (e.g. A4 (8EC)), only the types for this range will be returned. The user should not have the possibility after selecting the make Audi to select e.g. the range BOXSTER of the make Porsche. In order to achieve this, also always update your List<VtRange> and List<VtType> when the make and range selections have changed, in that order. Applying filters (KBA, Power, Type, Engine, Transmission, Axle, Year, etc.): It is important that selected filter parameters do not change during successive calls to GetVtMakeList, GetVtRangeList and GetVtTypeList. Otherwise, the resulting lists will be inconclusive.

**Parameter**



input - Instance of the message class MakeListMsg

**Returns**

The list of car manufactures.

**- IEnumerable<VtRange> RangeList(RangeListMsg input)**

Delivers a country specific list with all vehicle ranges for the given make id and module. By using the filter functionality the result can further be restricted.

**Parameter**

input - Instance of the message class RangeListMsg

**Returns**

The range list.

**- IEnumerable<VtRangeTcd> RangeListTcd(RangeListMsg input)**

Delivers a country specific list with all vehicle ranges for the given make id and module. By using the filter functionality the result can further be restricted. Returns additionally the TecDoc range Ids.

**Parameter**

input - Instance of the message class RangeListMsg

**Returns**

The range list.

**- IEnumerable<VtType> TypeList(TypeListMsg input)**

Delivers a country specific list with all vehicle types for the given range id and module. By using the filter functionality the result can further be restricted.

**Parameter**

input - Instance of the message class TypeListMsg

**Returns**

The type list.

**- IEnumerable<VtTypeTcd> TypeListTcd(TypeListMsg input)**

Delivers a country specific list with all vehicle types for the given range id and module. By using the filter functionality the result can further be restricted. Returns additionally the TecDoc KType or NType number.

**Parameter**

input - Instance of the message class TypeListMsg

**Returns**

The type list.

- **string TypeText(TypeTextMsg input)**

Delivers a country specific type text for the given typeId in the selected language.

**Parameter**

input - Instance of the message class TypeTextMsg

**Returns**

The type text.

- **IEnumerable<VtTypeDetail> TypeDetails(TypeDetailsMsg input)**

Delivers a collection with detailed information from the vehicle tree for the selected TecRMI type id and country in the given language.

**Parameter**

input - Instance of the message class TypeDetailsMsg

**Returns**

The type details.

- **List<AddInfoKeyFilterParameter> GetVinCheckFilterParameters(List<AddInfoKeyFilterParameter> filterValues)**

Gets the vin check filter parameters in this collection.

**Parameter**

filterValues - The filter values.

**Returns**

An enumerator that allows foreach to be used to process the vin check filter parameters in this collection.

## Object Model

### 1. AdcMakeIdByTcdMakeIdMsg

#### 1.1. Summary

Class [RestRMI.Areas.Vt.Models.AdcMakeIdByTcdMakeIdMsg](#) contains the properties which are necessary to call web service methods `AdcMakeIdByTcdMakeId(AdcMakeIdByTcdMakeIdMsg)`.

#### 1.2. Detailed Module Documentation

##### 1.2.1. Properties

- `int TcdMakeId`

Gets or sets the make id from TecDoc.

**Property-Value**

The TecDoc make id.

### 2. AdcRangeIdByTcdRangeIdMsg

#### 2.1. Summary

Class [RestRMI.Areas.Vt.Models.AdcRangeIdByTcdRangeIdMsg](#) contains the properties which are necessary to call web service methods `AdcRangeIdByTcdRangeId(AdcRangeIdByTcdRangeIdMsg)`.

#### 2.2. Detailed Module Documentation

##### 2.2.1. Properties

- `int TcdRangeId`

Gets or sets the range id from TecDoc.

**Property-Value**

The TecDoc range id.

### 3. AdcTypeIdByTcdTypeAndClassMsg

#### 3.1. Summary

Class [RestRMI.Areas.Vt.Models.AdcTypeIdByTcdTypeAndClassMsg](#) contains the properties which are necessary to call web service methods `AdcTypeIdByTcdTypeAndClass(AdcTypeIdByTcdTypeAndClassMsg)`.

#### 3.2. Detailed Module Documentation

##### 3.2.1. Properties

- `int ClassId`

Gets or sets the TecDoc class id.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes).

**Property-Value**

The class id.

**- int TcdTypeId**

Gets or sets the TecDoc type id.

