

Interface Description

ServiceLt_SOAP



Revision date: 24.03.2021

TecAlliance GmbH

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Module Details

1. ServiceLt

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.

1.2. Web service URL's

web service URL:

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

URL of WSDL file:

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

1.3. Sequence Of Calls

First of all, you should check whether there are labour times data for your vehicle available. You can do this using the method [GetVehicleHasLt](#) which returns a boolean value indicating whether there is labour times data (**true**) or not (**false**). Next you should select a matching body for your vehicle from the result of the method call [GetBodiesForLt](#) . To get a list with all works for your vehicle, you can call [GetLtWorkList](#) passing the vehicle id and body id of your vehicle.

If you want to get the work steps for an item call [GetLtWorkSteps](#) . The result contains the work position it self and two properties. While the property **ExclusiveWorkPositions** is only for your information and contains the values from which the main labour times work position is composed, the property **OptionalExclusivePositions** contains optional additional labour times work positions which can only be selected in combination with its main labour times work position.

1.4. Summary

Class ServiceLt provides the web service methods for the part labour times.

1.5. Detailed Module Documentation

1.5.1. Methods

- **bool GetVehicleHasLt(GetVehicleHasLtMsg input)**

Checks whether the vehicle has labour times data.

Parameter

input - Instance of the message class GetVehicleHasLtMsg

Returns

true - if there are labour times for the given vehicle; otherwise false.

- **List<LtBodyQualCol> GetBodiesForLt(GetBodiesForLtMsg input)**

Delivers a country specific list including all existing bodies for the type id in the given language.

Parameter

input - Instance of the message class GetBodiesForLtMsg

Returns

The labour times bodies.

- **List<LtMainGroup> GetLtWorkList(GetLtWorkListMsg input)**

Delivers a country specific list to generate the labour times topic tree for the selected vehicle and body in the selected language. The result can be filtered by passing a search string to the property searchText. Use method GetLtWorkListGenArtFiltered to filter by generic articles.

Parameter

input - Instance of the message class GetLtWorkListMsg

Returns

The topic tree of the labour time works.

- **List<LtPaintMainGroup> GetLtWorkListPaint(GetLtWorkListPaintMsg input)**

Delivers a country specific list to generate the labour times topic tree for the selected vehicle and body in the selected language. The result can be filtered by passing a search string to the property searchText.

Parameter

input - Instance of the message class GetLtWorkListPaintMsg

Returns

The topic tree of the labour time works.

- List<LtMainGroup> GetLtWorkListGenArtFiltered(GetLtWorkListGenArtFilteredMsg input)

Delivers a country specific list to generate the labour times topic tree for the selected vehicle and body in the selected language filtered by generic article. The result can be filtered by passing a search string to the property searchText.

Parameter

input - Instance of the message class GetLtWorkListGenArtFilteredMsg

Returns

The topic tree of the labour time works.

- List<LtWorkPos> GetLtWorkSteps(GetLtWorkStepsMsg input)

Delivers a country specific list to generate a labour times work position for the given type id, body id, item mount position id and kind of repair id in the selected language.

Parameter

input - Instance of the message class GetLtWorkStepsMsg

Returns

The labour times work position.

- List<LtWorkPos> GetLtWorkStepsPaint(GetLtWorkStepsPaintMsg input)

Delivers a country specific list to generate a labour times work position for the given type id, body id, item mount position id and kind of repair id in the selected language.

Parameter

input - Instance of the message class GetLtWorkStepsMsg

Returns

The labour times work position.

- List<LtWorkPos> GetLtWorkStepsForSubgroup(GetLtWorkStepsForSubgroupMsg input)

Delivers a country specific list to generate a labour times work position for the given type id, body id, subgroup id and kind of repair id in the selected language.

Parameter

input - Instance of the message class GetLtWorkStepsForSubgroupMsg

Returns

The labour times work position.

- **List<LtWorkPos> GetLtWorkStepsForSubgroupPaint(GetLtWorkStepsForSubgroupPaintMsg input)**

Delivers a country specific list to generate a labour times work position for the given type id, body id, subgroup id and kind of repair id in the selected language.

