

Interface Description

ServiceVt_SOAP



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Module Details

1. ServiceVt

1.1. General Remarks

The webservice methods uses message classes as parameter value. All these classes are derived from the base class `AisService._40.Messages.BaseMsg` and contains properties for the data which are necessary for calling the web service method. To calling a method create an instance of their message class, set the necessary data to the message class properties and pass it throw the web service method.

All methods require the "**CompanyName**", "**UserName**" and "**Password**" properties, containing the application-specific access parameters.

Some methods require the `LanguageCode` properties, a 2-letter message internationalization language code as defined by ISO 639-1. All text messages will be returned in the defined language. Only language codes returned by **GetLanguages(...)** in the TecRMI common webservice are valid.

Some methods require the `CountryCode` properties, a 2-letter data internationalization country code as defined by ISO 3166-1. All application data will be returned as it is available for this country. Only county codes returned by **GetCountries(...)** in the TecRMI common webservice are valid.

Some methods require the `ConsumerId` property. To this a unique value, which identifiers the customers users which uses the TecRMI webservice by the customers application has to be passed. The length of the **ConsumerId** property value is restricted to 50 characters and is used for access control and billing.

All methods send an error message if an exception occurred or the access to the web service was denied.

All methods that are documented to return a list return an array instead.

Data types with a `?`, e.g. `int?`, are null able data types. Take a look at the WSDL for further information.

1.2. Web service URL's

web service URL:

<https://rmi-services.tecalliance.net/soap/ServiceVt.asmx>

URL of WSDL file:

<https://rmi-services.tecalliance.net/soap/ServiceVt.asmx?wsdl>

1.3. Sequence Of Calls

To build the TecRMI vehicle tree yourself, you should first call [GetVtMakeList](#) , which will return a list to you containing all necessary vehicle manufacturers (makes). After selecting a make from this list, you can call [GetVtRangeList](#) 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 [GetVtTypeList](#) , passing it your range id. To view all the stored details of a particular type, you call `GetVtTypeDetails` 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 [GetVtAddInfoKeys](#)

1.4. 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

1.5. Summary

Class ServiceVt provides the web service methods for the part vehicle tree.

1.6. Detailed Module Documentation

1.6.1. Methods

- List<AddInfoKey> GetVtAddInfoKeys([GetVtAddInfoKeysMsg](#) input)

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

Parameter

input - Instance of the message class GetVtAddInfoKeysMsg

Returns

The additional information keys.

- List<String> GetVtAddInfoKeyIdValues([GetVtAddInfoKeyIdValuesMsg](#) 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 GetVtAddInfoKeyIdValuesMsg

Returns

A collection of texts for the given addition info key.

- **VtAddInfoSecondaryCriteria** **GetVtSecondaryCriteriaAddInfoKeys(**
GetVtSecondaryCriteriaAddInfoKeysMsg input)

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

Parameter

input - Instance of the message class GetVtSecondaryCriteriaAddInfoKeysMsg

Returns

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

- **bool** **GetVtVinFilterIsPossible(****GetVtVinFilterIsPossibleMsg** input)

Checks if vehicle tree could be filtered by the given VIN number

Parameter

input - Instance of the message class GetVtSecondaryCriteriaAddInfoKeysMsg

Returns

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

- **List<VtMake>** **GetVtMakeList(****GetVtMakeListMsg** 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 GetVtMakeListMsg

Returns

The list of car manufactures.

Exception

System.FormatException - throws a FormatException with language specific error message in case of a invalid given VIN number. The exception will wrapped as SoapException and send SoapFault messages

System.ArgumentException - throws a ArgumentException with lanuguage specific error in case if no vehicle manufacturer could be found by VIN filter. The exception will wrapped as SoapException and send SoapFault messages

- **List<VtMakeTcd> GetVtMakeListTcd(GetVtMakeListMsg 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 GetVtMakeListMsg

Returns

The list of car manufactures.