**Property-Value**

The TCD type id.

## 4. AddInfoKey

### 4.1. Summary

Class **AddInfoKey** represents an additional information key for example a weight, a fuel type, an engine and so on.

### 4.2. Detailed Module Documentation

#### 4.2.1. Properties

**- int AddInfoKeyId**

Gets or sets the additional information key id. The id is negative if the additional information key represents a component.

**Property-Value**

The additional information key id.

**- string AddInfoKeyName**

Gets or sets the name of the additional information key.

**Property-Value**

The name of the additional information key.

**- string AddInfoKeyValueTypeName**

Gets the name of the type of the additional information key value.

The types are formatted as XML-Schema datatypes and possible types are xs:integer, xs:float and xs:string.

**Property-Value**

The type of the additional information key value.

**- int CountrySpecific**

Gets or sets a value indicating whether the additional information key is specific for a certain country.

**Property-Value**

true if the additional information key is specific for a certain country; otherwise, false.

**- Nullable<Decimal> FilterRange**

Gets or sets the filter range. When filtering vehicles by additional information keys of numeric types, not only vehicles of the exact input value are returned but also vehicles for which the input value differs by the filter range distance.

**Property-Value**

The filter range.

**- bool IsAllowedForAllClasses**

Gets or sets a value indicating whether this additional information key is allowed for all classes.

**Property-Value**

true if it is allowed for all classes; otherwise, false.

**- bool IsAllowedMultiple**

Gets or sets a value indicating whether a vehicle is allowed to have multiple additional information keys of the same id.

**Property-Value**

true if a vehicle is allowed to have multiple additional information keys of the same id; otherwise, false.

## 5. AddInfoKeyFilterParameter

### 5.1. Summary

Class **AddInfoKeyFilterParameter** represents an additional information key filter parameter. This class is used in order to filter vehicles and components by additional information keys.

### 5.2. Detailed Module Documentation

#### 5.2.1. Properties

**- string AddInfoKeyFilterValue**

Gets or sets the additional information key filter value.

**Property-Value**

The additional information key filter value.

**- int AddInfoKeyId**

Gets or sets the additional information key id. The id is negative if the additional information key represents a component.

**Remarks**

List of possible AddInfoKeyIds could be called with method `GetVtAddInfoKeys(...)`. In addition to the AddInfoKeyIds returned from this method could be used AddInfoKeyId "-2" for filtering the vehicle tree for all vehicle build in the given year.

**Property-Value**

The additional information key id.

## 6. AddInfoKeyIdValuesMsg

### 6.1. Summary

Class [RestRMI.Areas.Vt.Models.AddInfoKeyIdValuesMsg](#) contains the properties which are necessary to call the web service methods `AddInfoKeyIdValues(GetVtAddInfoKeyIdValuesMsg)">GetVtAddInfoKeyIdValues(...)`.

### 6.2. Detailed Module Documentation

#### 6.2.1. Properties

- **int AddInfoKeyId**

Gets or sets the id of the additional information key whose values should be returned from the method `AddInfoKeyIdValues(GetVtAddInfoKeyIdValuesMsg)`.

The possible id can be fetched by a calling the web service method `AddInfoKeys(GetVtAddInfoKeysMsg)`.

**Property-Value**

The filter after additional information.

- **string LanguageCode**

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

**Property-Value**

The ISO language code.

## 7. AddInfoKeysMsg

### 7.1. Summary

Class [RestRMI.Areas.Vt.Models.AddInfoKeysMsg](#) contains the properties which are necessary to call web service method `AddInfoKeys(GetVtAddInfoKeysMsg)`.

### 7.2. Detailed Module Documentation

#### 7.2.1. Properties

- **Nullable<Int32> ClassId**

Gets or sets the class id.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes)

**Property-Value**

The class 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.

## 8. AvailableModulesMsg

### 8.1. Summary

Class [RestRMI.Areas.Vt.Models.AvailableModulesMsg](#) contains the properties which are necessary to call web service methods AvailableModules(AvailableModulesMsg).

### 8.2. Detailed Module Documentation

#### 8.2.1. Properties

**- string CountryCode**

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

**Property-Value**

The ISO country code.

**- int 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.

## 9. MakeldForRangeldMsg

### 9.1. Summary

Class [RestRMI.Areas.Vt.Models.MakeldForRangeldMsg](#) contains the properties which are necessary to call web service methods MakeldForRangeld(MakeldForRangeldMsg).