Parameter

input - Instance of the message class GetLtWorkStepsForSubgroupPaintMsg

Returns

The labour times work position.

- **LtItemMpKorRawTools GetLtRawTools(GetLtRawToolsMsg input)**

Returns the information about required specials tools which are necessary to do the selected work position.

Parameter

input - Instance of message class GetLtRawToolsMsg

Returns

Information about required special tools to do the selected work.

- **List<LtItemMpKorRawToolsForWorks> GetLtRawToolsForWorkIds(GetLtRawToolsForWorkIdsMsg input)**

Returns the information about required specials tools which are necessary to do the selected work position.

Parameter

input - Instance of message class GetLtRawToolsMsg

Returns

Information about required special tools to do the selected work.

Object Model

1. GetBodiesForLtMsg

1.1. Summary

Class [AisService._40.Messages.Lt.GetBodiesForLtMsg](#) contains the properties which are necessary to call web service method [GetBodiesForLt](#) .

1.2. See also

[ServiceLt.GetBodiesForLt\(...\)](#)

1.3. Detailed Module Documentation

1.3.1. 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.

- **int TypeID**

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

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

Property-Value

The TecRMI type id.

2. GetLtRawToolsForWorkIdsMsg

2.1. Summary

Class [AisService._40.Messages.Lt.GetLtRawToolsForWorkIdsMsg](#) contains the properties which are necessary to call the web service method [GetLtRawTools](#) .

2.2. See also

[ServiceLt.GetLtRawTools\(...\)](#)

2.3. Detailed Module Documentation

2.3.1. Properties

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string ConsumerId**

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- **string CountryCode**

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

Property-Value

The ISO country code.

- **string LanguageCode**

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

Property-Value

The ISO language code.

- **string 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.

- List<Int32> WorkIds

Gets or sets a collection with the ids of the selected work positions. This ids can be fetched by using the web service methods `ServiceMd.GetMdWorkSteps(...)` and `ServiceLt.GetLtWorkSteps(...)`

Property-Value

The selected work position ids.

3. GetLtRawToolsMsg

3.1. Summary

Class [AisService._40.Messages.Lt.GetLtRawToolsMsg](#) contains the properties which are necessary to call the web service method [GetLtRawTools](#) .

3.2. See also

[ServiceLt.GetLtRawTools\(...\)](#)

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 ConsumerId

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- string CountryCode

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

Property-Value

The ISO country code.

- int KorId

Gets or sets the TecRMI kind of repair id.

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

Property-Value

The kind of repair id.

- string LanguageCode

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

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- int ItemMpiID

Gets or sets the TecRMI item mount position id.

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

Property-Value

The item mount position id.

- string 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.

4. GetLtWorkListGenArtFilteredMsg

4.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkListMsg](#) contains the properties which are necessary to call web service method [GetLtWorkListGenArtFiltered](#) .

4.2. See also

[ServiceLt.GetLtWorkListGenArtFiltered\(...\)](#)

4.3. Detailed Module Documentation

4.3.1. Properties

- **int BodyQualCollId**

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

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

Property-Value

The body qualifier id.

- **string 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.

- **int GenArtNo**

Filters the LT work list by the given generic article number.

Property-Value

The generic article number.

- **Nullable<Int32> GenCritNo**

Filters the LT work list by the given generic criterion number (Optional).

Property-Value

The generic criterion number.

- **string GenCritValue**

Filters the LT work list by the given generic criterion value (Optional).

Property-Value

The generic criterion value.

- **string LanguageCode**

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

Property-Value

The ISO language code.

- **string 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.

5. GetLtWorkListMsg

5.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkListMsg](#) contains the properties which are necessary to call web service method [GetLtWorkList](#) .

5.2. See also

[ServiceLt.GetLtWorkList\(...\)](#)

5.3. Detailed Module Documentation

5.3.1. Properties

- int BodyQualColId

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

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

Property-Value

The body qualifier id.

- string 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 searchText**

Filters the LT work list by the given search text value.