Exception

System.FormatException - throws a FormatException with lanuguage specific error message in case of a invalid given VIN number. The exception will wrapped as SoapException and send SoapFault messages

System.ArgumentException - throws a ArgumentException with lanuguage specific error in case if no vehicle manufacturer could be found by VIN filter. The exception will wrapped as SoapException and send SoapFault messages

- **List<VtRange> GetVtRangeList(GetVtRangeListMsg 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 GetVtRangeListMsg

Returns

The range list.

Exception

System.FormatException - throws a FormatException with lanuguage specific error message in case of a invalid

given VIN number. The exception will wrapped as SoapException and send SoapFault messages
System.ArgumentException - throws a ArgumentException with lanuguage specific error in case if no vehicle manufacturer could be found by VIN filter. The exception will wrapped as SoapException and send SoapFault messages

- **List<VtRangeTcd> GetVtRangeListTcd(GetVtRangelistMsg 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 GetVtRangeListMsg

Returns

The range list.

Exception

System.FormatException - throws a FormatException with lanuguage specific error message in case of a invalid given VIN number. The exception will wrapped as SoapException and send SoapFault messages
System.ArgumentException - throws a ArgumentException with lanuguage specific error in case if no vehicle manufacturer could be found by VIN filter. The exception will wrapped as SoapException and send SoapFault messages

- **List<VtType> GetVtTypeList(GetVtTypelistMsg 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 GetVtTypeListMsg

Returns

The type list.

Exception

System.FormatException - throws a FormatException with lanuguage specific error message in case of a invalid given VIN number. The exception will wrapped as SoapException and send SoapFault messages
System.ArgumentException - throws a ArgumentException with lanuguage specific error in case if no vehicle manufacturer could be found by VIN filter. The exception will wrapped as SoapException and send SoapFault messages

- **List<VtTypeTcd> GetVtTypeListTcd(GetVtTypeListMsg 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 additonally the TecDoc KType or NType number.

Parameter

input - Instance of the message class GetVtTypeListMsg

Returns

The type list.

Exception

System.FormatException - throws a FormatException with lanuguage specific error mesage in case of a invalid given VIN number. The exception will wrapped as SoapException and send SoapFault messages

System.ArgumentException - throws a ArgumentException with lanuguage specific error in case if no vehicle manufacturer could be found by VIN filter. The exception will wrapped as SoapException and send SoapFault messages

- List<VtTypeModul> GetVtAvailableModules(GetVtAvailableModulesMsg input)

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

Parameter

input - Instance of the message class GetVtAvailableModulesMsg

Returns

The available modules.

- string GetVtTypeText(GetVtTypeTextMsg input)

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

Parameter

input - Instance of the message class GetInfoMsg

Returns

The type text.

- List<VtTypeDetail> GetVtTypeDetails(GetVtTypeDetailsMsg 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 GetVtTypeDetailsMsg

Returns

The type details.

- List<VtTypeDetail> GetVtTypeDetailByNatVehicleNo(GetVtTypeDetailByNatVehicleNoMsg 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 GetVtTypeDetailByNatVehicleNoMsg

Returns

The type details.

- int GetVtAdcMakeIdByTcdMakeId(GetVtAdcMakeIdByTcdMakeIdMsg input)

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

Parameter

input - Instance of the message class GetVtAdcMakeIdByTcdMakeIdMsg

Returns

The associated TecRMI make id.

- int GetVtAdcRangeIdByTcdRangeId(GetVtAdcRangeIdByTcdRangeIdMsg input)

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

Parameter

input - Instance of the message class GetVtAdcRangeIdByTcdRangeIdMsg

Returns

The associated TecRMI range id.

- int GetVtAdcTypeIdByTcdTypeAndClass(GetVtAdcTypeIdByTcdTypeAndClassMsg input)

Returns the TecRMI TypeId for the given TecDoc TypeId 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 GetVtAdcTypeIdByTcdTypeAndClassMsg

Returns

The TecRMI type id.

