



Tyre Shopping PRO Web Service

API Version 2010-12-01v21

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Welcome

This documentation describes the functional content of the Tyre Shopping PRO Web Service API. It is aimed at developers who are trained in working with Web Service requests, XML and SOAP procedures. It gives an overview over the Web Service interface provided by Tyre24 GmbH for the Tyre Shopping PRO System. You are provided an introduction regarding the Web Service Interface and a detailed description of its functions.

Introduction

The Tyre Shopping PRO Web Service API was developed to give Tyre Shopping PRO users the opportunity to create their own front end based on the data of the Tyre Shopping PRO System. The interface is based on SOAP and can therefore only be addressed via SOAP requests. An implementation of REST is not planned. To find out more about the Tyre Shopping PRO Web Service API, please contact us at info@tyre-shopping.de.

Programming Guide

On the following pages, the use of the interface is described in detail. You will find an overview of the existing functions as well as their specification

Introduction

After you have received your access data for the Tyre Shopping PRO API, you can send SOAP requests to our Web Service with these access data. The necessary WSDL file can be found at

<https://api.tyre-shopping.com/webservice/20101201/ApiTyreShoppingWebService.wsdl>

After authenticating there via SOAP request, we will send you a token which you can use to send further requests. This token expires after five minutes. This means that if you have not sent any requests to our Web Service for five minutes, your token becomes invalid. In that case, use your access data to authenticate again and receive a new token.

This is a security measure. At the moment you can only send unencrypted requests to the Web Service. Since your access data are included in your request as clear text, the token system is a way of protecting your access data in case somebody should try to intercept the request on its way to us.

Authentication

To authenticate against our Web Service, there are the following functions:

authenticate

```
<SOAP-ENV:Envelope>
  <SOAP-ENV:Body>
    <ns1:authenticate>
      <ns1:userId>XXX</ns1:userId>
      <ns1:password>XXX</ns1:password>
      <ns1:token>XXX</ns1:token>
    </ns1:authenticate>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

The function **authenticate** can be called by using the parameters **userId** and **password** or the parameter **token**. In general, you only have to do this once to receive a token. This token can then be used for further requests. Please keep in mind though that the token will expire if no request has been sent through it for five minutes. Afterwards you have to authenticate again with your **userId** and **password**.

Parameter	Required	Description
userId	no	Your user id, is required if token is invalid
password	no	Your password, is required if token is invalid
token	no	token is valid for five minutes

The response you receive after successful authentication looks like this:

```
<SOAP-ENV:Envelope>
  <SOAP-ENV:Body>
    <ns1:securityToken>
      <ns1:token>XXX</ns1:token>
      <ns1:expires>XXX</ns1:expires>
    </ns1:securityToken>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Under **token** you will see your assigned security token, which you have to send together with further requests. The parameter **expires** shows the elapsed time of your token in Unix timestamp format.

Tyre Search

Currently, the tyre search offers two useful functions: Firstly, the general tyre search, which you know from our Tyre Shopping PRO System. It returns the available tyres with the help of a match code. The second function is a request which shows you the details page of a tyre. Is a cooperation set for the shop, the prices of this cooperation are returned.

getTyres

```
<SOAP-ENV:Envelope>
  <SOAP-ENV:Body>
    <ns1:getTyres>
      <ns1:token>XXX</ns1:token>
      <ns1:searchString>XXX</ns1:searchString>
      <ns1:minAvailability>XXX</ns1:minAvailability>
      <ns1:manufacturer>XXX</ns1:manufacturer>
      <ns1:manufacturerName>XXX</ns1:manufacturerName>
      <ns1:showOldItems>XXX</ns1:showOldItems>
      <ns1:imageWidth>XXX</ns1:imageWidth>
      <ns1:imageHeight>XXX</ns1:imageHeight>
      <ns1:ownItemWarehouseId>XXX</ns1:ownItemWarehouseId>
      <ns1:dealerToken>XXX</ns1:dealerToken>
      <ns1:priceList>XXX</ns1:priceList>
      <ns1:order>XXX</ns1:order>
      <ns1:ownStock>XXX</ns1:ownStock>
    </ns1:getTyres>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Your assigned security token must appear in **token**, the chosen match code of the tyre, e.g. **1956515**, must be contained in **searchString**. Alternatively, the **searchString** can also be an EAN, HSN or ID. For this, the corresponding code word must be written before it, e.g. **EAN4053943890838**.

The search string must consist of at least 3 consecutive characters that do not contain spaces. The parameter **minAvailability** states the desired minimum number of the tyre searched for.

If the value of the optional parameter **showOldItems** is **1**, discontinued tyres are included in the search.

The optional parameter **manufacturerName** narrows down the search to certain manufacturers, e.g. MICHELIN, CONTINENTAL, PIRELLI, etc.

The optional parameters **imageWidth** and **imageHeight** affect width and height of the image that is returned in the response as **imageUrl**.

The optional parameter **ownItemWarehouseId** returns your own stock tyres with the specified storage identifier, rather than the cheapest tyres.

The optional parameters **dealerToken** and **priceList** can be used to return different prices for dealers by using the price list.

Please note: A match code consists of:

Tyre type + width + aspect ratio + diameter + speed rating

Examples:

- Winter tyres 195/65 R15 H W1956515H
- Summer tyres 215/45 R17 V S2154517V
- Summer 215/45 all diameters S21545

Parameter	Required	Description
token	yes	Token from authenticateResponse
searchString	yes	<p>a matchcode consists of tyre type + width + height + diameter + speed index example: winter tyres 195/65 R15 H W1956515H</p> <p>EAN numbers in the format "EAN4053943890838" are also accepted as search strings. A search by ID or HSN is also possible. Example: ID306849 or HSN03586130000</p> <p>type: string</p>
minAvailability	no	<p>minium amount for searched tyre</p> <p>type: integer</p>
manufacturer	no	<p>restrict result to a manufacturer (ID)</p> <p>type: integer</p>
manufacturerName	no	<p>restrict result to a manufacturer name</p> <p>type: string</p>
order	no	<p>Sorting</p> <p>type: string</p> <ul style="list-style-type: none"> - typ ASC/DESC sort by typ (winter, summer..) - bezeichnung ASC/DESC sort by description - bezeichnung1 ASC/DESC sort by description1 - preis ASC/DESC sorty by price
ownStock	no	<p>Only show articles with own stock</p> <p>type: integer (1 oder 0)</p>
priceList	no	optional price list for stockist

dealerToken	no	required for get price list for stockist Token from authenticateDealerResponse
showOldItems	no	show discontinued tyres type: integer (0 oder 1)
imageWidth	no	width for picturer in url type: integer
imageHeight	no	height for picture in url type: integer
ownItemWarehouseId	no	warehouse id for tyres with own stock

Your response will be the following XML document with **maximum 1000** Tyres:

```
<ns1:getTyresResponse>
  <ns1:items>
    <ns1:itemId>xxx</ns1:itemId>
    <ns1:description>xxx</ns1:description>
    <ns1:description1 />
    <ns1:price>xxx</ns1:price>
    <ns1:org_price>xxx</ns1:org_price>
    <ns1:stock>xxx</ns1:stock>
    <ns1:kbprice>xx</ns1:kbprice>
    <ns1:discount>xxx</ns1:discount>
    <ns1:text_de>xxx.</ns1:text_de>
    <ns1:pic>xxx</ns1:pic>
    <ns1:pic_t24>xxx</ns1:pic_t24>
    <ns1:date_de>xxx</ns1:date_de>
    <ns1:source_de>xxx</ns1:source_de>
    <ns1:feedback_de>xxx</ns1:feedback_de>
    <ns1:itemText>xxx</ns1:itemText>
    <ns1:itemDate>xxx</ns1:itemDate>
    <ns1:itemSource>xxx</ns1:itemSource>
    <ns1:shortFeedback>xxx</ns1:shortFeedback>
    <ns1:pr_description>xxx</ns1:pr_description>
    <ns1:manufacturer_description>xxx</ns1:manufacturer_description>
    <ns1:type>xxx</ns1:type>
    <ns1:matchcode>xxx</ns1:matchcode>
    <ns1:ean_number>xxx</ns1:ean_number>
    <ns1:manufacturer_item_number>xxx</ns1:manufacturer_item_number>
    <ns1:imageUrl>xxx</ns1:imageUrl>
    <ns1:weight>xxx</ns1:weight>
    <ns1:ownStock>xxx</ns1:ownStock>
    <ns1:wholesalerArticleNo>xxx</ns1:wholesalerArticleNo>
```