Property-Value

The search text.

- **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.

6. GetLtWorkListPaintMsg

6.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkListMsg](#) contains the properties which are necessary to call web service method [GetLtWorkList](#) .

6.2. See also

[ServiceLt.GetLtWorkList\(...\)](#)

6.3. Detailed Module Documentation

6.3.1. Properties

- **int BodyQualColId**

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

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

Property-Value

The body qualifier id.

- string 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 searchText

Filters the LT work list by the given search text value.

Property-Value

The search text.

- bool ShowPaint

Enable Paint.

Property-Value

Boolean

- 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.

7. GetLtWorkStepsForSubgroupMsg

7.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkStepsForSubgroupMsg](#) contains the properties which are necessary to call the web service method [GetLtWorkStepsForSubgroup](#) .

7.2. See also

[ServiceLt.GetLtWorkStepsForSubgroup\(...\)](#)

7.3. Detailed Module Documentation

7.3.1. Properties

- **int BodyQualCodId**

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

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

Property-Value

The body qualifier id.

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string ConsumerId**

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- **string CountryCode**

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

Property-Value

The ISO country code.

- **KindOfWorkTimeData KindOfWorkTime**

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

Property-Value

The kind of unit of the work time.

- **string LanguageCode**

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

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- int SubGroupId

Gets or sets the TecRMI topic sub group id. The id can be fetched by using the topic tree methods from the respective modules.

Property-Value

The topic sub group id.

- int TypeId

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

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

Property-Value

The TecRMI type id.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

8. GetLtWorkStepsForSubgroupPaintMsg

8.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkStepsForSubgroupPaintMsg](#) contains the properties which are necessary to call the web service method [GetLtWorkStepsForSubgroupPaint](#) .

8.2. See also

[ServiceLt.GetLtWorkStepsForSubgroupPaint\(...\)](#)

8.3. Detailed Module Documentation

8.3.1. Properties

- int BodyQualCodId

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

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

Property-Value

The body qualifier id.

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string ConsumerId

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- string CountryCode

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

Property-Value

The ISO country code.

- [KindOfWorkTimeData](#) KindOfWorkTime

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

Property-Value

The kind of unit of the work time.

- string LanguageCode

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

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- bool ShowPaint

Enable Paint.

Property-Value

Boolean

- int SubGroupId

Gets or sets the TecRMI topic sub group id. The id can be fetched by using the topic tree methods from the respective modules.

Property-Value

The topic sub group id.

- int TypeId

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

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

Property-Value

The TecRMI type id.

- string UserName

Gets or sets the name of the user.

Property-Value

The name of the user.

9. GetLtWorkStepsMsg

9.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkStepsMsg](#) contains the properties which are necessary to call the web service method [GetLtWorkSteps](#) .

9.2. See also

[ServiceLt.GetLtWorkSteps\(...\)](#)

9.3. Detailed Module Documentation

9.3.1. Properties

- int BodyQualColId

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

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

Property-Value

The body qualifier id.

- string CompanyName

Gets or sets the name of the company.

Property-Value

The name of the company.

- string ConsumerId

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- string CountryCode

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

Property-Value

The ISO country code.

- **KindOfWorkTimeData KindOfWorkTime**

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

Property-Value

The kind of unit of the work time.

- **int KorId**

Gets or sets the TecRMI kind of repair id.

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

Property-Value

The kind of repair id.

- **string LanguageCode**

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

Property-Value

The ISO language code.

- **string Password**

Gets or sets the password.

Property-Value

The password.

- **int ItemMpid**

Gets or sets the TecRMI item mount position id.

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

Property-Value

The item mount position id.

- **string 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.

10. GetLtWorkStepsPaintMsg

10.1. Summary

Class [AisService._40.Messages.Lt.GetLtWorkStepsMsg](#) contains the properties which are necessary to call the web service method [GetLtWorkStepsPaint](#) .

10.2. See also

[ServiceLt.GetLtWorkStepsPaint\(...\)](#)

10.3. Detailed Module Documentation

10.3.1. Properties

- **int BodyQualColId**

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

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

Property-Value

The body qualifier id.