### 9.2. Detailed Module Documentation

#### 9.2.1. Properties

**- int Rangeld**

Gets or sets the TecRMI range id which identifies a model range of a car manufacturer.

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

**Property-Value**

The TecRMI range id.

## 10. MakeldForTypeldMsg

### 10.1. Summary

Class [RestRMI.Areas.Vt.Models.MakeldForTypeldMsg](#) contains the properties which are necessary to call web service methods MakeldForTypeld(MakeldForTypeldMsg).

### 10.2. Detailed Module Documentation

#### 10.2.1. Properties

**- 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.

## 11. MakeListMsg

### 11.1. Summary

Class [RestRMI.Areas.Vt.Models.MakeListMsg](#) contains the properties which are necessary to call web service methods MakeList(MakeListMsg).

### 11.2. Detailed Module Documentation

#### 11.2.1. Properties

**- List<[AddInfoKeyFilterParameter](#)> AddInfoKeyFilter**

Gets or sets the filter after additional information like fuel typ, national vehicle number etc.

**Property-Value**

The filter after additional information.

**- Nullable<Int32> ComponentTypeldFilter**

Gets or sets the component type id filter. Passing null means no component type id filtering.

**Property-Value**

The component type id filter.

**- 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.

- **VtModulFilter ModuleFilter**

Gets or sets the module filter.

**Remarks**

Possible values are: None No module filtering AdOnly vehicles which have data in the adjustment data module. CooOnly vehicles which have new data in the cost of ownership module since the last database update. Coo NewOnly vehicles which have data in the new cost of ownership module. DiOnly vehicles which have data in the diagnose module. CtrlOnly vehicles which have data in the control module. LtOnly vehicles which have data in the labour times module. MdOnly vehicles which have data in the maintenance data module. SosOnly vehicles which have data in the Sos module. TmOnly vehicles which have data in the technical manuals module. TdOnly vehicles which have data in the tyre data module. WdOnly vehicles which have data in the wiring data module.

**Property-Value**

The module filter.

- **string RangeNameFilter**

Gets or sets the filter for the vehicle range names. An empty string means no range filtering.

**Property-Value**

The filter for the range names.

- **bool ShowBike**

Gets or sets a value indicating whether motorbikes are included in the result.

**Property-Value**

true if motorbikes should be included in the result; otherwise, false.

- **bool ShowCar**

Gets or sets a value indicating whether cars are included in the result.

**Property-Value**

true if cars should be included in the result; otherwise, false.

- **bool ShowTruck**

Gets or sets a value indicating whether trucks and light commercial vehicles are included in the result.

**Property-Value**

true if trucks and light commercial vehicles should be included in the result; otherwise, false.

**- string TypeNameFilter**

Gets or sets the filter for the vehicle type names. An empty string means no type filtering.

**Property-Value**

The filter for the type names.

## 12. RangeldForTypeldMsg

### 12.1. Summary

Class [RestRMI.Areas.Vt.Models.RangeldForTypeldMsg](#) contains the properties which are necessary to call web service methods `RangeldForTypeld(RangeldForTypeldMsg)`.

### 12.2. Detailed Module Documentation

#### 12.2.1. Properties

**- 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.

## 13. RangelistMsg

### 13.1. Summary

Class [RestRMI.Areas.Vt.Models.RangelistMsg](#) contains the properties which are necessary to call web service methods `Rangelist(RangelistMsg)`.

### 13.2. Detailed Module Documentation

#### 13.2.1. Properties

**- List<[AddInfoKeyFilterParameter](#)> AddInfoKeyFilter**

Gets or sets the filter after additional information like manufacturer id, fuel typ, axle configuration etc.

**Property-Value**

The filter after additional information.

**- Nullable<Int32> ComponentTypeldFilter**

Gets or sets the component type id filter. Passing null means no component type id filtering.

**Property-Value**

The component type id filter.

**- 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 MakeId**

Gets or sets the TecRMI make id which identifies a car manufacturer.

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

**Property-Value**

The TecRMI make id.

**- VtModulFilter ModuleFilter**

Gets or sets the module filter.

