

Calculating private customer prices

Interface documentation (REST / JSON API)

1. Introduction

VSC provides a REST API to fetch data. The service is used by a mobile client. It consumes and produces JSON data to keep the payload small.

1.1 Scope

The scope of this document is limited to the VSC REST API. VSC and the VSCmobile application are out of the scope of this document.

2. Glossary, Definitions, Acronyms and Abbreviations

2.1 Acronims

The following table contains common use terms that may not be clear to the whole document audience

Term	Meaning
VSC	Versandkalkulator
WS	Webservice
VSCmobile	mobile version of the Versandkalkulator
JSON	JavaScript Object Notation, a text-based open standard designed for human-readable data interchange.
REST	A web-service design model.

3. Host and WADL-File

The VSC REST-Service is hosted under the following URL:

<http://www.post.ch/vsc/webservice/>

The WADL file is located here :

http://www.post.ch/vsc/webservice/mobile-service?_wadl



4. URL

The VSC REST API provides the following URLs for retrieving data.

HTTP Method	Endpoint	Description
GET	/webservice/mobile-service/countries	returns all the available countries in all four languages
GET	/webservice/mobile-service/countries/{country ISO Code}/details	Returns the details for one specific country
GET	/webservice/mobile-service/weights/{format}/national	returns the available weights for the specified format for a shipment within Switzerland
GET	/webservice/mobile-service/weights/{format}/foreign	returns the available weights for the specified format for a shipment to a foreign country
GET	/webservice/mobile-service/products?countryIsoCode=CH&format=...	returns the products for the specified parameters
GET	/webservice/mobile-service/exclusive-options	returns the product identifiers of the exclusive options
GET	/webservice/mobile-service/waybill-button	returns the product identifiers for the waybill products

5. REST Specification

OPT = Optional

MAND = Mandatory

Fetching the countries

URL /webservice/mobile-service/countries?fetchFlag=true

Method GET

Querystring fetchFlag If set to true, the flag for every country is added to the response. Defaults to false. OPT

Returns 200 OK & JSON

Example Response GET http://host/vsc/webservice/mobile-service/countries

```
{
  "GetCountriesResponse": {
    "Countries": [{
      "IsoCode": "CH",
      "nameDe": "Schweiz",
      "nameFr": "Suisse",
      "nameIt": "Svizzera",
      "nameEn": "Switzerland",
      "flag": null}]
  }
}
```

SWISS POST 

Fetching one specific country

URL	/webservice/mobile-service/countries/{country ISO Code}/details?fetchFlag=true		
Method	GET		
Querystring	fetchFlag	If set to true, the flag for every country is added to the response. Defaults to false.	OPT
Querystring	language	Used to translate the detail texts of a country. DE, FR, IT, EN	MAND
Returns	200 OK & JSON		
Returns	404 NOT_FOUND	If a country with the specified ISO Code could not be found	
Example Response	<pre>GET http://host/vsc/webservice/mobile-service/countries/DE/details?language=FR { "GetCountryDetailsResponse": { "CountryDetails": { "Country": { "IsoCode": "DE", "nameDe": "Deutschland", "nameFr": "Allemagne", "nameIt": "Germania", "nameEn": "Germany", "flag": null }, "DimensionWeightRegulations": "PostPac International Priority...", "GeneralRegulations": "Hinweis Die hier enthaltenen...", "CountrySpecificRegulations": "Seit 01.07.2004 ist...", "SpecialRegulations": "Brief: Beachten Sie die...", "ShipmentTracking": "Folgende Produkte sind über---", "PoBoxes": "Für folgende Produkte ist ...", "Gefahrgut": "Hier finden Sie die Auflistung..." } } }</pre>		

SWISS POST 

Fetching the weights for national shipments

URL /webservice/mobile-service/weights/{format}/national

Method GET

Querystring format The format for which the weights should be returned. MAND

B4

B5

MB - MiniPac

PK - Parcel

SP - Sperrgut

RL - Rolle

FF - Free format

Returns 200 OK & JSON

404 NOT_FOUND If no weights were found for the specified format.

Example response

```
GET http://host/vsc/webservice/mobile-service/weights/B4/national
{
  "GetWeightsResponse": {
    "Weights": [500,
      1000,
      2000,
      5000,
      10000,
      2000,
      3000]
  }
}
```