- int GetVtMakeIdForRangeId(GetVtMakeIdForRangeIdMsg input)

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

Parameter

input - Instance of the message class GetVtMakeIdForRangeIdMsg

Returns

The TecRMI make id.

- int GetVtMakeIdForTypeId(GetVtMakeIdForTypeIdMsg input)

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

Parameter

input - Instance of the message class GetVtMakeIdForTypeIdMsg

Returns

The TecRMI make id.

- int GetVtRangeIdForTypeId(GetVtRangeIdForTypeIdMsg input)

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

Parameter

input - Instance of the message class GetVtRangeIdForTypeIdMsg

Returns

The TecRMI range id.

- int GetVtTcdMakeIdByAdcMakeId(GetVtTcdMakeIdByAdcMakeIdMsg input)

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

Parameter

input - Instance of the message class GetVtTcdMakeIdByAdcMakeIdMsg

Returns

The associated TecDoc vehicle make id.

- int GetVtTcdRangeIdByAdcRangeId(GetVtTcdRangeIdByAdcRangeIdMsg input)

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

Parameter

input - Instance of the message class GetVtTcdRangeIdByAdcRangeIdMsg

Returns

The associated TecDoc range id.

- **VtTcdTypeClass** GetVtTcdTypeAndClassByAdcTypeId(**GetVtTcdTypeAndClassByAdcTypeIdMsg** input)

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

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 GetVtTcdTypeAndClassByAdcTypeIdMsg

Returns

The TecDoc type id and class id.

- **List<TcdKritNumberValue>** GetVtTcdKritNumberValueByVinFilter(**GetVtTcdKritNumberValueByVinFilterMsg** input)

Returns a list of TecDoc generic criteria numbers and criteria number values for given TypeID, VIN and secondary search criteria.

Parameter

input - Instance of the message class GetVtTcdKritNumberValueByVinFilterMsg

Returns

TecDoc generic criteria numbers and values.

Object Model

1. AddInfoKey

1.1. Summary

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

1.2. Detailed Module Documentation

1.2.1. 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.

2. AddInfoKeyFilterParameter

2.1. 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.

2.2. Detailed Module Documentation

2.2.1. 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.

3. GetVtAdcMakeIdByTcdMakeIdMsg

3.1. Summary

Class [AisService._40.Messages.Vt.GetVtAdcMakeIdByTcdMakeIdMsg](#) contains the properties which are necessary to call web service methods [GetVtAdcMakeIdByTcdMakeId](#) .

3.2. See also

[ServiceVt.GetVtAdcMakeIdByTcdMakeId\(...\)](#)

3.3. Detailed Module Documentation

3.3.1. Properties

- **string** **CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string** **Password**

Gets or sets the password.

Property-Value

The password.

- **int** **TcdMakeId**

Gets or sets the make id from TecDoc.

Property-Value

The TecDoc make id.

- **string** **UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

4. GetVtAdcRangeldByTcdRangeldMsg

4.1. Summary

Class [AisService._40.Messages.Vt.GetVtAdcRangeldByTcdRangeldMsg](#) contains the properties which are necessary to call web service methods [GetVtAdcRangeldByTcdRangeld](#) .

4.2. See also

[ServiceVt.GetVtAdcRangeldByTcdRangeld\(...\)](#)

4.3. Detailed Module Documentation

4.3.1. Properties

- **string** **CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- string Password

Gets or sets the password.

Property-Value

The password.

- int TcdRangeld

Gets or sets the range id from TecDoc.

Property-Value

The TecDoc range id.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

5. GetVtAdcTypeIIdByTcdTypeAndClassMsg

5.1. Summary

Class [AisService._40.Messages.Vt.GetVtAdcTypeIIdByTcdTypeAndClassMsg](#) contains the properties which are necessary to call web service methods [GetVtAdcTypeIIdByTcdTypeAndClass](#) .

