

Interface Description

ServicePaint_SOAP



Revision date: 23.04.2024

TecAlliance GmbH

Contents

Module Details

1. ServicePaint

ObjectModel

- 1. ItemMp
- 2. KindOfAddition
- 3. KindOfAssembly
- 4. KindOfInstallation
- 5. KindOfMaterial
- 6. KindOfPaint
- 7. KindOfPaintStage
- 8. KindOfWorkTimeData
- 9. PaintBodyQualCol
- 10. PaintExclWorkPos
- 11. PaintItemMpKor
- 12. PaintMainGroup
- 13. PaintOptExclWorkPos
- 14. PaintSubGroup
- 15. PaintWorkPos
- 16. PaintWorkPosSettingsOverview
- 17. QualCol

Module Details

1. ServicePaint

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 neccessary 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 AIS 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 AIS common webservice are valid.

Some methods require the ConsumerId property. To this a unique value, which idendifies the customers users which uses the AIS 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 occured or the access to the web service was denied.

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

1.2. Prerequisites

Some of the html documents could contain graphics in the .SVG format. So the system requierements for viewing html documents are: MS Internet Explorer v. 9.0 and higher

Mozilla Firefox 15 and higher

1.3. Web service URL's

web service URL:

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

URL of WSDL file:

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

1.4. Sequence Of Calls

First of all, you should check whether there is paint data available for the currently selected vehicle. To perform this check, you simply call [GetVehicleHasPaint](#) which returns a boolean value indicating whether there is paint data

(**true**) or not (**false**). Then you should choose the matching body of your vehicle from the return value of the method [GetBodiesForPaint](#) .

Next step is to call [GetPaintWorkList](#) to get a list of paint works for your vehicle.

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

To retrieve more detailed information about a paint workposition call the method [GetPaintWorkPosSettings](#)

1.5. Summary

Class **ServicePaint** provides the web service methods for the paint data.

1.6. addtogroup

1.7. Detailed Module Documentation

1.7.1. Methods

- **bool GetVehicleHasPaint([GetVehicleHasPaintMsg](#) input)**

Checks whether the vehicle has paint data.

Parameter

input - Instance of the message class AisService._40.Messages.Paint.GetVehicleHasPaintMsg

Returns

true if it succeeds, false if it fails.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- **List<[PaintBodyQualCol](#)> GetBodiesForPaint([GetBodiesForPaintMsg](#) input)**

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

Parameter

input - Instance of the message class AisService._40.Messages.Paint.GetBodiesForPaintMsg

Returns

The bodies for paint.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- **List<[PaintMainGroup](#)> GetPaintWorkList([GetPaintWorkListMsg](#) input)**

Delivers a country specific list of paint works for the given vehicle and body.

Parameter

input - Instance of the message class AisService._40.Messages.Paint.GetPaintWorkListMsg

Returns

The paint work list.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- List<PaintWorkPos> GetPaintWorkSteps([GetPaintWorkStepsMsg](#) input)

Delivers a country specific list of paint workpositions for a given vehicle, body and kind of repair in the given language.

Parameter

input - Instance of the message class AisService._40.Messages.Paint.GetPaintWorkStepsMsg

Returns

The paint work steps.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

- [PaintWorkPosSettingsOverview](#) GetPaintWorkPosSettings([GetPaintWorkPosSettingsMsg](#) input)

Delivers a country specific list of paint work position settings for a given vehicle and item mount position

Parameter

input - Instance of the message class AisService._40.Messages.Paint.GetPaintWorkPosSettingsMsg

Returns

The paint work position settings.

Exception

System.Web.Services.Protocols.SoapException - Thrown when a SOAP error condition occurs.

Object Model

1. ItemMp

1.1. Summary

Class **ItemMp** represents an item mount position. In the topic tree hierarchy, item mount positions are children of sub groups. Being a base class mainly, this class is also used when the id and text is the only required information of an item mount position.

1.2. Detailed Module Documentation

1.2.1. Properties

- int ItemMpId

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

2. KindOfAddition

2.1. Summary

Enum **KindOfAdditions** specifies the kind of the additions.

2.2. Detailed Module Documentation

2.2.1. Enums

- Undercoating

The kind of the addition 'Undercoating'.

- TwoSidePaint

The kind of the addition 'Two side paint'.

- Prepainting

The kind of the addition 'Pre-painting'.

- MixPaint

The kind of the addition 'Mix paint'.

- ColorPattern

The kind of the addition 'Color pattern'.

- **TwoColorsPaint**

The kind of the addition 'Two colors paint'.

3. KindOfAssembly

3.1. Summary

Enum **KindOfAssembly** specifies the kind of assembly.

3.2. Detailed Module Documentation

3.2.1. Enums

- **Screwed**

The kind of assembly 'screwed'.

- **WeldedOrGlued**

The kind of assembly 'welded or glued'.

4. KindOfInstallation

4.1. Summary

Enum **KindOfInstallation** specifies the kind of the installation.

4.2. Detailed Module Documentation

4.2.1. Enums

- **Installed**

The kind of installation 'Installed'.

- **Dismounted**

The kind of material 'Dismounted'.

5. KindOfMaterial

5.1. Summary

Enum **KindOfMaterial** specifies the kind of material.

5.2. Detailed Module Documentation

5.2.1. Enums

- **Metal**

The kind of material 'metal'.

- **Plastic**

The kind of material 'plastic'.

6. KindOfPaint

6.1. Summary

Enum **KindOfPaint** specifies the kind of paint.

6.2. Detailed Module Documentation

6.2.1. Enums

- **Uni**

Uni.

- **TwoLayered**

Two layered.