- **string CompanyName**

Gets or sets the name of the company.

Property-Value

The name of the company.

- **string ConsumerId**

Unique identifier for end user which receive the called data.

Property-Value

Unique end user identifier.

- **string CountryCode**

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

Property-Value

The ISO country code.

- **KindOfWorkTimeData KindOfWorkTime**

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

Property-Value

The kind of unit of the work time.

- **int KorId**

Gets or sets the TecRMI kind of repair id.

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

Property-Value

The kind of repair id.

- string LanguageCode

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

Property-Value

The ISO language code.

- string Password

Gets or sets the password.

Property-Value

The password.

- bool ShowPaint

Enable Paint.

Property-Value

Boolean

- int ItemMpld

Gets or sets the TecRMI item mount position id.

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

Property-Value

The item mount position id.

- string 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. GetVehicleHasLtMsg

11.1. Summary

Class [AisService_40.Messages.Lt.GetVehicleHasLtMsg](#) contains the properties which are necessary to call the web service module check method [ServiceLt.GetVehicleHasLt](#) .

11.2. See also

[ServiceLt.GetVehicleHasLt\(...\)](#)

11.3. Detailed Module Documentation

11.3.1. 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** **TypeId**

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

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

Property-Value

The TecRMI type id.

12. KindOfWorkTimeData

12.1. Summary

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

12.2. Detailed Module Documentation

12.2.1. Enums

- **DecimalWorkHours**

The work time is displayed in decimal work hours.

- **ManufacturerWorkPositions**

The work time is displayed in manufacturer work time units.

13. LtBodyQualCol

13.1. Summary

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

13.2. Detailed Module Documentation

13.2.1. Properties

- **int QualColId**

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- **string QualColText**

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

14. LtExclWorkPos

14.1. Summary

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

14.2. Detailed Module Documentation

14.2.1. Properties

- **bool IsCompositeTime**

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

Property-Value

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

- **bool IsOnlyForReference**

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

Property-Value

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

- **bool IsTecRmiTime**

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

Property-Value

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

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **KindOfWorkTimeData KindOfWorkTimeData**

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

Property-Value

The kind of work time data.

- **int KorId**

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- **string KorImage**

Gets or sets the image of the kind of repair.

Property-Value

The kind of repair image.

- **string KorText**

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- **int QualCollId**

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

- int WorkId

Gets or sets the id of the work position.

Property-Value

The work position id.

- string WorkText

Gets or sets the text of the work position.

Property-Value

The work position text.

- decimal WorkTime

Gets or sets the work time.

Property-Value

The work time.

15. LItemMpKor

15.1. Summary

Represents an item mount position along with a kind of repair for labour times. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

15.2. Detailed Module Documentation

15.2.1. Properties

- bool InfoDataExists

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

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- bool IsLocked

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

Property-Value

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

- int ItemMpld

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMplImageName

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

Property-Value

The the item mount position image name.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- int KorId

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- string KorImageName

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

Property-Value

The image name of the kind of repair.

- string KorText

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- int SortOrder

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

Property-Value

The sort order.

16. LItemMplKorRawTools

16.1. Summary

Data model for a raw tool

16.2. Detailed Module Documentation

16.2.1. Properties

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **int KorId**

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- **string KorText**

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- **List<LtTmRawTools> RawTools**

Gets or sets a collection of LtTmRawTools which contains the available raw tools with various qualifiers for a manual.

Property-Value

The raw tools.

17. LtItemMpKorRawToolsForWorks

17.1. Summary

Data model for a raw tool

17.2. Detailed Module Documentation

17.2.1. Properties

- **int BodyQualColld**

Gets or sets the body qualifier collection Id.

Property-Value

The identifier of the body qualifier collection.

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **int KorId**

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- **string KorText**

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- **List<LtTmRawTools> RawTools**

Gets or sets a collection of LtTmRawTools which contains the available raw tools with various qualifiers for a manual.

Property-Value

The raw tools.