5.2. See also

[ServiceVt.GetVtAdcTypeIIdByTcdTypeAndClass\(...\)](#)

5.3. Detailed Module Documentation

5.3.1. 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 CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string Password

Gets or sets the password.

Property-Value

The password.

- int TcdTypeId

Gets or sets the TecDoc type id.

Property-Value

The TCD type id.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

6. GetVtAddInfoKeyIdValuesMsg

6.1. Summary

Class [AisService._40.Messages.Vt.GetVtAddInfoKeyIdValuesMsg](#) contains the properties which are necessary to call the web service methods [GetVtAddInfoKeyIdValues](#) .

6.2. See also

[ServiceVt.GetVtAddInfoKeyIdValues\(...\)](#)

6.3. Detailed Module Documentation

6.3.1. Properties

- int AddInfoKeyId

Gets or sets the id of the additional information key whose values should be returned from the method

`GetVtAddInfoKeyIdValues(...)`.

The possible id can be fetched by a calling the web service method

`GetVtAddInfoKeys(...)`.

Property-Value

The filter after additional information.

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string LanguageCode

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

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

7. GetVtAddInfoKeysMsg

7.1. Summary

Class [AisService._40.Messages.Vt.GetVtAddInfoKeysMsg](#) contains the properties which are necessary to call web service method [GetVtAddInfoKeys](#) .

7.2. See also

[ServiceVt.GetVtAddInfoKeys\(...\)](#)

7.3. Detailed Module Documentation

7.3.1. 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 CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- 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 Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

8. GetVtAvailableModulesMsg

8.1. Summary

Class [AisService._40.Messages.Vt.GetVtAvailableModulesMsg](#) contains the properties which are necessary to call web service method [GetVtAvailableModules](#) .

8.2. See also

[ServiceVt.GetVtAvailableModules\(...\)](#)

8.3. Detailed Module Documentation

8.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string CountryCode

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

Property-Value

The ISO country code.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- 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. GetVtMakeIdForRangeldMsg

9.1. Summary

Class [AisService._40.Messages.Vt.GetVtMakeIdForRangeldMsg](#) contains the properties which are necessary to call web service method [GetVtMakeIdForRangeld](#) .

9.2. See also

[ServiceVt.GetVtMakeIdForRangeld\(...\)](#)

9.3. Detailed Module Documentation

9.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- int Rangeld

Gets or sets the vehicle tree ID.

Property-Value

The vehicle tree ID.

The TecRMI range id.

10. GetVtMakeIdForTypeIdMsg

10.1. Summary

Class [AisService._40.Messages.Vt.GetVtMakeIdForTypeIdMsg](#) contains the properties which are necessary to call web service method [GetVtMakeIdForTypeId](#) .

10.2. See also

[ServiceVt.GetVtMakeIdForTypeId\(...\)](#)

10.3. Detailed Module Documentation

10.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **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. GetVtMakeListMsg

11.1. Summary

Class [AisService._40.Messages.Vt.GetVtMakeListMsg](#) contains the properties which are necessary to call web service methods [GetVtMakeList](#) ,

11.2. See also

[ServiceVt.GetVtMakeList\(...\)](#)

11.3. Detailed Module Documentation

11.3.1. 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.

- **string** **CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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 module filter.

Remarks

Possible values are: NoneNo module filteringAdOnly 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 Password

Gets or sets the password.

Property-Value

The password.

- 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.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

12. GetVtRangeldForTypeIdMsg

12.1. Summary

Class [AisService._40.Messages.Vt.GetVtRangeldForTypeldMsg](#) contains the properties which are necessary to call web service method [GetVtRangeldForTypeld](#) .

12.2. See also

[ServiceVt.GetVtRangeldForTypeld\(...\)](#)

12.3. Detailed Module Documentation

12.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **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. GetVtRangeListMsg

13.1. Summary

Class [AisService._40.Messages.Vt.GetVtRangeListMsg](#) contains the properties which are necessary to call web service methods [GetVtRangeList](#) .