**Remarks**

Possible values are: NoneNo module filteringAdOnly vehicles which have data in the Ad module.CooOnly vehicles which have new data in the Coo module since the last database update.Coo NewOnly vehicles which have data in the Coo module.DiOnly vehicles which have data in the Di module.CtrlOnly vehicles which have data in the Ctrl module.LtOnly vehicles which have data in the Lt module.MdOnly vehicles which have data in the Md module.SosOnly vehicles which have data in the Sos module.TmOnly vehicles which have data in the Tm module.TdOnly vehicles which have data in the Td module.WdOnly vehicles which have data in the Wd module.

**Property-Value**

The module filter.

**- string RangeNameFilter**

Gets or sets the filter for the vehicle range names. An empty string means no range filtering.

**Property-Value**

The filter for the range names.

**- bool ShowBike**

Gets or sets a value indicating whether motorbikes are included in the result.

**Property-Value**

true if motorbikes should be included in the result; otherwise, false.

**- bool ShowCar**

Gets or sets a value indicating whether cars are included in the result.

**Property-Value**

true if cars should be included in the result; otherwise, false.

**- bool ShowTruck**

Gets or sets a value indicating whether trucks and light commercial vehicles are included in the result.

**Property-Value**

true if trucks and light commercial vehicles should be included in the result; otherwise, false.

**- string TypeNameFilter**

Gets or sets the filter for the vehicle type names. An empty string means no type filtering.

**Property-Value**

The filter for the type names.

## 14. SecondaryCriteriaAddInfoKeysMsg

### 14.1. Summary

Class [RestRMI.Areas.Vt.Models.SecondaryCriteriaAddInfoKeysMsg](#) contains the properties which are necessary to call web service method `SecondaryCriteriaAddInfoKeys(GetVtSecondaryCriteriaAddInfoKeysMsg)`.

### 14.2. Detailed Module Documentation

#### 14.2.1. Properties

**- int ClassId**

Gets or sets the TecDoc class id.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes)

**Property-Value**

The class 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 MakeId**

Gets or sets the TecRMI make id which identifies a car manufacturer.

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

**Property-Value**

The TecRMI make id.

**- string Vin**

The vehicle identification number

**Property-Value**

The vin.

## 15. TcdKritNumberValue

### 15.1. Summary

Class represent a TecDoc criteria number and value.

### 15.2. Detailed Module Documentation

#### 15.2.1. Properties

**- int KritNo**

Gets or sets the TecDoc criteria number.

**Property-Value**

The TecDoc criteria number.

**- string KritValue**

Gets or sets the TecDoc kriteria value.

**Property-Value**

The TecDoc kriteria value. If this value contains a semicolon, the text before the semicolon links to the ID of a TecDoc master data table. The text behind the semicolon represents the ID of an entry out of the given table.

## 16. TcdMakeldByAdcMakeldMsg

### 16.1. Summary

Class [RestRMI.Areas.Vt.Models.TcdMakeldByAdcMakeldMsg](#) contains the properties which are necessary to call web service methods TcdMakeldByAdcMakeld(TcdMakeldByAdcMakeldMsg).

### 16.2. Detailed Module Documentation

#### 16.2.1. Properties

**- int Makeld**

Gets or sets the TecRMI make id which identifies a car manufacturer.

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

**Property-Value**

The TecRMI make id.

## 17. TcdRangeldByAdcRangeldMsg

### 17.1. Summary

Class [RestRMI.Areas.Vt.Models.TcdRangeldByAdcRangeldMsg](#) contains the properties which are necessary to call web service methods `TcdRangeldByAdcRangeld(TcdRangeldByAdcRangeldMsg)`.

### 17.2. Detailed Module Documentation

#### 17.2.1. Properties

- **int Rangeld**

Gets or sets the TecRMI range id which identifies a model range of a car manufacturer.

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

**Property-Value**

The TecRMI range id.

## 18. TcdTypeAndClassByAdcTypeIdMsg

### 18.1. Summary

Class [RestRMI.Areas.Vt.Models.TcdTypeAndClassByAdcTypeIdMsg](#) contains the properties which are necessary to call web service methods `TcdTypeAndClassByAdcTypeId(TcdTypeAndClassByAdcTypeIdMsg)`.

### 18.2. Detailed Module Documentation

#### 18.2.1. Properties

- **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.

## 19. TypeDetailByNatVehicleNoMsg

### 19.1. Summary

Class [RestRMI.Areas.Vt.Models.TypeDetailByNatVehicleNoMsg](#) contains the properties which are necessary to call the web service methods `TypeDetailByNatVehicleNo(GetVtTypeDetailByNatVehicleNoMsg)`.