- **int Typeld**

Gets or sets the TecRMI type id which identifies a vehicle unique. The id can be fetched by using the vehicle tree methods of this library.

Property-Value

The identifier of the type.

- **int WorkId**

Gets or sets the identifier of the work.

Property-Value

The identifier of the work.

18. LtMainGroup

18.1. Summary

Represents a main group for labour times. In the topic tree hierarchy, main groups are on the topmost level. Each main group may have several sub groups as children.

18.2. Detailed Module Documentation

18.2.1. Properties

- **bool InfoDataExists**

Gets or sets a value indicating whether there are information data existing for this main group.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **int MainGroupId**

Gets or sets the id of the main group.

Property-Value

The main group id.

- **string MainGroupImage**

Gets or sets the image of the main group.

Property-Value

The main group image.

- **string MainGroupName**

Gets or sets the name of the main group.

Property-Value

The the main group name.

- **int SortOrder**

Gets or sets the order number of this main group. A collection of main groups will be sorted against this number.

Property-Value

The sort order.

- **List<LtSubGroup> SubGroups**

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

Property-Value

The sub groups.

19. LtOptExclWorkPos

19.1. Summary

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

19.2. Detailed Module Documentation

19.2.1. Properties

- **bool IsCompositeTime**

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

Property-Value

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

- **bool IsOnlyForReference**

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

Property-Value

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

- **bool IsTecRmiTime**

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

Property-Value

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

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **KindOfWorkTimeData KindOfWorkTimeData**

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

Property-Value

The kind of work time data.

- **int Korld**

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- string KorImage

Gets or sets the image of the kind of repair.

Property-Value

The kind of repair image.

- string KorText

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- int QualCollId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

- int WorkId

Gets or sets the id of the work position.

Property-Value

The work position id.

- string WorkPositionNo

Gets or sets the number of the work position.

Property-Value

The work position number.

- string WorkText

Gets or sets the text of the work position.

Property-Value

The work position text.

- decimal WorkTime

Gets or sets the work time.

Property-Value

The work time.

20. LtPaintItemMpKor

20.1. Summary

Represents an item mount position along with a kind of repair for labour times. In the topic tree hierarchy, item mount positions are children of sub groups. The same item mount position might also be a child of several different sub groups making the topic tree rather a directed acyclic graph than a tree.

20.2. Detailed Module Documentation

20.2.1. Properties

- **bool InfoDataExists**

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

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- **bool IsLocked**

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

Property-Value

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

- **bool IsPaintAllowed**

Determines if this item mount position along with a kind of repair for labour times can be passed to paint.

Remarks

If this property returns true, then the method 'IAuDaLib.GetPaintWorkStepSettings' can be called with the corresponding parameters.

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMplImageName**

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

Property-Value

The the item mount position image name.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- int KorId

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- string KorImageName

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

Property-Value

The image name of the kind of repair.

- string KorText

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- int SortOrder

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

Property-Value

The sort order.

21. LtPaintMainGroup

21.1. Summary

Represents a main group for labour times. In the topic tree hierarchy, main groups are on the topmost level. Each main group may have several sub groups as children.

21.2. Detailed Module Documentation

21.2.1. Properties

- bool InfoDataExists

Gets or sets a value indicating whether there are information data existing for this main group.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- int MainGroupId

Gets or sets the id of the main group.

Property-Value

The main group id.

- string MainGroupImage

Gets or sets the image of the main group.

Property-Value

The main group image.

- string MainGroupName

Gets or sets the name of the main group.

Property-Value

The the main group name.

- int SortOrder

Gets or sets the order number of this main group. A collection of main groups will be sorted against this number.

Property-Value

The sort order.

- List<LtPaintSubGroup> SubGroups

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

Property-Value

The sub groups.

22. LtPaintSubGroup

22.1. Summary

Represents a sub group for labour times. In the topic tree hierarchy, sub groups are children of main groups. The same sub group might also be a child of several different main groups making the topic tree rather a directed acyclic graph than a tree. Each sub group may have several item mount positions as children.