```
<ns1:is3PMSF>xxx</ns1:is3PMSF>  
</ns1:items>  
</ns1:getTyresResponse>
```

itemId	This is our internal item ID. It is needed for further requests.
description	item name, e.g. WANLI S1093 195/65 R15 91 H
description1	item name continued
price	item price in EUR
org_price	Same value as in price
stock	item stock
kbprice	calculation base price
discount	Always 0
text_de	item description (german)
pic	item image (old) new: imageUrl
pic_t24	item image with T24 logo (old) new: imageUrl
date_de	date of rating text (german)
source_de	source of rating text (german)
feedback_de	item rating, usually test results (german)
itemText	item description (multilingual)
itemDate	date if rating text (multilingual)
itemSource	source of rating text (multilingual)
shortFeedback	item rating (multilingual)
pr_description	profile description
manufacturer_description	item manufacturer
type	item type s – Summer tyre w – Winter tyre m – 2-Wheel / Quad tyre g – All-season tyre o – Off-road tyre l – Truck tyre
matchcode	This is our internal match code. e.g. W1955015HDUSPWIM3
ean_number	EAN of item
manufacturer_item_number	manufacturer number of item
imageUrl	item image with Tyre-Shopping logo Example URLs: https://www1.tyre24.com/images_ts/tyre/6591-tssoap_134633_-w300-h300-br1-134633.jpg On own images: ./assets/images/items/134633/313860.jpg
weight	item weight
ownStock	own item stock
wholesalerArticleNo	wholesaler specific article number
is3PMSF	Contains a value (0/1), whether the tyre is a “3 Peak Mountain Snowflake” tyre or not

Should your request return several search results, the construction **<ns1:items>** will appear multiple times.

getDetails

Is a cooperation set for the shop, the prices of this cooperation are returned.

```
<ns1:getDetails>
  <ns1:token>xxx</ns1:token>
  <ns1:itemId>xxx</ns1:itemId>
  <ns1:minAvailability>xxx</ns1:minAvailability>
  <ns1:imageWidth>XXX</ns1:imageWidth>
  <ns1:imageHeight>XXX</ns1:imageHeight>
  <ns1:ownItemWarehouseId>XXX</ns1:ownItemWarehouseId>
</ns1:getDetails>
```

Here, **token**, **imageWidth**, **imageHeight**, **ownItemWarehouseId** and **minAvailability** have the same meaning as in the **getTyres** request. **itemId** must contain an itemID, which you can extract from an item in the **getTyresResponse** request. **wholesalerID** limits the search result on one or more wholesalers.

Parameter	Required	Description
token	yes	token from authenticateResponse
itemId	yes	ItemId from getTyresResponse
wholesalerID	no	limited result to one or more wholesaler

This is the response you will receive:

```
<ns1:detailPage>
  <ns1:id>xxx</ns1:id>
  <ns1:description>xxx</ns1:description>
  <ns1:description1 />
  <ns1:price>xxx</ns1:price>
  <ns1:text_de> ns1:text_de>
  <ns1:pic_t24>xxx</ns1:pic_t24>
  <ns1:date_de>xxx</ns1:date_de>
  <ns1:source_de>xxx</ns1:source_de>
  <ns1:shortFeedback_de>xxx</ns1:shortFeedback_de>
  <ns1:itemText>xxx</ns1:itemText>
  <ns1:itemDate>xxx</ns1:itemDate>
  <ns1:itemSource>xxx</ns1:itemSource>
  <ns1:shortFeedback>xxx</ns1:shortFeedback>
  <ns1:type>xxx</ns1:type>
  <ns1:org_price>xxx</ns1:org_price>
  <ns1:stock>xxx</ns1:stock>
  <ns1:longFeedback_de>xxx</ns1:longFeedback_de>
  <ns1:longFeedback>xxx</ns1:longFeedback>
  <ns1:wholesalerId>xxx</ns1:wholesalerId>
  <ns1:pr_description>xxx</ns1:pr_description>
```

```

<ns1:manufacturer_description>xxx</ns1:manufacturer_description>
<ns1:matchcode>xxx</ns1:matchcode>
<ns1:ean_number>xxx</ns1:ean_number>
<ns1:manufacturer_item_number>xxx</ns1:manufacturer_item_number>
<ns1:imageUrl>xxx</ns1:imageUrl>
<ns1:weight>xxx</ns1:weight>
<ns1:rollingResistance>A++</ns1:rollingResistance>
<ns1:wetGrip>B</ns1:wetGrip>
<ns1:extRollingNoise>2</ns1:extRollingNoise>
<ns1:extRollingNoiseDb>89</ns1:extRollingNoiseDb>
<ns1:tireClass>C1</ns1:tireClass>
<ns1:tyreLabelUrl>xxx</ns1:tyreLabelUrl>
<ns1:wholesalerArticleNo>xxx</ns1:wholesalerArticleNo>
<ns1:is3PMSF>xxx</ns1:is3PMSF>
</ns1:detailPage>

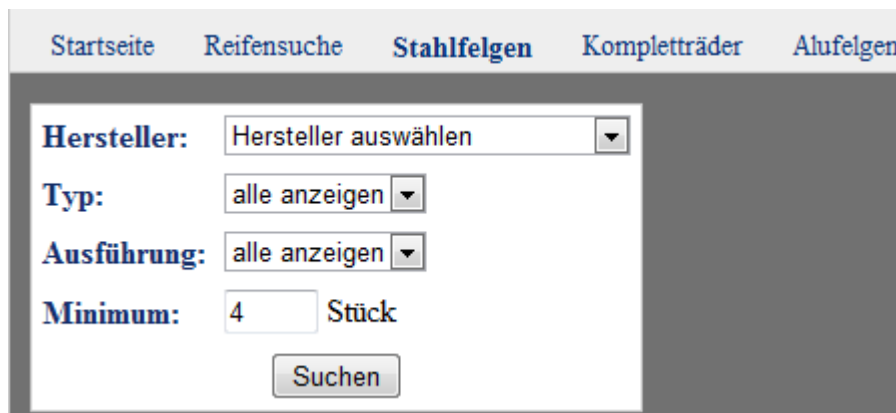
```

id	itemID
description	item name, identical to getTyres
description1	item name continued
price	item price in EUR
text_de	item description text (german)
pic_t24	URL to item image with T24 logo
date_de	date of rating text (german)
source_de	source of rating text (german)
shortFeedback_de	short item rating (german)
itemText	item description text (multilingual)
itemDate	date of rating text (multilingual)
itemSource	source of rating text (multilingual)
shortFeedback	short item rating (multilingual)
type	item type, cf. getTyres
org_price	Same value as in price
stock	item stock
longFeedback_de	long item rating (german)
longFeedback	long item rating (multilingual)
wholesalerId	internal customer ID of wholesaler
pr_description	profile description
manufacturer_description	item manufacturer
matchcode	This is our internal match code. E.g.: W1955015HDUSPWIM3
ean_number	EAN of item
manufacturer_item_number	manufacturer number of item
imageUrl	item image with Tyre-Shopping logo Example URLs: https://www1.tyre24.com/images_ts/tyre/6591-tsoap_134633_-w300-h300-br1-134633.jpg On own images: ./assets/images/items/134633/313860.jpg
weight	item weight in kilogram

rollingResistance	tyre labelling - rolling resistance (A++, A+, A, B, C, D, E, F, G)
wetGrip	tyre labelling - wet grip (A++, A+, A, B, C, D, E, F, G)
extRollingNoise	tyre labelling - external rolling noise (1, 2 or 3)
extRollingNoiseDb	tyre labelling - external rolling noise in dB (two up to three digits)
tireClass	tyre labelling - tyre vehicle class (C1, C2 or C3)
tyreLabelUrl	tyre-label-image for the article
wholesalerArticleNo	wholesaler specific article number
is3PMSF	Contains a value (0/1), whether the tyre is a "3 Peak Mountain Snowflake" tyre or not

Steel Wheel Search

In order to search for steel wheels, you must know which vehicle manufacturers, vehicle types and models we have steel wheels in our system for. Therefore we offer you functions which allow you to offer a steel wheel search that is as comfortable as ours.



The screenshot shows a web interface for searching steel wheels. At the top, there are navigation links: Startseite, Reifensuche, **Stahlfelgen**, Kompletträder, and Alufelgen. Below these, there is a search form with the following fields:

- Hersteller:** A dropdown menu with the text "Hersteller auswählen" and a downward arrow.
- Typ:** A dropdown menu with the text "alle anzeigen" and a downward arrow.
- Ausführung:** A dropdown menu with the text "alle anzeigen" and a downward arrow.
- Minimum:** A text input field containing the number "4" followed by the word "Stück".

At the bottom of the form is a "Suchen" button.

getRimManufacturers