### 19.2. Detailed Module Documentation

#### 19.2.1. 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.

- **string NatVehicleNo**

Gets or sets the national vehicle identifier like swiss type no or the identifier form the german federal motor transport authority (KBANr) to search for.

**Property-Value**

The national vehicle number.

## 20. TypeDetailsMsg

### 20.1. Summary

Class [RestRMI.Areas.Vt.Models.TypeDetailsMsg](#) contains the properties which are necessary to call the web service methods `TypeDetails(TypeDetailsMsg)`.

## 20.2. Detailed Module Documentation

### 20.2.1. Properties

- **List<Int32> AdItemMpldsAsAddInfoKey**

Gets or sets a static collection of item mount positions from adjustment data (Ad) whose values will be returned in the list of additional information for the given vehicle too.

**Property-Value**

A collection of item mount positions ids.

- **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.

## 21. TypeListMsg

### 21.1. Summary

Class [RestRMI.Areas.Vt.Models.TypeListMsg](#) contains the properties which are necessary to call web service methods `TypeList(TypeListMsg)`.

### 21.2. Detailed Module Documentation

#### 21.2.1. Properties

- **List<[AddInfoKeyFilterParameter](#)> AddInfoKeyFilter**

Gets or sets the filter after additional information like manufacturer id, fuel typ, axle configuration etc.

**Property-Value**

The filter after additional information.

- **Nullable<Int32> ComponentTypeIdFilter**

Gets or sets the component type id filter. Passing null means no component type id filtering.

**Property-Value**

The component type id filter.

- **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.

- **[VtModulFilter](#) ModuleFilter**

Gets or sets the filter for modules.

**Remarks**

Possible values are: NoneNo module filteringAdOnly vehicles which have data in the Ad module.CooOnly vehicles which have new data in the Coo module since the last database update.Coo NewOnly vehicles which have data in the Coo module.DiOnly vehicles which have data in the Di module.CtrlOnly vehicles which have data in the Ctrl module.LtOnly vehicles which have data in the Lt module.MdOnly vehicles which have data in the Md module.SosOnly vehicles which have data in the Sos module.TmOnly vehicles which have data in the



Tm module. TdOnly vehicles which have data in the Td module. WdOnly vehicles which have data in the Wd module.

**Property-Value**

The module filter.

**- int Rangeld**

Gets or sets the TecRMI range id which identifies a model range of a car manufacturer.

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

**Property-Value**

The TecRMI range id.

**- bool ShowBike**

Gets or sets a value indicating whether motorbikes are included in the result.

**Property-Value**

true if motorbikes should be included in the result; otherwise, false.

**- bool ShowCar**

Gets or sets a value indicating whether cars are included in the result.

**Property-Value**

true if cars should be included in the result; otherwise, false.

**- bool ShowTruck**

Gets or sets a value indicating whether trucks and light commercial vehicles are included in the result.

**Property-Value**

true if trucks and light commercial vehicles should be included in the result; otherwise, false.

**- string TypeNameFilter**

Gets or sets the filter for the vehicle type names. An empty string means no type filtering.

**Property-Value**

The filter for the type names.

## 22. TypeTextMsg

### 22.1. Summary

Class [RestRMI.Areas.Vt.Models.TypeTextMsg](#) contains the properties which are necessary to call the web service methods `TypeText(TypeTextMsg)`.

### 22.2. Detailed Module Documentation

#### 22.2.1. Properties

**- List<Int32> AddInfoKeyForTypeText**

Gets or sets a collection of ids of the additional information keys which values should be display in the result type text. Passing null will add the value for kW to the type text.

The ids can be fetched by calling the web method AddInfoKeys(AddInfoKeysMsg)

**Property-Value**

A collection of the additional information added to the type text.

**- 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.

## 23. VtAddInfoSecondaryCriteria

### 23.1. Summary

Specifies the secondary filter criteria for track VIN filter

### 23.2. Detailed Module Documentation

#### 23.2.1. Properties

**- int AddInfoKeyId**

Gets or sets the id of the additional information key.

**Property-Value**

The additional info key id.

**- List<String> AddInfoKeys**

Gets or sets a collection of the additional information keys.

**Property-Value**

The additional info keys.

**- string AddInfoName**

Gets or sets the name of the additional information.

**Property-Value**

The name of the additional info.

**- int ClassId**

Gets or sets the id of the class.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike).