22.2. Detailed Module Documentation

22.2.1. Properties

- bool InfoDataExists

Gets or sets a value indicating whether there are information data existing for this sub group.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- List<LtPaintItemMpKor> ItemMps

Gets or sets a collection of item mount positions which belongs to this sub group.

Property-Value

The item mount positions.

- int SortOrder

Gets or sets the order number of this sub group. A collection of sub groups will be sorted against this number.

Property-Value

The sort order.

- int SubGroupId

Gets or sets the id of the sub group.

Property-Value

The sub group id.

- string SubGroupImage

Gets or sets the sub group image.

Property-Value

The sub group image.

- string SubGroupName

Gets or sets the name of the sub group.

Property-Value

The sub group name.

23. LtSubGroup

23.1. Summary

Represents a sub group for labour times. In the topic tree hierarchy, sub groups are children of main groups. The same sub group might also be a child of several different main groups making the topic tree rather a directed acyclic graph than a tree. Each sub group may have several item mount positions as children.

23.2. Detailed Module Documentation

23.2.1. Properties

- bool InfoDataExists

Gets or sets a value indicating whether there are information data existing for this sub group.

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- List<LtItemMpKor> ItemMps

Gets or sets a collection of item mount positions which belongs to this sub group.

Property-Value

The item mount positions.

- int SortOrder

Gets or sets the order number of this sub group. A collection of sub groups will be sorted against this number.

Property-Value

The sort order.

- int SubGroupId

Gets or sets the id of the sub group.

Property-Value

The sub group id.

- string SubGroupImage

Gets or sets the sub group image.

Property-Value

The sub group image.

- string SubGroupName

Gets or sets the name of the sub group.

Property-Value

The sub group name.

24. LtTmRawTool

24.1. Summary

Class **LtTmRawTool** contains detailed informations of a raw tool.

24.2. Detailed Module Documentation

24.2.1. Properties

- string ImageName

Gets or sets the name of the image.

Property-Value

The name of the image.

- int RawToolId

Gets or sets the id of the raw tool.

Property-Value

The raw tool id.

- string RawToolName

Gets or sets the name of the raw tool.

Property-Value

The name of the raw tool.

- string RawToolNumber

Gets or sets the number of the raw tool.

Property-Value

The raw tool number.

25. LtTmRawTools

25.1. Summary

Contains raw tools of a specific manual

25.2. Detailed Module Documentation

25.2.1. Properties

- int ItemMpld

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- List<LtTmRawTool> RawTools

Gets or sets a collection containing all available raw tools in the current manual context.

Property-Value

The available raw tools.

- int TmQualCollId

Gets or sets the id of the qualifier collection from the technical manual part.

Property-Value

The technical manual qualifier collection id.

- string TmQualColText

Gets or sets the text of the qualifier collection from the technical manual part.

Property-Value

The technical manuals qualifier collection text.

26. LtWorkPos

26.1. Summary

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

26.2. Detailed Module Documentation

26.2.1. Properties

- **List<LtExclWorkPos> ExclusiveWorkPositions**

Gets or sets a collection of exclusive work positions.

Remarks

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

Property-Value

The exclusive work positions.

- **bool IsCompositeTime**

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

Property-Value

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

- **bool IsLocked**

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

Property-Value

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

- **bool IsOnlyForReference**

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

Property-Value

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

- **bool IsTecRmiTime**

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

Property-Value

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

- **int ItemMpld**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- KindOfWorkTimeData KindOfWorkTimeData

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

Property-Value

The kind of work time data.

- int KorId

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- string KorImage

Gets or sets the image of the kind of repair.

Property-Value

The kind of repair image.

- string KorText

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- List<LtOptExclWorkPos> OptionalExclusivePositions

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

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

Property-Value

The optional exclusive positions.

- int QualCollId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

- **int WorkId**

Gets or sets the id of the work position.

Property-Value

The work position id.

- **string WorkPosNo**

Gets or sets the number of the work position.

Property-Value

The work position number.

- **string WorkText**

Gets or sets the text of the work position.

Property-Value

The work position text.

- **decimal WorkTime**

Gets or sets the work time.

Property-Value

The work time.