

Velleman ServicePortal

Technical Guide

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Introduction

This document is a technical guide that describes the various webservices offered by the Velleman ServicePortal. It is recommended that you have a basic understanding of webservices and SOAP.

Programming examples given in this document are written in PHP 5, using the SOAP extension. Of course, other programming languages can also be used to consume our webservices (.NET, ..). For information on how to consume webservices in .NET, refer to the MSDN library for examples.

These services are only available to our customers. All webservices require authentication, the username and password is the same as used on one of the velleman websites (distributor area).

WSDL File

If you are a developer wishing to consume our webservices, you will need our WSDL file to get you started.

<https://portal.velleman.eu/ServicePortal/WebServices/ProductServices.asmx?WSDL>

Authentication

All of our webservices require authentication. This is achieved by sending an authentication header along with each SOAP request. This header should contain the username and password you currently use to access one of our websites.

The following snippet is an example of what a SOAP request with authentication header should look like:

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header>
    <AuthenticationHeader xmlns="https://portal.velleman.eu/">
      <Username>Company001</Username>
      <Password>AdgbY5</Password>
    </AuthenticationHeader>
  </soap:Header>
  <soap:Body>
    ...
  </soap:Body>
</soap:Envelope>
```

This header will be used to authenticate you as a customer. How to add this header to your request varies between programming languages. View the Consuming webservices in PHP 5 chapter for an example of how to do this in PHP 5.

Below is a list of possible exceptions that can occur during the authentication process.

Error: Authorization failed

The webservice failed to authenticate you using the credentials supplied. Verify that the username and password fields are correct.

Required authentication headers are missing from the SOAP request

The webservice failed to find the AuthenticationHeader in the soap:Header. This header is required to be able to authenticate you, since the webservices are only available to customers.

Webservices

GetProductInfo

This webservice retrieves product details in a specified language. The information returned is similar to what you can find on our website, structured in XML format.

Parameters

productName	string	Name of the product	K8000, VM110, ...
isoLang	string	Language code (ISO 639)	be, nl, fr, es, de

XML

ParentName	Parent category name
Name	Unique product code
Description	Product description
TechnicalDescription	Extended product description
Obsolete	Product is sold while stock lasts (true/false)
Deleted	Removed from our product range (true/false)
InnerCarton	Inner carton
OuterCarton	Outer carton
Package	Package type description
Barcode	EAN-13 barcode number
Weight	Weight in unit unit: Weight unit
EndUserPrice	End user price
MOQ	Multitude of quantity (can only order in multiples of)
ComingSoon	Product not available yet, but will be soon (true/false)
NewProduct	Recently released product (true/false)
Equivalent	Equivalent product
ReplacedBy	Product that replaces this product in case it is obsolete
Price	Price

min-qty: Minimum order qty required to benefit from this price

valid-until: Price is valid until this date

currency: Currency (EUR, ...)

Feature

Product feature

depth: Level of indendation

Specification

Product specification

depth: Level of indentation

Image

Relative path to a product image

File

(Represents a downloadable item)

type: File type (.pdf, .zip, ...)

Title: Display name of the file

Description: File description

FileName: Relative path to a downloadable file for this product

Icon

(Icons that indicate product features)

FileName: Relative path to the icon file

Description: Icon description

GetProductCategories

This webservice retrieves the entire product category tree of all our products. You can use this information to populate your menu structure or use this list to selectively retrieve product lists using the GetProductsByCategory webservice.

Parameters

isoLang	string	Language code (ISO 639)	be, nl, fr, es, de
---------	---------------	-------------------------	--------------------

XML

Category Category description
id: Unique category id
parent: Parent category id

GetProductsByCategory

This webservice retrieves a list of products contained in a specified category and all of its subcategories.

Parameters

categoryId	string	Category id	
------------	---------------	-------------	--

Result (XML)

Product Unique product code
parent: Parent category id

GetProducts

This webservice retrieves a list of all products with their location in the product hierarchy.

Result (XML)

Product Unique product code
parent: Parent category id

GetProductsByDivision

This webservice retrieves a list of products for a specific division (Perel, Velbus, ..).

Parameters

divisionId	string	Id of the division for which you want all products <u>Possible values:</u> VC Velleman VI Velleman Instruments VK Velleman Kits VS Sound & Light PRL Perel VBUS Velbus	
