

# Interface Description

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ServiceTd\_SOAP



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TecAlliance GmbH

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## Module Details

### 1. ServiceTd

#### 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/ServiceTd.asmx>

URL of WSDL file:

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

#### 1.3. Sequence Of Calls

First of all, check if your vehicle has tyre data using [GetVehicleHasTd](#) . To get a listing of available ABEs, KBAs and VSNs for your type id, call [GetTyreTypes](#) . To get information for a special ABE, call [GetTyres](#) . Call method [GetAllTyresForType](#) when a list of all tyre which are available for the vehicle is needed. The HTML version of the list of all tyres can be fetched by calling the web service method [GetAllTyresForTypeHtml](#) .

#### 1.4. Summary

Class `ServiceTd` provides the web service methods for the part tyre data.

## 1.5. Detailed Module Documentation

### 1.5.1. Methods

- **bool GetVehicleHasTd(GetVehicleHasTdMsg input)**

Checks whether the vehicle has tyre data.

**Parameter**

input - Instance of the message class GetVehicleHasTdMsg

**Returns**

true - if tyre data exists; otherwise false.

- **List<TdTyre> GetTdAllTyresForType(GetTdAllTyresForTypeMsg input)**

Gets all the tyres for the selected typeId.

**Parameter**

input - Instance of the message class GetTdAllTyresForTypeMsg

**Returns**

All the tyres.

- **string GetTdAllTyresForTypeHtml(GetTdAllTyresForTypeHtmlMsg input)**

Gets all the tyres for the selected typeId as a HTML-string.

**Parameter**

input - Instance of the message class GetAllTyresForTypeHtml

**Returns**

A HTML-string.

- **List<TdTyreType> GetTdTyreTypes(GetTdTyreTypesMsg input)**

Retrieves all tyre types available with all known tyre types and corresponding ABE (general operating license), KBA (german federal motor transport authority) or VSN (part of the kba number) for the given TecRMI vehicle type id.

**Parameter**

input - Instance of the message class GetTdTyreTypesMsg

**Returns**

A collection of the tyre types.

- **List<TdTyre> GetTdTyres(GetTdTyresMsg input)**

Retrieves all tyre data available for a given tyre type id to generate a tyre data sheet.

**Parameter**

input - Instance of the message class GetTdTyresMsg.

**Returns**

The available tyre data.

**- string GetTdTyreTypesHtml([GetTdTyreTypesHtmlMsg](#) input)**

Retrieves all tyre data available for a given tyre type id and generate a HTML string.

**Parameter**

input - Instance of the message class GetTdTyreTypesHtmlMsg

**Returns**

A HTML-string.

# Object Model

## 1. GetTdAllTyresForTypeHtmlMsg

### 1.1. Summary

Class [AisService.\\_40.Messages.Td.GetTdAllTyresForTypeHtmlMsg](#) contains the properties which are necessary to call web service method [GetTdAllTyresForTypeHtml](#) .

### 1.2. See also

[ServiceTd.GetTdAllTyresForTypeHtml\(...\)](#)

### 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 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.

**- 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. GetTdAllTyresForTypeMsg

### 2.1. Summary

Class [AisService.\\_40.Messages.Td.GetTdAllTyresForTypeMsg](#) contains the properties which are necessary to call web service method [GetTdAllTyresForType](#) .

### 2.2. See also

[ServiceTd.GetTdAllTyresForType\(...\)](#)

### 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.

**- 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.

### 3. GetTdTyresMsg

#### 3.1. Summary

Class [AisService.\\_40.Messages.Td.GetTdTyresMsg](#) contains the properties which are necessary to call web service methods [GetTdTyres](#) .

#### 3.2. See also

[ServiceTd.GetTdTyres\(...\)](#)

#### 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.

**- 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 TyreTypeId**

Gets or sets the id of the tyre whose data should be called. This id can be fetched by calling the web service method `GetTdTyreTypes(...)`

**Property-Value**

The tyre type id.

**- string UserName**

Gets or sets the name of the user.

**Property-Value**

The name of the user.

## 4. GetTdTyreTypesHtmlMsg

### 4.1. Summary

Class [AisService.\\_40.Messages.Td.GetTdTyreTypesHtmlMsg](#) contains the properties which are necessary to call web service method [GetTdTyreTypesHtml](#) .