- **MultiLayered**

Multi layered.

7. KindOfPaintStage

7.1. Summary

Enum **KindOfPaintStage** specifies the stage of paint.

7.2. Detailed Module Documentation

7.2.1. Enums

- **S1**

The paint stage 'S1'.

- **S2**

The paint stage 'S2'.

- **S3**

The paint stage 'S3'.

- **S4**

The paint stage 'S4'.

8. KindOfWorkTimeData

8.1. Summary

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

8.2. Detailed Module Documentation

8.2.1. Enums

- DecimalWorkHours

The work time is displayed in decimal work hours.

- ManufacturerWorkPositions

The work time is displayed in manufacturer work time units.

9. PaintBodyQualCol

9.1. Summary

Represents a body qualifier collection for paint. 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.

9.2. Detailed Module Documentation

9.2.1. 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.

10. PaintExclWorkPos

10.1. Summary

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

10.2. Detailed Module Documentation

10.2.1. 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 ItemMpId**

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- **string ItemMpText**

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- **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.

11. PaintItemMpKor

11.1. Summary

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

11.2. Detailed Module Documentation

11.2.1. Properties

- bool InfoDataExists

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

The portal database must be available to provide information data.

Property-Value

true if info data exists; otherwise, false.

- bool IsLocked

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

Property-Value

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

- int ItemMpId

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMpImageName

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

Property-Value

The the item mount position image name.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- int KorId

Gets or sets the id of the kind of repair.

Property-Value

The kind of repair id.

- string KorImageName

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

Property-Value

The image name of the kind of repair.

- string KorText

Gets or sets the text of the kind of repair.

Property-Value

The kind of repair text.

- int SortOrder

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

Property-Value

The sort order.

12. PaintMainGroup

12.1. Summary

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

group may have several sub groups as children.

12.2. Detailed Module Documentation

12.2.1. 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<[PaintSubGroup](#)> SubGroups

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

Property-Value

The sub groups.

13. PaintOptExclWorkPos

13.1. Summary

Represents an optional exclusive work position for a paint work position which can only be selected in combination

with its main paint work position.

13.2. Detailed Module Documentation

13.2.1. 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 ItemMpId

Gets or sets the id of the item mount position.

Property-Value

The item mount position id.

- string ItemMpText

Gets or sets the text of the item mount position.

Property-Value

The item mount position text.

- [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 QualColId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

- int 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.

14. PaintSubGroup

14.1. Summary

Represents a sub group for paint. 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.

14.2. Detailed Module Documentation

14.2.1. 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<PaintItemMpKor> 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.

15. PaintWorkPos

15.1. Summary

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

15.2. Detailed Module Documentation

15.2.1. Properties

- List<[PaintExclWorkPos](#)> 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 ItemMplId

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<PaintOptExclWorkPos> 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 QualColId

Gets or sets the id of the qualifier collection.

Property-Value

The qualifier collection id.

- string QualColText

Gets or sets the text of the qualifier collection.

Property-Value

The qualifier collection text.

- int 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.

16. PaintWorkPosSettingsOverview

16.1. Summary

Represents the settings overview for a work position for paint part of the AuDaLib which contains all necessary information for selecting a work position for calculation.

16.2. Detailed Module Documentation

16.2.1. Properties

- QualCol AreaQualCol

Gets or sets the area qualifier collection.

- List<QualCol> AvailableAreaQualCols

Gets or sets the area qualifier collection.

- List<KindOfAddition> AvailableKindOfAdditions

Gets or sets the available kind of additions.

- List<KindOfInstallation> AvailableKindOfInstallations

Gets or sets the available kind of installations.

- List<KindOfMaterial> AvailableKindOfMaterials

Gets or sets the available kind of materials.

- List<KindOfPaint> AvailableKindOfPaints

Gets or sets the available kind of paint.

- List<KindOfPaintStage> AvailableKindOfPaintStages

Gets or sets the available kind of paint stages.

- bool IsTwoSided

Gets or sets the two sided flag.

- int ItemMpId

Gets or sets the item mount position Id.

- string ItemMpText

Gets or sets the item mount position text.

- List<KindOfAddition> KindOfAdditions

Gets or sets the kind of additions.

- KindOfAssembly KindOfAssembly

Gets or sets the kind of assembly.

- KindOfInstallation KindOfInstallation

Gets or sets the kind of installation.

- KindOfMaterial KindOfMaterial

Gets or sets the kind of material.

- KindOfPaint KindOfPaint

Gets or sets the kind of paint.

- KindOfPaintStage KindOfPaintStage

Gets or sets the kind of paint stage.

- bool MultipleKindOfAdditionsAllowed

Gets or sets if multiple kind of additions are allowed.

- bool MultipleKindOfInstallationsAllowed

Gets or sets if multiple kind of installations are allowed.

- bool MultipleKindOfMaterialsAllowed

Gets or sets if multiple kind of material are allowed.

- bool MultipleKindOfPaintsAllowed

Gets or sets if multiple kind of paints are allowed.

- bool MultipleKindOfPaintStagesAllowed

Gets or sets if multiple kind of paint stages are allowed.

- Nullable<Int32> PaintGroupId

Gets or sets the paint group Id.

- List<ItemMp> PaintGroupsItemMps

Gets or sets the paint group's item mount positions.

16.2.2. Methods

- [PaintWorkPosSettingsOverview Create\(\)](#)

Creates a default instance of the AuDaLib.Interface.ObjectModel.Paint.PaintWorkPosSettingsOverview class./>

Returns

The instance.

17. QualCol

17.1. Summary

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

17.2. Detailed Module Documentation

17.2.1. 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.