13.2. See also

[ServiceVt.GetVtRangeList\(...\)](#)

13.3. Detailed Module Documentation

13.3.1. 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.

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- 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.

- 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 Password

Gets or sets the password.

Property-Value

The password.

- 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.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

14. GetVtSecondaryCriteriaAddInfoKeysMsg

14.1. Summary

Class [AisService._40.Messages.Vt.GetVtSecondaryCriteriaAddInfoKeysMsg](#) contains the properties which are necessary to call web service method [GetVtSecondaryCriteriaAddInfoKeys](#) .

14.2. See also

[ServiceVt.GetVtSecondaryCriteriaAddInfoKeys\(...\)](#)

14.3. Detailed Module Documentation

14.3.1. 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 CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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 Password**

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- string Vin

The vehicle identification number

Property-Value

The vin.

15. GetVtTcdKritNumberValueByVinFilterMsg

15.1. Summary

Class [AisService._40.Messages.Vt.GetVtTcdKritNumberValueByVinFilterMsg](#) contains the properties which are necessary to call web service method [GetVtTcdKritNumberValueByVinFilter](#) .

15.2. See also

[ServiceVt.GetVtTcdKritNumberValueByVinFilter\(...\)](#)

15.3. Detailed Module Documentation

15.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- 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 Password

Gets or sets the password.

Property-Value

The password.

- **string secondaryCriteria**

Gets or sets the secondary vehicle search parameter.

Property-Value

The secondary criteria.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **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**

The vehicle identification number

Property-Value

The vin.

16. GetVtTcdMakeIdByAdcMakeIdMsg

16.1. Summary

Class [AisService._40.Messages.Vt.GetVtTcdMakeIdByAdcMakeIdMsg](#) contains the properties which are necessary to call web service method [GetVtTcdMakeIdByAdcMakeId](#) .

16.2. See also

[ServiceVt.GetVtTcdMakeIdByAdcMakeId\(...\)](#)

16.3. Detailed Module Documentation

16.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **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.

17. GetVtTcdRangeldByAdcRangeldMsg

17.1. Summary

Class [AisService._40.Messages.Vt.GetVtTcdRangeldByAdcRangeldMsg](#) contains the properties which are necessary to call web service method [GetVtTcdRangeldByAdcRangeld](#) .

17.2. See also

[ServiceVt.GetVtTcdRangeldByAdcRangeld\(...\)](#)

17.3. Detailed Module Documentation

17.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- 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. GetVtTcdTypeAndClassByAdcTypeIdMsg

18.1. Summary

Class [AisService._40.Messages.Vt.GetVtTcdTypeAndClassByAdcTypeIdMsg](#) contains the properties which are necessary to call web service method [GetVtTcdTypeAndClassByAdcTypeId](#) .

18.2. See also

[ServiceVt.GetVtTcdTypeAndClassByAdcTypeId\(...\)](#)

18.3. Detailed Module Documentation

18.3.1. Properties

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string Password

Gets or sets the password.

Property-Value

The password.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

- 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.

19. GetVtTypeDetailByNatVehicleNoMsg

19.1. Summary

Class [AisService._40.Messages.Vt.GetVtTypeDetailByNatVehicleNoMsg](#) contains the properties which are necessary to call the web service methods [GetVtTypeDetailByNatVehicleNo](#) .

19.2. See also

[ServiceVt.GetVtTypeDetailByNatVehicleNo\(...\)](#)

19.3. Detailed Module Documentation

19.3.1. Properties

- **string** **CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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.

- **string** **Password**

Gets or sets the password.

Property-Value

The password.

- **string** **UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

20. GetVtTypeDetailsMsg

20.1. Summary

Class [AisService._40.Messages.Vt.GetVtTypeDetailsMsg](#) contains the properties which are necessary to call the web service method [GetVtTypeDetails](#).