### 4.2. See also

[ServiceTd.GetTdTyreTypesHtml\(...\)](#)

### 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 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.

**- int TyreTypeId**

Gets or sets the id of the tyre whose data should be called. This id can be fetched by calling the web service method `GetTdTyreTypes(...)`

**Property-Value**

The tyre type 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.

## 5. GetTdTyreTypesMsg

### 5.1. Summary

Class [AisService.\\_40.Messages.Td.GetTdTyreTypesMsg](#) contains the properties which are necessary to call web service method [GetTdTyreTypes](#) .

## 5.2. See also

[ServiceTd.GetTdTyreTypes\(...\)](#)

## 5.3. Detailed Module Documentation

### 5.3.1. 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.

## 6. GetVehicleHasTdMsg

### 6.1. Summary

Class [AisService.\\_40.Messages.Td.GetVehicleHasTdMsg](#) contains the properties which are necessary to call the web service module check method [ServiceTd.GetVehicleHasTd](#) .

## 6.2. See also

[ServiceTd.GetVehicleHasTd\(...\)](#)

## 6.3. Detailed Module Documentation

### 6.3.1. 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.

## 7. TdTyre

### 7.1. Summary

Represents a tyre for the tyre data part of the AuDaLib.

### 7.2. Detailed Module Documentation

#### 7.2.1. Properties

**- string ApplicationText**

Gets or sets the application text.

**Property-Value**

The application text.

**- string FrontRimSize**

Gets or sets the size of the front rim.

**Property-Value**

The size of the front rim.

**- string FrontTyreSize**

Gets or sets the size of the front tyre.

**Property-Value**

The size of the front tyre.

**- bool HsnTsnVsnSelectionRequired**

Gets or sets a value indicating whether the user has to select a HSN/TSN/VSN combination.

**Remarks**

The combination of HSN/TSN/VSN identifies a specific vehicle. The particular constituents are:  
HSNManufacturer key number (german: Herstellerschlüsselnummer) is a four digit code which identifies a manufacturer of a vehicle. TSNTyre key number (german: Typschlüsselnummer) is a three digit code which identifies the range of a vehicle. VSNVersion key number (german: Versionschlüsselnummer) is a five digit code which identifies the version or the variant of a vehicle type.

**Property-Value**

true if this tyre requires an HSN/TSN/VSN selection; otherwise, false.

**- string InfoText**

Gets or sets the info text.

**Property-Value**

The info text.

**- string RearRimSize**

Gets or sets the size of the rear rim.

**Property-Value**

The size of the rear rim.

**- string RearTyreSize**

Gets or sets the size of the rear tyre.

**Property-Value**

The size of the rear tyre.

## 8. TdTyreType

### 8.1. Summary

Represents a tyre type for TD.

### 8.2. Detailed Module Documentation

#### 8.2.1. Properties

- **string Abe**

Gets or sets the general operating permit (german: Allgemeine Betriebserlaubnis).

**Property-Value**

The general operating permit (german: Allgemeine Betriebserlaubnis).

- **string HsnTsn**

Gets or sets the HSN (manufacturer key number [german: Herstellerschlüsselnummer]) / TSN (type key number [german: Typschlüsselnummer]).

**Property-Value**

The HSN (manufacturer key number) / TSN (type key number).

- **int TypeTypeId**

Gets or sets the tyre type id.

**Property-Value**

The tyre type id.

- **string Vsn**

Gets or sets the VSN (version key number [german: Variantenschlüsselnummer]).

**Property-Value**

The VSN (version key number [german: Variantenschlüsselnummer]).

#### 8.2.2. Methods

- **int CompareTo([TdTyreType](#) other)**

Compares the current instance with another object of the same type and returns an integer that indicates whether the current instance precedes, follows, or occurs in the same position in the sort order as the other object.

**Parameter**

other - An object to compare with this instance.

**Returns**

A value that indicates the relative order of the objects being compared. The return value has these meanings:  
Less than zero This instance precedes in the sort order. Zero This instance occurs in the same position in the sort order as . Greater than zero This instance follows in the sort order.