```
<ns1:getRimManufacturers>
  <token>xxx</token>
</ns1:getRimManufacturers>
```

To view a list of all available vehicle manufacturers we offer steel wheels for, you simply need to use the **getRimManufacturers** function. Submit your security token to this function to receive a list of manufacturers.

Parameter	Required	Description
-----------	----------	-------------

token	yes	token from authenticateResponse
-------	-----	---

```
<ns1:rimManufacturerList>
  <ns1:rimManufacturer>Alfa Romeo</ns1:rimManufacturer>
  <ns1:rimManufacturer>AUDI</ns1:rimManufacturer>
  <ns1:rimManufacturer>BMW</ns1:rimManufacturer>
  <ns1:rimManufacturer>Chevrolet-Daewoo(GM)</ns1:rimManufacturer>
  <ns1:rimManufacturer>Chrysler</ns1:rimManufacturer>
  <ns1:rimManufacturer>Citroen</ns1:rimManufacturer>
  <ns1:rimManufacturer>Dacia (Renault)</ns1:rimManufacturer>
  <ns1:rimManufacturer>Daihatsu</ns1:rimManufacturer>
  <ns1:rimManufacturer>Dodge</ns1:rimManufacturer>
  <ns1:rimManufacturer>Fiat</ns1:rimManufacturer>
  <ns1:rimManufacturer>Fiat Nutzfahrzeuge</ns1:rimManufacturer>
  <ns1:rimManufacturer>Ford</ns1:rimManufacturer>
  ...
</ns1:rimManufacturerList>
```

getRimTypesForRimManufacturer

```
<ns1:getRimTypesForRimManufacturer>
  <ns1:token>xxx</ns1:token>
  <ns1:rimManufacturer>xxx</ns1:rimManufacturer>
</ns1:getRimTypesForRimManufacturer>
```

To view a list of all vehicle types by a certain manufacturer, use the **getRimTypesForRimManufacturer** function. Simply submit your security token and the manufacturer's name in the parameter **rimManufacturer**.

Parameter	Required	Description
token	yes	token from authenticateResponse
rimManufacturer	yes	rimManufacturer from getRimManufacturersResponse

As a response you will receive all available vehicle types by this manufacturer:

```
<ns1:rimTypeList>
  <ns1:rimType>xxx</ns1:rimType>
  <ns1:rimType>xxx</ns1:rimType>
  <ns1:rimType>xxx</ns1:rimType>
  <ns1:rimType>xxx</ns1:rimType>
  <ns1:rimType>xxx</ns1:rimType>
  ..
</ns1:rimTypeList>
```

getRimWorkmanshipForRimType

```
<ns1:getRimWorkmanshipForRimType>
  <ns1:token>xxx</ns1:token>
  <ns1:rimType>xxx</ns1:rimType>
</ns1:getRimWorkmanshipForRimType>
```

The function **getRimWorkmanshipForRimType** gives you all available models of a specific vehicle type.

Parameter	Required	Description
token	yes	token from authenticateResponse
rimType	yes	rimType from getRimTypesForRimManufacturerResponse

The response to this request looks like this:

```
<ns1:rimWorkmanshipList>
  <ns1:rimWorkmanship>xxx</ns1:rimWorkmanship>
  <ns1:rimWorkmanship>xxx</ns1:rimWorkmanship>
  ...
</ns1:rimWorkmanshipList>
```

getRims

```
<ns1:getRims>
  <ns1:token>xxx</ns1:token>
  <ns1:rimManufacturer>xxx</ns1:rimManufacturer>
  <ns1:rimType>xxx</ns1:rimType>
  <ns1:rimWorkmanship>xxx</ns1:rimWorkmanship>
</ns1:getRims>
```

The function **getRims** gives you a list with all fitting dimensions available for your chosen combination of manufacturer, type and model.

Parameter	Required	Description
token	yes	token from authenticateResponse
rimManufacturer	yes	rimManufacturer from getRimManufacturersResponse
rimType	no	rimType from getRimTypesForRimManufacturerResponse
rimWorkmanship	no	workmanship from

		getRimWorkmanshipForRimTypeResponse
--	--	---

```

<ns1:rimList>
  <ns1:items>
    <ns1:id>xxx</ns1:id>
    <ns1:manufacturer>xxx</ns1:manufacturer>
    <ns1:workmanship>xxx</ns1:workmanship>
    <ns1:type>xxx</ns1:type>
    <ns1:ezFrom>xxx<ns1:ezFrom>
    <ns1:size>xxx</ns1:size>
    <ns1:connection>xxx</ns1:connection>
    <ns1:ET>xxx</ns1:ET>
    <ns1:alcar>xxx</ns1:alcar>
    <ns1:description>xxx</ns1:description>
    <ns1:typeDescription>xxx</ns1:typeDescription>
  </ns1:items>
</ns1:rimList>

```

id	itemID
manufacturer	item manufacturer
workmanship	model
type	wheel type
ezFrom	vehicle registration date
size	size in inches
connection	fitting dimensions
ET	offset/half dual spacing
alcar	steel wheel number
description	description of article
typeDescription	description text of wheel type

searchRims

```

<ns1:searchRims>
  <ns1:token>xxx</ns1:token>
  <ns1:alcar>xxx</ns1:alcar>
  <ns1:minAvailability>xxx</ns1:minAvailability>
  <ns1:showOldItems>xxx</ns1:showOldItems>
</ns1:searchRims>

```

To get a list with all rims available for order, you can use the **searchRims** function. If the value of the optional parameter **showOldItems** is **1**, discontinued rims are included in the search.

Parameter	Required	Description
token	yes	token from authenticateResponse

alcar	yes	alcar from getRimsResponse
minAvailability	yes	minium amount for searched rims type: integer
showOldItems	no	show discontinued rims type: integer (0 oder 1)

Your response will be the following XML document with **maximum 1000** rims:

```

<ns1:searchRimsResponse>
  <ns1:items>
    <ns1:itemId>xxx</ns1:itemId>
    <ns1:description>SF xxx MINI NEU 5,5X15</ns1:description>
    <ns1:description1>xxx</ns1:description1>
    <ns1:price>xxx</ns1:price>
    <ns1:org_price>xxx</ns1:org_price>
    <ns1:stock>xxx</ns1:stock>
    <ns1:kbprice>xxx</ns1:kbprice>
    <ns1:discount>xxx</ns1:discount>
    <ns1:text_de>xxx</ns1:text_de>
    <ns1:pic />
    <ns1:pic_t24>xxx</ns1:pic_t24>
    <ns1:date_de />
    <ns1:source_de />
    <ns1:feedback_de />
    <ns1:itemText>xxx</ns1:itemText>
    <ns1:itemDate>xxx</ns1:itemDate>
    <ns1:itemSource>xxx</ns1:itemSource>
    <ns1:shortFeedback>xxx</ns1:shortFeedback>
    <ns1:pr_description>xxx</ns1:pr_description>
    <ns1:manufacturer_description>xxx</ns1:manufacturer_description>
    <ns1:type>xxx</ns1:type>
    <ns1:matchcode>xxx</ns1:matchcode>
    <ns1:ean_number>xxx</ns1:ean_number>
    <ns1:manufacturer_item_number>xxx</ns1:manufacturer_item_number>
    <ns1:imageUrl>xxx</ns1:imageUrl>
    <ns1:ownStock>xxx</ns1:ownStock>
    <ns1:wholesalerArticleNo>xxx</ns1:wholesalerArticleNo>
  </ns1:items>
  ...
</ns1:searchRimsResponse>

```

itemId	itemId
description	item name

description1	item name continued
price	item price in EUR
org_price	Same value as in price
stock	item stock
kbprice	calculation base price
discount	always 0
text_de	description text of item
pic_t24	URL to item image with T24 logo
source_de	source of description text
feedback_de	rating text of item
itemText	item description text (multilingual)
itemDate	date of rating text (multilingual)
itemSource	source of rating text (multilingual)
shortFeedback	short item rating (multilingual)
manufacturer	manufacturer name
type	always has the value "c" for steel wheels
matchcode	This is our internal match code. E.g.: W1955015HDUSPWIM3
ean_number	EAN of item
manufacturer_item_number	manufacturer number of item
imageUrl	item image with Tyre Shopping logo
ownStock	true when item is from own stock
wholesalerArticleNo	wholesaler specific article number

The itemID which you can get from an item here, can be used in the **getDetails** function to view the details page for a steel wheel.

Alloy wheel search (new)

getComfortAlloyRimCarBrands

get car manufacturer list:

```
<ns:getComfortAlloyRimCarBrands>
  <ns:token>xxx</ns:token>
  <ns:showMain>1</ns:showMain>
  <ns:showNormal>1</ns:showNormal>
</ns:getComfortAlloyRimCarBrands>
```

The grey fields are optional. If these both are set to 1 or none of them is set, you will receive a list of all manufacturers.

Parameter	Required	Description
token	yes	token from authenticateResponse
showMain	no	if set 1 and showNormal set 0, then only get result of main manufacturer. type: integer (0 or 1)
showNormal	no	if set 1 and showMain set 0, then get result of all manufacturer without main manufacturer. type: integer (0 or 1)

```
<ns1: getComfortAlloyRimCarBrandsResponse>
  <ns1: alloyRimCarBrand >
    <ns1: brandID>26</ns1: brandID >
    <ns1: brand> Audi </ns1: brand >
  </ns1: alloyRimCarBrand >
  <ns1: alloyRimCarBrand >
    ...
  </ns1: alloyRimCarBrand >
  ...
</ns1: getComfortAlloyRimCarBrandsResponse>
```

getComfortAlloyRimCarModels

get car model list:

```
<ns: getComfortAlloyRimCarModels>
  <ns: token>xxx</ns:token>
  <ns: brandID >26</ns: brandID > // brandID from getComfortAlloyRimCarBrands
</ns: getComfortAlloyRimCarModels>
```

Parameter	Required	Description
token	yes	token from authenticateResponse
brandID	yes	brandID from getComfortAlloyRimCarBrandsResponse

```
<ns1: getComfortAlloyRimCarModelsResponse>
  <ns1: alloyRimCarModel >
    <ns1: modelID>163</ns1: modelID >
    <ns1: model>100 </ns1: model >
  </ns1: alloyRimCarModel >

  <ns1: alloyRimCarModel >
  ...
  </ns1: alloyRimCarModel >
  ...
</ns1: getComfortAlloyRimCarModelsResponse>
```

getComfortAlloyRimCarTypes

get car type list:

```
<ns:getComfortAlloyRimCarTypes>
  <ns: token>xxx</ns:token>
  <ns: brandID >26</ns: brandID > // brandID from
  getComfortAlloyRimCarBrandsResponse
  <ns: modelID >163</ns: modelID > // modelID from
  getComfortAlloyRimCarModelsResponse
  <ns: carPicWidth>300</ns: carPicWidth> // requested width for car image
  <ns: carPicHeight>300</ns: carPicHeight> // requested height for car image
</ns: getComfortAlloyRimCarTypes >
```

Parameter	Required	Description
token	yes	token from authenticateResponse
brandID	yes	brandID from getComfortAlloyRimCarBrandsResponse
modellID	yes	modellID from getComfortAlloyRimCarModelsResponse

```

<ns1: getComfortAlloyRimCarTypesResponse >
  <ns1: alloyRimCarType >
    <ns1: carID>834</ns1: carID>
    <ns1: carType>C4</ns1: carType>
    <ns1: carTypeDesc>T2</ns1: carTypeDesc>
    <ns1: manufactureYear > 12.1990 - 06.1994 </ns1: manufactureYear >
    <ns1: carComment > Ohne Radhaus-Verbreiterungen </ns1: carComment >
    <ns1:
  carPic>https://www1.tyre24.com/images/carpic/cp_834_nobr-soap-w165-h130.jpg</
  ns1: carPic>
  </ns1: alloyRimCarType >
</ns1: alloyRimCarType >
...

</ns1: alloyRimCarType >
.....
</ns1: getComfortAlloyRimCarTypesResponse >

```

getComfortAlloyRimCarInfo

get additional car details:

(not necessary for alloy search!)

```

<ns: getComfortAlloyRimCarInfo>
  <ns: token>xxx</ns:token>
  <ns: carID >834</ns: carID > // carID from getComfortAlloyRimCarTypesResponse
  <ns: carPicWidth>300</ns: carPicWidth> // requested width for car image
  <ns: carPicHeight>300</ns: carPicHeight> // requested height for car image
</ns: getComfortAlloyRimCarInfo >

```

Parameter	Required	Description
token	yes	token from authenticateResponse
carID	yes	carID from getComfortAlloyRimCarTypesResponse

```

<ns1: getComfortAlloyRimCarInfoResponse >
  <ns1: carManufacturer> Audi </ns1: carManufacturer>
  <ns1: carModel> 100 </ns1: carModel>
  <ns1: carType> C4 </ns1: carType>
  <ns1: carTypeDesc> T2 </ns1: carTypeDesc>
  <ns1: manufactureYear > 12.1990 - 06.1994 </ns1: manufactureYear >
  <ns1: holeNumber > 5 </ns1: holeNumber >
  <ns1: holeCircle > 112.00 </ns1: holeCircle >
  <ns1: hubHole > 57.10 </ns1: hubHole > //Nabenloch
  <ns1: permitNumber > F619, /1 </ns1: permitNumber >
  <ns1: carComment > Ohne Radhaus-Verbreiterungen </ns1: carComment >
  <ns1:
carPic>https://www1.tyre24.com/images/carpic/cp_834_nobr-soap-w300-h300.jpg</ns1:
carPic>
</ns1: getComfortAlloyRimCarInfoResponse >

```

getComfortAlloyRimDiameters

get alloy rim diameter list:

```

<ns: getComfortAlloyRimDiameters>
  <ns: token>xxx</ns: token>
  <ns: carID >834</ns: carID > // carID from getComfortAlloyRimCarTypesResponse
  <ns: ownStock>xx</ns: ownStock>
</ns: getComfortAlloyRimDiameters >

```

After you choosed the desired car, you can start with the alloy rim search. Therefore you always need the carID from getComfortAlloyRimCarTypes response.

The optional ownStock parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

Parameter	Required	Description
token	yes	token from authenticateResponse
carID	yes	carID from getComfortAlloyRimCarTypesResponse
ownStock	no	If indicated, supplies at 0 - article from Tyre24 stock 1 - article from own stock type: integer (0 or 1)

```
<ns1: getComfortAlloyRimDiametersResponse >
  <ns1: alloyRimDiameter > 19</ns1: alloyRimDiameter >
  <ns1: alloyRimDiameter > 18</ns1: alloyRimDiameter >
  <ns1: alloyRimDiameter > 17</ns1: alloyRimDiameter >
  ...
</ns1: getComfortAlloyRimDiametersResponse >
```

getComfortAlloyRimAttachments

get alloy rim attachment list:

```
<ns: getComfortAlloyRimAttachments>
  <ns: token>xxx</ns: token>
  <ns: carID>834</ns: carID> // carID from getComfortAlloyRimCarTypesResponse

  // alloyRimDiameter from getComfortAlloyRimDiametersResponse
  <ns: alloyRimDiameter > 19</ns: alloyRimDiameter >
  <ns: ownStock>xxx</ns: ownStock>
</ns: getComfortAlloyRimAttachments >
```

If there is a combination for this vehicle, then in addition the data of the rear axle are shown. The optional ownStock parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

Parameter	Required	Description
token	yes	token from authenticateResponse
carID	yes	carID from getComfortAlloyRimCarTypesResponse
alloyRimDiameter	yes	alloyRimDiameter from getComfortAlloyRimDiametersResponse
ownStock	no	If indicated, supplies at 0 - article from Tyre24 stock 1 - article from own stock type: integer (0 or 1)

```
<ns1: getComfortAlloyRimAttachmentsResponse>
  <ns1: alloyRimAttachmentsList >
    <ns1: alloyRimFrontDiameter >19</ns1: alloyRimFrontDiameter >
    <ns1: alloyRimRearDiameter >19</ns1: alloyRimRearDiameter >
    <ns1: alloyRimFrontWidth>8.00</ns1: alloyRimFrontWidth >
    <ns1: alloyRimRearWidth >8.50</ns1: alloyRimRearWidth >
  </ns1: alloyRimAttachmentsList >
```

```

<ns1: alloyRimAttachmentsList >
...
</ns1: alloyRimAttachmentsList >
...
</ns1: getComfortAlloyRimAttachmentsResponse >

```

getComfortAlloyRimManufacturers

get alloy rim manufacturer list:

```

<ns: getComfortAlloyRimManufacturers>
  <ns: token>xxx</ns:token>
  <ns: carID>834</ns: carID> // carID from getComfortAlloyRimCarTypesResponse
  <ns: alloyRimFrontDiameter >19</ns: alloyRimFrontDiameter >
  <ns: alloyRimRearDiameter >19</ns: alloyRimRearDiameter >
  <ns: alloyRimFrontWidth >8.50</ns: alloyRimFrontWidth >
  <ns: alloyRimRearWidth >9.50</ns: alloyRimRearWidth >
  <ns: ownStock>xxx</ns: ownStock>
</ns: getComfortAlloyRimManufacturers >

```

The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

Parameter	Required	Description
token	yes	token from authenticateResponse
carID	yes	carID from getComfortAlloyRimCarTypesResponse
alloyRimFrontDiameter	yes	alloyRimFrontDiameter from getComfortAlloyRimAttachmentsResponse
alloyRimRearDiameter	no	alloyRimRearDiameter from getComfortAlloyRimAttachmentsResponse
alloyRimFrontWidth	no	alloyRimFrontWidth from getComfortAlloyRimAttachmentsResponse
alloyRimRearWidth	no	alloyRimRearWidth from getComfortAlloyRimAttachmentsResponse
ownStock	no	If indicated, supplies at 2 - article from Tyre24 stock 3 - article from own stock

		type: integer (0 or 1)
--	--	------------------------

The grey fields are optional. These can be filled according to the [alloyRimAttachmentsList](#) to further restrict the result.