------------	---------------	---	--

XML

Product

Unique product code

parent: Parent category id

GetProductStock

This webservice retrieves available stock for the specified product.

Parameters

productName	string	Category id	
requiredQty	integer	Required quantity	

XML

StockInfo

last-update: Last stock update time

limited: Whether the stock number has been limited

confirmed: Stock number has been confirmed

next-delivery: Next delivery date in case of insufficient stock

GetProductPrices

This webservice retrieves a pricing information for a specific product. This pricing information also contains promotional prices or prices from quotations.

Parameters

productName	string	Unique product code	
-------------	---------------	---------------------	--

XML

Price Price
min-qty: Minimum order qty required to benefit from this price
valid-until: Price is valid until this date
currency: Currency (EUR, ...)

GetPromotions

This webservice retrieves a list of all promotions available to you. This webservice should be used as a means to retrieve a more specific product list. It does not contain any prices!

XML

Promotion Name of the promo
id: Unique id

GetProductsByPromo

This webservice retrieves a list of all products contained in a specified promotion. A list of available promotions can be retrieved using the GetPromotions webservice.

Parameters

promotionId	string	Id of the promotion for which to retrieve a product list	
-------------	---------------	--	--

XML

Product Unique product code
parent: Parent category of the product

GetNewProducts

Get a list of all new products over the last numDays days.

Parameters

numDays	integer	Number of days to look back	
---------	----------------	-----------------------------	--

XML

Product

Unique product code

parent: Parent category of the product

GetComingSoonProducts

Get a list of all coming soon products over the last numDays days.

Parameters

numDays	integer	Number of days to look back	
---------	----------------	-----------------------------	--

XML

Product

Unique product code

parent: Parent category of the product

GetObsoleteProducts

Get a list of all obsolete products over the last numDays days.

Parameters

numDays	integer	Number of days to look back	
---------	----------------	-----------------------------	--

XML

Product

Unique product code

parent: Parent category of the product

GetPopularProducts

Get a list of all popular products.

Parameters

numDays	integer	Number of days to look back	
---------	----------------	-----------------------------	--

XML

Product

Unique product code

parent: Parent category of the product

CartGetContents

Get the contents of the shopping cart.

XML

OrderLine

Item in cart

Id: Order line id

Name: Unique product code

Quantity: Order quantity

Remark: Customer remark

Reference: Customer product reference

CartAddItem

Add an item to the shopping cart.

Parameters

productName	String	Unique product code	
quantity	integer	Order quantity	
reference	string	Customer product reference	
remark	string	Customer remark	

Returns a number ≥ 0 when successful.

CartCheckout

Get the contents of the shopping cart.

reference	string	Customer order reference	
remark	string	Customer remark	

Returns a number ≥ 0 when successful.

CartRemoveItem

Add an item to the shopping cart.

Parameters

itemId	integer	Order line id	
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Returns a number ≥ 0 when successful.

Testing with soapUI 2.5

The open source application soapUI is free of charge and is a very good tool if you want to test the webservices without writing your own software. You can download it from

<http://www.soapui.org/>.

Once the application is installed, create a new project (File > New soapUI Project) and provide the url to our WSDL file:

<https://portal.velleman.eu/ServicePortal/WebServices/ProductServices.asmx?WSDL>

After pressing OK, soapUI will search for all available webservices and display then in its project navigator.

For more information on how to use soapUI, refer to its user guide. It's a great tool.

Consuming webservicess in PHP 5

Basic example

The following example attempts to call the GetProductStock webservice to retrieve stock information for the K8000 PC Interface Board. The result is echo'ed to standard ouput.

```
<?php

define('VELLEMAN_WSDL_URI',
    'https://portal.velleman.eu/ServicePortal/WebServices/ProductServices.asmx?WSDL');

$client = new SoapClient(VELLEMAN_WSDL_URI, array('encoding'=>'UTF-8'));

$auth["Username"] = 'xxxx'; // Enter your own login

$auth["Password"] = 'yyyy'; // information here..

$header = new SoapHeader('https://portal.velleman.eu/', 'AuthenticationHeader', $auth);

$response = $client->__soapCall('GetProductInfo',

    array(

        // Parameters as associative array

        array(

            'productName' => 'K8000',

            'isoLang' => 50

        )

    ),

    null,

    $header

);

// Display the rounded result

print_r($response->GetProductInfoResult->any);

?>
```

This example requires that PHP was configured with `--enable-soap`. For more information visit PHP's official website on the subject <http://php.net/manual/en/book.soap.php>. Be sure to change the login information to reflect your own credentials.