**Property-Value**

The class id.

**- int MakeId**

Gets or sets the id of the manufacturer.

**Property-Value**

The make id.

## 24. VtKindOfAdditionalDetail

### 24.1. Summary

The type details of a vehicle are collected from different sources. This enumeration specifies the kinds of additional details in the vehicle tree.

### 24.2. Detailed Module Documentation

#### 24.2.1. Enums

**- AddInfoKey**

The additional detail is an additional information key.

**- Component**

The additional detail is a component.

**- AdValue**

The additional detail is an adjustment data (Ad) value.

## 25. VtMake

### 25.1. Summary

Class **VtMake** represents a vehicle manufacturer (make). In the vehicle tree hierarchy, makes are on the topmost level.

## 25.2. Detailed Module Documentation

### 25.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this vehicle manufacturer. 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 vehicle manufacturer is denied.

**Property-Value**

true if this make is locked; otherwise, false.

- **int MakeId**

Gets or sets the id of the vehicle manufacturer.

**Property-Value**

The make id.

- **string MakeName**

Gets or sets the name of the vehicle manufacturer.

**Property-Value**

The name of the make.

## 26. VtMakeTcd

### 26.1. Summary

Class **VtMakeTcd** represents a vehicle manufacturer (make). In the vehicle tree hierarchy, makes are on the topmost level.

## 26.2. Detailed Module Documentation

### 26.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this vehicle manufacturer. 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 vehicle manufacturer is denied.

**Property-Value**

true if this make is locked; otherwise, false.

- **int Makeld**

Gets or sets the id of the vehicle manufacturer.

**Property-Value**

The make id.

- **string MakeName**

Gets or sets the name of the vehicle manufacturer.

**Property-Value**

The name of the make.

- **Nullable<Int32> TcdMakeld**

Gets or sets the TecDoc id of the vehicle manufacturer.

**Property-Value**

The Tecdoc make id.

## 27. VtModulFilter

### 27.1. Summary

Specifies the module filter for the vehicle tree. When querying vehicles only those vehicle are returned for which data exists in the filtered module.

### 27.2. Detailed Module Documentation

#### 27.2.1. Enums

- **None**

No module filter is set.

- **Ad**

The filter for module adjustment data (Ad) is set.

- **Coo**

The filter for module cost of ownership (Coo) is set.

- **CooNew**

The filter for the module new cost of ownership (COO-New) is set.

- **Ctrl**

The filter for module control (Ctrl) is set.

- **Di**

The filter for module diagnose (Di) is set.

- **Lt**

The filter for module labour times (Lt) is set.

- **Md**  
The filter for the module maintenance data (Md) is set.
- **Sos**  
The filter for the module Sos is set.
- **Tm**  
The filter for the module technical manuals (Tm) is set.
- **Td**  
The filter for the module tyre data (Td) is set.
- **Wd**  
The filter for the module wiring data (Wd) is set.
- **Notes**  
The filter for the module TecNotes is set.
- **Cwd**  
The filter for the module comfort wiring data (CWD) is set.
- **Fr**  
The filter for the module fuse and relays (Fr) is set.
- **Pp**  
The filter for the module component location (Pp) is set.
- **Bg**  
The filter for the module graphical selection (Bg) is set.
- **VIN**  
The filter for the module vin filter is set.
- **Paint**  
An enum constant representing the paint option.
- **All**  
An enum constant representing all modules are allowed.

## 28. VtRange

### 28.1. Summary

Represents a vehicle range. In the vehicle tree hierarchy, ranges are children of makes. Each range belongs to exactly one make.

### 28.2. Detailed Module Documentation

#### 28.2.1. Properties

- **int ClassId**  
Gets or sets the id of the class.  
**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes)

**Property-Value**

The class id.

**- bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this vehicle range.

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 vehicle range is denied.

**Property-Value**

true if this range is locked; otherwise, false.

**- int Rangeld**

Gets or sets the id of the vehicle model range.

**Property-Value**

The range id.

**- string RangeName**

Gets or sets the name of the range.

**Property-Value**

The name of the range.

## 29. VtRangeTcd

### 29.1. Summary

Represents a vehicle range. In the vehicle tree hierarchy, ranges are children of makes. Each range belongs to exactly one make.

### 29.2. Detailed Module Documentation

#### 29.2.1. Properties

**- int ClassId**

Gets or sets the id of the class.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes)

**Property-Value**

The class id.

**- bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this vehicle range.

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 vehicle range is denied.

**Property-Value**

true if this range is locked; otherwise, false.

**- int Rangeld**

Gets or sets the id of the vehicle model range.

**Property-Value**

The range id.

**- string RangeName**

Gets or sets the name of the range.

**Property-Value**

The name of the range.

**- Nullable<Int32> TcdRangeld**

Gets or sets the TecDoc id of the vehicle model range.

**Property-Value**

The range id.

## 30. VtTcdKritNumberValueByVinFilterMsg

### 30.1. Summary

A vt tcd krit number value by vin filter message.

### 30.2. Detailed Module Documentation

#### 30.2.1. 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.

- **string secondaryCriteria**

Gets or sets the secondary vehicle search parameter.

**Property-Value**

The secondary criteria.

- **int Typeld**

Gets or sets the identifier of the vehicle tree.

**Property-Value**

The identifier of the vehicle tree.

- **string Vin**

The vehicle identification number.

**Property-Value**

The vin.

## 31. VtTcdTypeClass

### 31.1. Summary

Represents a TecDoc type and a TecDoc class for the vehicle tree.

### 31.2. Detailed Module Documentation

#### 31.2.1. Properties

- **int TcdClassId**

Gets or sets the TecDoc class id.

**Property-Value**

The TecDoc class id.

- **int TcdTypeld**

Gets or sets the TecDoc type id.

**Property-Value**

The TecDoc type id.

## 32. VtType

### 32.1. Summary

Class **VtType** represents a vehicle type. In the vehicle tree hierarchy, types are children of ranges. Each type

belongs to exactly one range.

## 32.2. Detailed Module Documentation

### 32.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this vehicle type.

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 type is denied.

**Property-Value**

true if this type is locked; otherwise, false.

- **List<VtTypeAdditionalDetail> TypeDetails**

Gets or sets a collection of additional details for this type.

**Property-Value**

The type details.

- **int TypeId**

Gets or sets the id of the vehicle type.

**Property-Value**

The type id.

- **string TypeName**

Gets or sets the name of the type.

**Property-Value**

The type name.

## 33. VtTypeAdditionalDetail

### 33.1. Summary

Class **VtTypeAdditionalDetail** represents an additional detail for a vehicle type.

## 33.2. Detailed Module Documentation

### 33.2.1. Properties

- **int AddInfoKeyId**

Gets or sets the additional information key id.

The id is negative if the additional information key represents a component.

**Property-Value**

The additional information key id.

**- string AddInfoKeyName**

Gets or sets the name of the additional information key.

**Property-Value**

The additional information key name.

**- string AddInfoKeyValue**

Gets or sets the value for this additional information key.

**Property-Value**

The additional information key value.

**- [VtKindOfAdditionalDetail](#) KindOfAdditionalDetail**

Gets or sets the kind of additional detail.

**Property-Value**

The kind of additional detail.

## 34. VtTypeDetail

### 34.1. Summary

Represents a type detail for the vehicle tree. All levels of the vehicle tree are present. Furthermore, a list of additional type details is available.

### 34.2. Detailed Module Documentation

#### 34.2.1. Properties

**- int ClassId**

Gets or sets the id of the class.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes)

**Property-Value**

The class id.

**- bool IsLocked**

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

**Property-Value**

true if this type is locked; otherwise, false.

**- int MakeId**

Gets or sets the id of the manufacturer.

**Property-Value**

The make id.

**- string MakeName**

Gets or sets the name of the manufacturer.

**Property-Value**

The name of the make.

**- int Rangeld**

Gets or sets the id of the range.

**Property-Value**

The range id.

**- string RangeName**

Gets or sets the name of the range.

**Property-Value**

The name of the range.

**- bool ShowAsBike**

Gets or sets a value indicating whether this type is a bike.

**Property-Value**

true if this type is a bike; otherwise, false.

**- bool ShowAsCar**

Gets or sets a value indicating whether this type is a car.

**Property-Value**

true if this type is a car; otherwise, false.

**- bool ShowAsTruck**

Gets or sets a value indicating whether this type is a truck.

**Property-Value**

true if this type is a truck; otherwise, false.

**- Nullable<Int32> TcdMakeId**

Gets or sets the TecDoc make id.

**Property-Value**

The TecDoc make id.