```
<ns1: getComfortAlloyRimManufacturersResponse >
  <ns1: alloyRimManufacturersList >
    <ns1:manufacturerID>48 </ns1: manufacturerID >
    <ns1: manufacturer> DBV</ns1: manufacturer >
  </ns1: alloyRimManufacturersList >
  <ns1: alloyRimManufacturersList >
    ...
  </ns1: alloyRimManufacturersList >
  ...
</ns1: getComfortAlloyRimManufacturersResponse >
```

getComfortAlloyRims

alloy rim search:

```
<ns: getComfortAlloyRims>
  <ns: token>xxx</ns:token>
  <ns: carID>834</ns: carID> // carID from getComfortAlloyRimCarTypesResponse
  <ns: alloyRimFrontDiameter >19</ns: alloyRimFrontDiameter >
  <ns: alloyRimRearDiameter >19</ns: alloyRimRearDiameter >
  <ns: alloyRimFrontWidth >8.50</ns: alloyRimFrontWidth >
  <ns: alloyRimRearWidth >9.50</ns: alloyRimRearWidth >
  <ns: manufacturerID>48 </ns: manufacturerID >
  <ns: imageWidth>170 </ns: imageWidth>
  <ns: imageHeight> 170 </ns: imageHeight>
  <ns: ownStock>xxx</ns: ownStock>
  <ns:priceList>xx</ns:priceList>
  <ns:limit>xx</ns:limit>
  <ns:page>xxx</ns:page>
  <ns:winterFitFront>x</ns:winterFitFront>
  <ns:winterFitRear>x</ns:winterFitRear>
  <ns:hubHoleTypeFront>x</ns:hubHoleTypeFront>
  <ns:hubHoleTypeRear></ns:hubHoleTypeRear>
  <ns:sort>x</ns:sort>
</ns: getComfortAlloyRims >
```

Use **imageWidth** and **imageHeight** to change the dimension of the item image (in px). Default image size is 170 x 170 px.

With the optional parameters pricelist the price list of the dealer can be set, if not set, the EC price is used.

The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

Parameter for SOAP-Request **getComfortAlloyRims**

Parameter	Required	Description
token	yes	token from authenticateResponse
carID	yes	carID from getComfortAlloyRimCarTypesResponse
limit	no	Number of results type: integer
page	no	Site of result, if limit is set type: integer
winterFitFront	no	filter front alloy for winter fit type: 1 or 0
winterFitRear	no	filter rear alloy for winter fit type: 1 or 0
hubHoleTypeFront	no	hub hole for front alloy type: integer <ul style="list-style-type: none"> - 0 = no hub hole - 1 = fixed bored - 2 = multiflex - 3 = top bore
hubHoleTypeRear	no	hub hole for rear alloy type: integer <ul style="list-style-type: none"> - 0 = no hub hole - 1 = fixed bored - 2 = multiflex - 3 = top bore
sort	no	types of sort for lister type: integer <ul style="list-style-type: none"> - 1 = price ascending - 2 = price descending - 3 = alloy manufacturer alphabetically ascending

As part of the v18 update we send a maximum of 1000 entries back.

Parameter des SOAP-Aufrufs **getComfortAlloyRims**

```

<ns1: getComfortAlloyRimsResponse>
  <ns1: comfortAlloyRimsList >
    <ns1: alloyRimFrontID >2062 </ns1: alloyRimFrontID >
    <ns1: alloyRimFrontPrice>191.00</ns1: alloyRimFrontPrice > //prices always €
    <ns1: alloyRimFrontPriceEC>191.00</ns1: alloyRimFrontPriceEC >
    <ns1: alloyRimFrontStock > 4</ns1: alloyRimFrontStock >
    <ns1: alloyRimFrontDescription> 8.50 x 19 ET 30 5x112
    </ns1: alloyRimFrontDescription >
    <ns1: alloyRimFrontWidth > 8.50 </ns1: alloyRimFrontWidth >
    <ns1: alloyRimFrontDiameter > 19</ns1: alloyRimFrontDiameter >
    <ns1: alloyRimFrontET > 30</ns1: alloyRimFrontET >
    <ns1: alloyRimFrontLochzahl > 5</ns1: alloyRimFrontLochzahl >
    <ns1: alloyRimFrontLochkreis > 112</ns1: alloyRimFrontLochkreis >
    <ns1: alloyRimFrontHubHole> 54.10</ns1: alloyRimFrontHubHole>
    <ns1: alloyRimFrontHubHoleType>3</ns1: alloyRimFrontHubHoleType>
    <ns1: alloyRimFrontOwnStock> 1</ns1: alloyRimFrontOwnStock >
    <ns1: alloyRimFrontWholesalerArticleNo>AAA1234567</ns1: alloyRimFrontWholesalerArticleNo>
    <ns1: alloyRimRearID> 2442</ns1: alloyRimRearID >
    <ns1: alloyRimRearPrice>170.00</ns1: alloyRimRearPrice > //prices always €
    <ns1: alloyRimRearPriceEC>170.00</ns1: alloyRimRearPriceEC >
    <ns1: alloyRimRearStock> 4</ns1: alloyRimRearStock >
    <ns1: alloyRimRearDescription >9.50 x 19 ET 30 5x112
    </ns1: alloyRimRearDescription >
    <ns1: alloyRimRearWidth > 9.50 </ns1: alloyRimRearWidth >
    <ns1: alloyRimRearDiameter > 19</ns1: alloyRimRearDiameter >
    <ns1: alloyRimRearET > 30</ns1: alloyRimRearET >
    <ns1: alloyRimRearLochzahl> 5</ns1: alloyRimRearLochzahl>
    <ns1: alloyRimRearLochkreis> 112</ns1: alloyRimRearLochkreis>
    <ns1: alloyRimRearHubHole> 54.10</ns1: alloyRimRearHubHole>
    <ns1: alloyRimRearHubHoleType>3</ns1: alloyRimRearHubHoleType>
    <ns1: alloyRimRearOwnStock> 0</ns1: alloyRimRearOwnStock >
    <ns1: alloyRimRearWholesalerArticleNo>AAA1234567</ns1: alloyRimRearWholesalerArticleNo>
    <ns1: manufacturer > ASA</ns1: manufacturer >
    <ns1: type >AR1 Silber Hornpoliert(SML) Einteilig </ns1: type >
    <ns1: typeName >AR1</ns1: typeName >
    <ns1: typeColor >Silber Hornpoliert(SML)</ns1: typeColor >
    <ns1: typeConstruction >Einteilig</ns1: typeConstruction >
    <ns1: imageUrl>https://www1.tyre24.com/images_ts/alloy/v3/310/5/2_Freistellen--w170-h170-br0.png</ns1: imageUrl>
    <ns1: alloysPromo>1</ns1: alloysPromo>
  </ns1: comfortAlloyRimsList >

  <ns1: comfortAlloyRimsList >
    ...
  </ns1: comfortAlloyRimsList >

```

...
</ns1: getComfortAlloyRimsResponse >

alloyRimFrontHubHoleType / alloyRimRearHubHoleType:

centre bore type (integer; 0=no centre bore, 1=fix centre bore, 2=flexible diameter down, 3=drilling centre bore upwards)

alloyRimFrontOwnStock	identifies own stock of the front alloy rim
alloyRimRearOwnStock	identifies own stock of the rear alloy rim
alloyRimFrontWholesalerArticleNo	wholesaler article number of own stock front alloy rim (if available)
alloyRimRearWholesalerArticleNo	wholesaler article number of own stock rear alloy rim (if available)

getComfortAlloyRimDetails

get additional information for an alloy rim:

```
<ns: getComfortAlloyRimDetails>
  <ns: token>xxx</ns:token>
  <ns: alloyRimFrontID >2062 </ns: alloyRimFrontID >
  <ns: alloyRimRearID > 2442</ns: alloyRimRearID >
  <ns: imageWidth>300 </ns: imageWidth>
  <ns: imageHeight> 300</ns: imageHeight>
  <ns: carID>990</ns: carID>
  <ns: ownStock>xxx</ns: ownStock>
  <ns: priceList>xx</ns: priceList>
</ns: getComfortAlloyRimDetails >
```

The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

Note: carID is optional, but it must be set for vehicle specific informations, technical reports, HDRI-images, etc.

If the optional parameter **alloyRimRearID** is specified, then the response will contain also the details for a combination rim.

With the optional parameters **pricelist** the price list of the dealer can be set, if not set, the EC price is used.

Use `imageWidth` and `imageHeight` to change the dimension of the item image (in px).
Default image size is 300 x 300 px.

You can get url's to HDRI car images if you provide the optional parameter `carID`.

The response parameters are named `carSceneUrl000` to `carSceneUrl211`

Definition of `carSceneUrlXYZ`:

-> X (car colors): 0-2 (0 -> close to black, 1 -> close to red, 2 -> close to white)

-> Y (Scenes): 0-1 (0 -> first scene, 1 -> second Szene)

-> Z (size): 0-1 (0 -> thumbnail 69px width, 1 -> 713px width)

The height of the image is proportional.

The response parameter `technicalReports` can be empty or may occur multiple times.

It contains data to matching technical reports.

The response parameter `technicalReportsAdditional` can be empty or may occur multiple times.

It contains data to additional matching technical reports.

A technical report has the following response parameters

`type_description` contains a description of the alloy type of the report

`report_nr` contains a report number

`tuev` is either 1=South 2=Palatinate 3=Austria

`report_type` is either 1=technical component report 2=operating certificate 3=annex to operating certificate 4=ECE technical report

`creation_date` = Date of technical report

`from_date` = vehicle year & month of construction start

`to_date` = vehicle year & month of construction end

`alloyRimFrontHubHoleType / alloyRimRearHubHoleType:m`

centre bore type (integer; 0=no centre bore, 1=fix centre bore, 2=flexible diaeter down, 3=drilling centre bore upwards)

```
<ns1: getComfortAlloyRimDetailsResponse >
```

```
<ns1: alloyRimFrontPrice >191.00</ns1: alloyRimFrontPrice > // prices always EUR
```

```
<ns1: alloyRimFrontPriceEC>191.00</ns1: alloyRimFrontPriceEC >
```

```
<ns1: alloyRimFrontStock > 4</ns1: alloyRimFrontStock >
```

```
<ns1: alloyRimFrontDescription > 8.50 x 19 ET 30 5x112</ns1:
```

```
alloyRimFrontDescription >
```

```
<ns1: alloyRimFrontWidth > 8.50 </ns1: alloyRimFrontWidth >
```

```
<ns1: alloyRimFrontDiameter > 19</ns1: alloyRimFrontDiameter >
```

```
<ns1: alloyRimFrontET > 30</ns1: alloyRimFrontET >
```

```
<ns1: alloyRimFrontLochzahl > 5</ns1: alloyRimFrontLochzahl >
```

```
<ns1: alloyRimFrontLochkreis > 112</ns1: alloyRimFrontLochkreis >
```

```
<ns1: alloyRimFrontHubHole> 54.10</ns1: alloyRimFrontHubHole>
```

```
<ns1: alloyRimFrontHubHoleType>3</ns1: alloyRimFrontHubHoleType>
```

```
<ns1: alloyRimFrontOwnStock> 1</ns1: alloyRimFrontOwnStock >
```

```
<ns1: alloyRimFrontWholesalerArticleNo>AAA1234567</ns1: alloyRimFrontWholesale  
rArticleNo>
```

```
<ns1: alloyRimRearPrice >170.00</ns1: alloyRimRearPrice > // prices always EUR
```

```
<ns1: alloyRimRearPriceEC>170.00</ns1: alloyRimRearPriceEC >
```

```

<ns1:alloyRimRearStock > 4</ns1: alloyRimRearStock >
<ns1:alloyRimRearDescription >9.50 x 19 ET 30 5x112 </ns1: alloyRimRearDescription
>
<ns1:alloyRimRearWidth > 9.50 </ns1: alloyRimRearWidth >
<ns1:alloyRimRearDiameter > 19</ns1: alloyRimRearDiameter >
<ns1:alloyRimRearET > 30</ns1: alloyRimRearET >
<ns1:alloyRimRearLochzahl> 5</ns1: alloyRimRearLochzahl>
<ns1:alloyRimRearLochkreis> 112</ns1: alloyRimRearLochkreis>
<ns1:alloyRimRearHubHole> 54.10</ns1: alloyRimRearHubHole>
<ns1:alloyRimRearHubHoleType>3</ns1: alloyRimRearHubHoleType>
<ns1:alloyRimRearOwnStock> 0</ns1: alloyRimRearOwnStock >
<ns1:alloyRimRearWholesalerArticleNo>AAA1234567</ns1:alloyRimRearWholesaler
ArticleNo>
<ns1:manufacturer > ASA</ns1: manufacturer >
<ns1:type >AR1 Silber Hornpoliert(SML) Einteilig </ns1: type >
<ns1:typeName >AR1</ns1: typeName >
<ns1:typeColor >Silber Hornpoliert(SML)</ns1: typeColor >
<ns1:typeConstruction >Einteilig</ns1: typeConstruction >
<ns1:imageUrl>
https://www1.tyre24.com/images_ts/alloy/v3/310/5/2_Freistellen--w300-h300-br0-0.png
</ns1: imageUrl>
<ns1: carSceneUrl000>http://xxx </ns1: carSceneUrl000>
<ns1: carSceneUrl001>http://xxx </ns1: carSceneUrl001>
<ns1: carSceneUrl010>http://xxx </ns1: carSceneUrl010>
<ns1: carSceneUrl011>http://xxx </ns1: carSceneUrl011>
<ns1: carSceneUrl100>http://xxx </ns1: carSceneUrl100>
<ns1: carSceneUrl101>http://xxx </ns1: carSceneUrl101>
<ns1: carSceneUrl110>http://xxx </ns1: carSceneUrl110>
<ns1: carSceneUrl111>http://xxx </ns1: carSceneUrl111>
<ns1: carSceneUrl200>http://xxx </ns1: carSceneUrl200>
<ns1: carSceneUrl201>http://xxx </ns1: carSceneUrl201>
<ns1: carSceneUrl210>http://xxx </ns1: carSceneUrl210>
<ns1: carSceneUrl211>http://xxx </ns1: carSceneUrl211>
<ns1: technicalComponentReport>url of the technical component report</ns1:
technicalComponentReport>
<ns1: technicalComponentReportDate>date of the technical component
report</ns1: technicalComponentReportDate>
<ns1: generalOperating>url of the general operation report</ns1: generalOperating>
<ns1: generalOperatingDate>date of the general operation report</ns1:
generalOperatingDate >
<ns1: strengthReport>url of the strength report</ns1: strengthReport>
<ns1: strengthReportDate>date of the strength report</ns1: strengthReportDate >
<ns1: alloysPromo>1</ns1: alloysPromo>
<ns1:technicalReports>
<ns1:url>https://www1.tyre24.com/public/technical_reports/37/p851950-
1305715-10-0109-a15-v01.pdf</ns1:url>
<ns1:type_description>P</ns1:type_description>
<ns1:report_type>1</ns1:report_type>
<ns1:report_nr>10-0109-A15-V01</ns1:report_nr>
<ns1:tuev>2</ns1:tuev>

```