20.2. See also

[ServiceVt.GetVtTypeDetails\(...\)](#)

20.3. Detailed Module Documentation

20.3.1. 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 CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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 Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- 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. GetVtTypeListMsg

21.1. Summary

Class [AisService._40.Messages.Vt.GetVtTypeListMsg](#) contains the properties which are necessary to call web service methods [GetVtTypeList](#) .

21.2. See also

[ServiceVt.GetVtTypeList\(...\)](#)

21.3. Detailed Module Documentation

21.3.1. 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.

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- 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.

- string Password

Gets or sets the password.

Property-Value

The password.

- 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.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

22. GetVtTypeTextMsg

22.1. Summary

Class [AisService._40.Messages.Vt.GetVtTypeTextMsg](#) contains the properties which are necessary to call the web service method [GetVtTypeText](#) .

22.2. See also

[ServiceVt.GetVtTypeText\(...\)](#)

22.3. Detailed Module Documentation

22.3.1. 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 [GetVtAddInfoKeys\(...\)](#)

Property-Value

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

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- 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 Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **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. GetVtVinFilterIsPossibleMsg

23.1. Summary

Class [AisService._40.Messages.Vt.GetVtVinFilterIsPossibleMsg](#) contains the properties which are necessary to call web service method [GetVtVinFilterIsPossible](#) .

23.2. See also

[ServiceVt.GetVtVinFilterIsPossible\(...\)](#)

23.3. Detailed Module Documentation

23.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **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 Password**

Gets or sets the password.

Property-Value

The password.

- **string UserName**

Gets or sets the name of the user.

Property-Value

The name of the user.

- **string VIN**

Gets or sets the vin.

Property-Value

The vin.

24. TcdKritNumberValue

24.1. Summary

Class represent a TecDoc criteria number and value.

24.2. Detailed Module Documentation

24.2.1. 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.

25. VtAddInfoSecondaryCriteria

25.1. Summary

Specifies the secondary filter criteria for track VIN filter

25.2. Detailed Module Documentation

25.2.1. 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.

26. VtKindOfAdditionalDetail

26.1. Summary

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

26.2. Detailed Module Documentation

26.2.1. 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.

27. VtMake

27.1. Summary

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

27.2. Detailed Module Documentation

27.2.1. 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.

28. VtMakeTcd

28.1. Summary

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

28.2. Detailed Module Documentation

28.2.1. 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.

- **Nullable<Int32> TcdMakeId**

Gets or sets the TecDoc id of the vehicle manufacturer.

Property-Value

The Tecdoc make id.

29. VtModulFilter

29.1. 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.

29.2. Detailed Module Documentation

29.2.1. 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.

30. VtRange

30.1. Summary

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

30.2. Detailed Module Documentation

30.2.1. 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.

31. VtRangeTcd

31.1. Summary

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

31.2. Detailed Module Documentation

31.2.1. 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.

32. VtTcdTypeClass

32.1. Summary

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

32.2. Detailed Module Documentation

32.2.1. Properties

- **int TcdClassId**

Gets or sets the TecDoc class id.

Property-Value

The TecDoc class id.

- **int TcdTypeId**

Gets or sets the TecDoc type id.

Property-Value

The TecDoc type id.

33. VtType

33.1. Summary

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

33.2. Detailed Module Documentation

33.2.1. 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.

34. VtTypeAdditionalDetail

34.1. Summary

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

34.2. Detailed Module Documentation

34.2.1. 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.

35. VtTypeDetail

35.1. 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.

35.2. Detailed Module Documentation

35.2.1. 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> TcdMakeld**

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> TcdTypeld**

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 Typeld**

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.

36. VtTypeModul

36.1. Summary

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

36.2. Detailed Module Documentation

36.2.1. 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 TypeId

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.

37. VtTypeTcd

37.1. Summary

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

37.2. Detailed Module Documentation

37.2.1. 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 Typeld**

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.