**- Nullable<Int32> TcdRangeld**

Gets or sets the TecDoc range id.

**Property-Value**

The TecDoc range id.

- **Nullable<Int32> TcdTypeId**

Gets or sets the TecDoc type id.

**Property-Value**

The TecDoc type id.

- **List<VtTypeAdditionalDetail> TypeDetails**

Gets or sets a collection of additional type details for this vehicle.

**Property-Value**

The type details.

- **int TypeId**

Gets or sets the id of the type.

**Property-Value**

The type id.

- **string TypeName**

Gets or sets the name of the type.

**Property-Value**

The name of the type.

## 35. VtTypeModul

### 35.1. Summary

Class **VtTypeModul** represents the availability of module data for a given type.

### 35.2. Detailed Module Documentation

#### 35.2.1. Properties

- **bool AdAvailable**

Gets or sets a value indicating whether data for adjustment data (Ad) is available.

**Property-Value**

true if data for Ad is available; otherwise, false.

- **bool BgAvailable**

Gets or sets a value indicating whether data for body graphics (Bg) is available.

**Property-Value**

true if data for Bg is available; otherwise, false.

**- bool CooAvailable**

Gets or sets a value indicating whether data for cost of ownership (Coo) is available.

**Property-Value**

true if data for Coo is available; otherwise, false.

**- bool CWDAvailable**

Gets or sets a value indicating whether data for comfort wiring diagrams (CWD) is available.

**Property-Value**

true if cwd available, false if not.

**- bool DiAvailable**

Gets or sets a value indicating whether data for diagnose (Di) is available.

**Property-Value**

true if data for Di is available; otherwise, false.

**- bool FrAvailable**

Gets or sets a value indicating whether data for fuse and relays (Fr) is available.

**Property-Value**

true if data for Fr is available; otherwise, false.

**- bool LtAvailable**

Gets or sets a value indicating whether data for labour times (Lt) is available.

**Property-Value**

true if data for Lt is available; otherwise, false.

**- bool MdAvailable**

Gets or sets a value indicating whether data for maintenance data (Md) is available.

**Property-Value**

true if data for Md is available; otherwise, false.

**- bool MpAvailable**

Gets or sets a value indicating whether data for mount position (Mp) is available.

**Property-Value**

true if data for Mp is available; otherwise, false.

**- bool SosAvailable**

Gets or sets a value indicating whether data for Sos is available.

**Property-Value**

true if data for SosS is available; otherwise, false.

**- bool TdAvailable**

Gets or sets a value indicating whether data for tyre data (Td) is available.

**Property-Value**

true if data for Td is available; otherwise, false.

**- bool TmAvailable**

Gets or sets a value indicating whether data for technical manuals (Tm) is available.

**Property-Value**

true if data for Tm is available; otherwise, false.

**- int Typed**

Gets or sets the id of the type.

**Property-Value**

The type id.

**- bool WdAvailable**

Gets or sets a value indicating whether data for wiring data (Wd) is available.

**Property-Value**

true if data for Wd is available; otherwise, false.

## 36. VtTypeTcd

### 36.1. Summary

Class **VtType** represents a vehicle type. In the vehicle tree hierarchy, types are children of ranges. Each type belongs to exactly one range.

### 36.2. Detailed Module Documentation

#### 36.2.1. Properties

**- int ClassId**

Gets or sets the id of the class.

**Remarks**

Possible values are: 1 (car), 2 (truck), 3 (motorbike), 4 (engine), 5 (gearbox), 6 (axle), 7 (brakes)

**Property-Value**

The class id.

**- bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this vehicle type.

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 type is denied.

**Property-Value**

true if this type is locked; otherwise, false.

**- Nullable<Int32> TcdTypeId**

Gets or sets the TecDoc id of the vehicle type.

**Property-Value**

The type id.

**- List<VtTypeAdditionalDetail> TypeDetails**

Gets or sets a collection of additional details for this type.

**Property-Value**

The type details.

**- int TypeId**

Gets or sets the id of the vehicle type.

**Property-Value**

The type id.

**- string TypeName**

Gets or sets the name of the type.

**Property-Value**

The type name.

## 37. VtVinFilterIsPossibleMsg

### 37.1. Summary

(Serializable)a vt vin filter is possible message.

### 37.2. Detailed Module Documentation

#### 37.2.1. 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.

**- string Vin**

Gets or sets the vin.

**Property-Value**

The vin.