```

<ns1:creation_date>20130201</ns1:creation_date>
<ns1:from_date>200407</ns1:from_date>
<ns1:to_date>201309</ns1:to_date>
</ns1:technicalReports>
<ns1:technicalReportsAdditional>
  <ns1:url>https://www1.tyre24.com/public/technical_reports/37/
p851950p111950-1305715-10-0827-a00-v01.pdf</ns1:url>
  <ns1:type_description>P</ns1:type_description>
  <ns1:report_type>1</ns1:report_type>
  <ns1:report_nr>10-0827-A00-V01</ns1:report_nr>
  <ns1:tuev>2</ns1:tuev>
<ns1:creation_date>20130201</ns1:creation_date>
<ns1:from_date>200407</ns1:from_date>
<ns1:to_date>201309</ns1:to_date>
</ns1:technicalReportsAdditional>
</ns1: getComfortAlloyRimDetailsResponse >

```

red marked response parameters are deprecated

alloyRimFrontOwnStock	identifies own stock of the front alloy rim
alloyRimRearOwnStock	identifies own stock of the rear alloy rim
alloyRimFrontWholesalerArticleNo	wholesaler specific article number of own stock front alloy rim (if available)
alloyRimRearWholesalerArticleNo	wholesaler specific article number of own stock rear alloy rim (if available)

Alloy wheel search (old)

getAlloyRims

```

<ns1:getAlloyRims>
  <ns1:token>xxx</ns1:token>
  <ns1:minAvailability>xxx</ns1:minAvailability>
  <ns1:alloyRimBinding>xxx</ns1:alloyRimBinding>
  <ns1:alloyRimDiameter>xxx</ns1:alloyRimDiameter>
  <ns1:alloyRimManufacturer>xxx</ns1:alloyRimManufacturer>
  <ns1:alloyRimType>xxx</ns1:alloyRimType>

```

```

    <ns1:ownStock>xxx</ns1:ownStock>
    <ns:priceList>xx</ns:priceList>
</ns1:getAlloyRims>

```

To receive a list with available alloy wheels, you need to submit only one of the four search parameters. You must use at least one, however. Please keep in mind that **alloyRimType** is dependent on **alloyRimManufacturer** and you actually have a choice between three parameters. With the optional parameters **pricelist** the price list of the dealer can be set, if not set, the EC price is used.

The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

As part of the v18 update we send a maximum of 1000 entries back.

```

<ns1:getAlloyRimsResponse>
  <ns1:alloyRim>
    <ns1:id>xxx</ns1:id>
    <ns1:manufacturer>xxx</ns1:manufacturer>
    <ns1:description>xxx</ns1:description>
    <ns1:connectingDimensions>xxx</ns1:connectingDimensions>
    <ns1:type>xxx</ns1:type>
    <ns1:price>xxx</ns1:price>
    <ns1:stock>xxx</ns1:stock>
    <ns1:pic_t24>xxx</ns1:pic_t24>
    <ns1:imageUrl>xxx</ns1:imageUrl>
    <ns1:wholesalerArticleNo>xxx</ns1:wholesalerArticleNo>
    <ns1:ownStock>xxx</ns1:ownStock>
  </ns1:alloyRim>
  <n1:alloyRim>
    ...
  </n1:alloyRim>
  ...
</ns1:getAlloyRimsResponse>

```

id	alloy wheelID
manufacturer	alloy wheel manufacturer
description	alloy wheel description
connectingDimensions	fitting dimensions
type	type of alloy wheel
price	price

stock	stock
pic_t24	item image with T24 logo (old)
imageUrl	item image with Tyre-Shopping logo
wholesalerArticleNo	wholesaler specific article number of own stock alloy rim (if available)
ownStock	own stock item flag

getAlloyRimBindings

```
<ns:getAlloyRimBindings>
  <ns:token>xxx</ns:token>
  <ns:ownStock>xxx</ns:ownStock>
</ns:getAlloyRimBindings>
```

Returns the number of holes and the hole circle back for all alloy wheels.

The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

```
<ns1:getAlloyRimBindingsResponse>
  <ns1:alloyRimBinding>5x120.65</ns1:alloyRimBinding>
  <ns1:alloyRimBinding>5x127</ns1:alloyRimBinding>
  <ns1:alloyRimBinding>5x130</ns1:alloyRimBinding>
  <ns1:alloyRimBinding>5x135</ns1:alloyRimBinding>
  <ns1:alloyRimBinding>5x139.7</ns1:alloyRimBinding>
  <ns1:alloyRimBinding>5x150</ns1:alloyRimBinding>
  <ns1:alloyRimBinding>5x160</ns1:alloyRimBinding>
</ns1:getAlloyRimBindingsResponse>
```

getAlloyRimDetails

```
<ns1:getAlloyRimDetails>
  <ns1:token>xxx</ns1:token>
  <ns1:minAvailability>xxx</ns1:minAvailability>
  <ns1:alloyRimId>xxx</ns1:alloyRimId>
  <ns1:imageWidth>xxx</ns1:imageWidth>
  <ns1:imageHeight>xxx</ns1:imageHeight>
  <ns1:ownStock>x</ns1:ownStock>
  <ns:priceList>xx</ns:priceList>
```

```
</ns1:getAlloyRimDetails>
```

To request the details page of an alloy wheel, all you need is the alloy wheelID from one of the **getAlloyRims** requests and the desired minimum quantity.

With the optional parameters **pricelist** the price list of the dealer can be set, if not set, the EC price is used.

The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

```
<ns1:getAlloyRimDetailsResponse>
  <ns1:id>xxx</ns1:id>
  <ns1:manufacturer>xxx</ns1:manufacturer>
  <ns1:description>xxx</ns1:description>
  <ns1:connectingDimensions>xxx</ns1:connectingDimensions>
  <ns1:alloyRimDescription />
  <ns1:alloyManufacturerDescription>xxx</ns1:alloyManufacturerDescription>
  <ns1:price>xxx</ns1:price>
  <ns1:stock>xxx</ns1:stock>
  <ns1:pic_t24>xxx</ns1:pic_t24>
  <ns1:imageUrl>xxx</ns1:imageUrl>
  <ns1:wholesalerArticleNo>xxx</ns1:wholesalerArticleNo>
  <ns1:ownStock>xxx</ns1:ownStock>
</ns1:getAlloyRimDetailsResponse>
```

id	alloy wheelID
manufacturer	manufacturer
description	name of alloy wheel
connectingDimensions	connection dimensions
alloyRimDescription	description text of alloy wheel
alloyManufacturerDescription	descriptiontext for alloy wheel manufacturer
price	price
stock	stock
pic_t24	item image with T24 logo (old)
imageUrl	item image with Tyre-Shopping logo

wholesalerArticleNo	wholesaler specific article number of own stock alloy rim (if available)
ownStock	own stock item flag

getAlloyRimDiameters

```
<ns:getAlloyRimDiameters>
  <ns:token>xxx</ns:token>
  <ns:minAvailability>xx</ns:minAvailability>
  <ns:alloyRimBinding></ns:alloyRimBinding>
  <ns:ownStock></ns:ownStock>
</ns:getAlloyRimDiameters>
```

The method **getAlloyRimDiameters** returns all available Rim diameter. The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

```
<ns1:getAlloyRimDiametersResponse>
  <ns1:alloyRimDiameter>15</ns1:alloyRimDiameter>
  <ns1:alloyRimDiameter>16</ns1:alloyRimDiameter>
  <ns1:alloyRimDiameter>17</ns1:alloyRimDiameter>
  <ns1:alloyRimDiameter>18</ns1:alloyRimDiameter>
  <ns1:alloyRimDiameter>19</ns1:alloyRimDiameter>
  <ns1:alloyRimDiameter>20</ns1:alloyRimDiameter>
  <ns1:alloyRimDiameter>21</ns1:alloyRimDiameter>
</ns1:getAlloyRimDiametersResponse>
```

getAlloyRimTypes

```
<ns:getAlloyRimTypes>
  <ns:token>xx</ns:token>
  <ns:minAvailability>4</ns:minAvailability>
  <ns:alloyRimManufacturer>ALUTEC</ns:alloyRimManufacturer>
  <ns:alloyRimBinding></ns:alloyRimBinding>
  <ns:alloyRimDiameter></ns:alloyRimDiameter>
  <ns:ownStock>xxx</ns:ownStock>
</ns:getAlloyRimTypes>
```

The method returns all available alloy wheels types.

The **alloyRimManufacturer** parameter specifies the desired manufacturer. The **minAvailability** parameter specifies the minimum amount of the rim.

The optional **ownStock** parameter can take the following values:

1 - products from the own portfolio
 0 - item from the inventory of tyre24
 not indicated flag - without restriction to own / tyre24 article

```
<ns1:getAlloyRimTypesResponse>
  <ns1:alloyRimType>GRIP | Polar-Silber Einteilig Wintertauglich</ns1:alloyRimType>
  <ns1:alloyRimType>GRIP | Graphit Einteilig Wintertauglich</ns1:alloyRimType>
  <ns1:alloyRimType>LEON | Silber Einteilig</ns1:alloyRimType>
  <ns1:alloyRimType>SHARK | Sterling-Silber Einteilig</ns1:alloyRimType>
  <ns1:alloyRimType>SPYKE | Polar-Silber Einteilig Wintertauglich</ns1:alloyRimType>
  <ns1:alloyRimType>W10 | Silber Einteilig Wintertauglich</ns1:alloyRimType>
</ns1:getAlloyRimTypesResponse>
```

getAlloyRimManufacturers

```
<ns:getAlloyRimManufacturers>
  <ns:token>xxx</ns:token>
  <ns:minAvailability>xxx</ns:minAvailability>
  <ns:alloyRimBinding></ns:alloyRimBinding>
  <ns:alloyRimDiameter></ns:alloyRimDiameter>
  <ns:ownStock>xxx</ns:ownStock>
</ns:getAlloyRimManufacturers>
```

Returns all available alloy wheels manufacturer

The **minAvailability** parameter specifies the minimum amount of the rim. The optional **ownStock** parameter can take the following values:

- 1 - products from the own portfolio
- 0 - item from the inventory of tyre24
- not indicated flag - without restriction to own / tyre24 article

```
<ns1:getAlloyRimManufacturersResponse>
  <ns1:alloyRimManufacturer>ALUTEC</ns1:alloyRimManufacturer>
  <ns1:alloyRimManufacturer>WHEELWORLD</ns1:alloyRimManufacturer>
</ns1:getAlloyRimManufacturersResponse>
```

Calculation

All prices submitted to you by the Web Service interface are purchase prices at Tyre24. Currency of these prices are always in Euro. Your personal calculation is not included in these prices. However, you may request your calculation and personally calculate before you show the prices in your front end. Thus you can have separate calculations for your Tyre Shopping PRO System and your own front end.

getCalculation

```
<ns1:getCalculation>
  <ns1:token>xxx</ns1:token>
</ns1:getCalculation>
```

To request your calculation, all you have to do is submit your security token. With this we can then identify your Tyre Shopping PRO shop and submit your calculation to you as follows:

```
<ns1:getCalculationResponse>
  <ns1:endConsumer>
    <ns1:tyreMarkup>xxx</ns1:tyreMarkup>
    <ns1:tyrePercentMarkup> xxx </ns1:tyrePercentMarkup>
    <ns1:steelRimMarkup> xxx </ns1:steelRimMarkup>
    <ns1:steelRimPercentMarkup> xxx ns1:steelRimPercentMarkup>
    <ns1:aluRimMarkup> xxx </ns1:aluRimMarkup>
    <ns1:aluRimPercentMarkup> xxx </ns1:aluRimPercentMarkup>
    <ns1:tax> xxx </ns1:tax>
    <ns1:rounding> xxx </ns1:rounding>
  </ns1:endConsumer>
  <ns1:priceList1>
    <ns1:tyreMarkup> xxx </ns1:tyreMarkup>
    <ns1:tyrePercentMarkup> xxx </ns1:tyrePercentMarkup>
    <ns1:steelRimMarkup> xxx </ns1:steelRimMarkup>
    <ns1:steelRimPercentMarkup> xxx </ns1:steelRimPercentMarkup>
    <ns1:aluRimMarkup> xxx </ns1:aluRimMarkup>
    <ns1:aluRimPercentMarkup> xxx </ns1:aluRimPercentMarkup>
  </ns1:priceList1>
  <ns1:priceList2>
    <ns1:tyreMarkup> xxx </ns1:tyreMarkup>
    <ns1:tyrePercentMarkup>10 xxx ns1:tyrePercentMarkup>
    <ns1:steelRimMarkup> xxx </ns1:steelRimMarkup>
    <ns1:steelRimPercentMarkup> xxx </ns1:steelRimPercentMarkup>
    <ns1:aluRimMarkup> xxx </ns1:aluRimMarkup>
    <ns1:aluRimPercentMarkup> xxx </ns1:aluRimPercentMarkup>
  </ns1:priceList2>
  <ns1:priceList3>
    <ns1:tyreMarkup> xxx </ns1:tyreMarkup>
    ...
  </ns1:priceList3>
  <ns1:priceList4>
    ...
  </ns1:priceList4>
  <ns1:priceList5>
    ...
  </ns1:priceList5>
  <ns1:priceList6>
    ...
```

```
</ns1:priceList6>
</ns1:getCalculationResponse>
```

As you can see, you automatically receive your end user calculation along with the different price lists of specialised retailers. If you have activated the "Reifen-vor-Ort Kalkulationsübernahme" under Settings, these will appear in the endConsumer. Each sub element's fields are identical, which is why they will only be explained once in the following section:

tyreMarkup	surcharge in Euro on the tyre price
tyrePercentMarkup	surcharge in percent on the tyre price
steelRimMarkup	surcharge in Euro on the steel wheel price
steelRimPercentMarkup	surcharge in percent on the steel wheel price
aluRimMarkup	surcharge in Euro on the alloy wheel price
aluRimPercentMarkup	surcharge in percent on the alloy wheel price

The sub element for the end user calculation forms an exception. It additionally includes the following parameters:

tax	VAT
rounding	preferred rounding

getBulkDiscount

```
<ns1:getBulkDiscount>
  <ns1:token>xxx</ns1:token>
</ns1:getBulkDiscount>
```

Of course you can also request your settings for quantity discounts. To do so, use the function **getBulkDiscount**. This will submit your quantity discount settings:

```
<ns1:getBulkDiscountResponse>
  <ns1:stockNeededForPriceList1>xx</ns1:stockNeededForPriceList1>
  <ns1:stockNeededForPriceList2>xx</ns1:stockNeededForPriceList2>
  <ns1:stockNeededForPriceList3>xx</ns1:stockNeededForPriceList3>
  <ns1:stockNeededForPriceList4>xx</ns1:stockNeededForPriceList4>
  <ns1:stockNeededForPriceList5>xx</ns1:stockNeededForPriceList5>
  <ns1:stockNeededForPriceList6>xx</ns1:stockNeededForPriceList6>
  <ns1:stockNeededForPriceList7>xx</ns1:stockNeededForPriceList7>
  <ns1:stockNeededForPriceList8>xx</ns1:stockNeededForPriceList8>
  <ns1:stockNeededForPriceList9>xx</ns1:stockNeededForPriceList9>
  <ns1:stockNeededForPriceList10>xx</ns1:stockNeededForPriceList10>
</ns1:getBulkDiscountResponse>
```

The respective value indicates the number of items which have to be ordered to be upgraded into the desired price list. If the value is **0**, this means that no quantity discount is available

for this price list.

Specialised retailers

From now on, the Web Service interface will offer you complete specialised retailer functionality. This ranges from the log in of specialised retailers and requesting their data to the shopping basket function.

authenticateDealer

```
<ns1:authenticateDealer>
  <ns1:token>xxx</ns1:token>
  <ns1:dealerId>xxx</ns1:dealerId>
  <ns1:dealerPassword>xxx</ns1:dealerPassword>
</ns1:authenticateDealer>
```

For specialised retailers we use a similar authentication system to your regular access data. You authenticate the specialized retailer once and in response receive a security token which must be used for further requests.

```
<ns1:securityToken>
  <ns1:token>xxx</ns1:token>
  <ns1:expires />
</ns1:securityToken>
```

getDealerDetails

```
<ns1:getDealerDetails>
  <ns1:token>xxx</ns1:token>
  <ns1:dealerToken>xxx</ns1:dealerToken>
</ns1:getDealerDetails>
```

Via the function **getDealerDetails** you can request a specialised retailer's data. Please keep in mind that you have to submit both your security token in the parameter **token** and the specialised retailer security token in the parameter **dealerToken** once.

The following response will submit the specialised retailer's data to you:

```
<ns1:getDealerDetailsResponse>
  <ns1:title />
  <ns1:name>xx</ns1:name>
  <ns1:additive />
  <ns1:address>xx</ns1:address>
  <ns1:post_code>xx</ns1:post_code>
  <ns1:city>xx</ns1:city>
  <ns1:country>xxx</ns1:country>
  <ns1:tel />
  <ns1:fax />
  <ns1:email>xxx</ns1:email>
  <ns1:status>xxx</ns1:status>
  <ns1:pricelist>xxx</ns1:pricelist>
</ns1:getDealerDetailsResponse>
```

title	title
name	specialised retailer's name
additive	name addition of specialised retailer
address	street and number
post_code	postcode
City	city / village
country	country
tel	telephone number
fax	fax number
email	E-mail address
status	ok - if the specialised retailer is active no - if the specialised retailer is inactive
pricelist	price list of specialised retailer