SWISS POST 

Fetching the weights for foreign shipments

URL /webservice/mobile-service/weights/{format}/foreign

Method GET

Querystring format The format for which the weights should be returned. MAND

B4

B5

MB - MiniPac

PK - Parcel

SP - Sperrgut

RL - Rolle

FF - Free format

Returns 200 OK & JSON

404 NOT_FOUND If no weights were found for the specified format.

Example response

```
GET http://host/vsc/webservice/mobile-service/weights/B4/foreign
{
  "GetWeightsResponse": {
    "Weights": [100,
               1000,
               2000]
  }
}
```

SWISS POST 

Calculate the available products

URL /webservice/mobile-service/products?countryIsoCode=CH&format=...

Method GET

Querystring	language	The language into which the different texts (info texts, running times...) should be translated. DE, FR, IT, EN	MAND
	countryIsoCode	The country for which to calculate the products.	MAND
	format	A comma separated list of all the formats (min one, max two) for which the products should be calculated. Formats which require additional values like length cannot be used together with other formats.	MAND
	length	The length for manual format in mm.	MAND*
	width	The width for manual format in mm.	MAND*
	depth	The depth for manual format in mm.	MAND*
	diameter	The diameter for manual format in mm.	MAND*
	weight	The weight for which the products should be calculated in grams.	MAND

* For manual format, length, width and depth are mandatory, for Rolle format, length and diameter are mandatory.

Returns 200 OK & JSON

400 BAD_REQUEST If parameters are missing or invalid.

Example response

```
GET http://host/vsc/webservice/mobile-service/products?language=DE&countryIsoCode=CH&format=B4&weight=500
{
  "GetProductsResponse": {
    "Products": [ {
      "ProductIdentifier": {
        "TypeNumber": 6023,
        "Taxgroup": 10010
      },
      "TypeDescription": "A-Post Grossbrief",
      "Children": [ {
        "ProductIdentifier": {
          "TypeNumber": 6115,
          "Taxgroup": 23010
        },
        "TypeDescription": "Aufpreis Einschreiben",
        "Children": [ {
          "ProductIdentifier": {
            "TypeNumber": 6062,
            "Taxgroup": 23010
          }
        ]
      }
    ]
  }
}
```

SWISS POST 

Calculate the available products

```
        "TypeDescription": "Eigenhändig",
        "Price": 500,
        "SendLimitText": "",
        "InfoText": "Wenn Ihre Sendung...",
        "Mandatory": false,
        "PriceIncludedInMainProduct": false
    },
    {
        "ProductIdentifier": {
            "TypeNumber": 6063,
            "Taxgroup": 23010
        },
        "TypeDescription": "Rückschein",
        "Price": 500,
        "SendLimitText": "",
        "InfoText": "Mit dem Rückschein...",
        "Mandatory": false,
        "PriceIncludedInMainProduct": false
    },
    {
        "ProductIdentifier": {
            "TypeNumber": 6060,
            "Taxgroup": 23010
        },
        "TypeDescription": "Nachnahme",
        "Price": 2500,
        "SendLimitText": "",
        "InfoText": "Einfach und sicher...",
        "Mandatory": false,
        "PriceIncludedInMainProduct": false
    }
}],
"Price": 500,
"SendLimitText": "",
"InfoText": "Einschreiben zu A-Pos...",
"Mandatory": false,
"PriceIncludedInMainProduct": false
},
{
    "ProductIdentifier": {
        "TypeNumber": 6116,
        "Taxgroup": 23010
    },
    "TypeDescription": "A-Post Plus",
    "Price": 350,
    "SendLimitText": "",
    "InfoText": "Mit Eingabe der...",
    "Mandatory": false,
    "PriceIncludedInMainProduct": false
}],
"RunningTimeText": "1 Werktag",
"MinRunningTime": 1,
"MaxRunningTime": 1,
"Price": 200,
"SendLimitText": "Aufgabe bis 18.30 Uhr...",
"InfoText": "Zustellung A - Post...",
"Mandatory": false,
"PriceIncludedInMainProduct": false, "WaybillButton": false
}
]
```

SWISS POST 

Calculate the available products

```
}}
```

Fetch the combinations of product identifiers which are exclusive

URL /webservice/mobile-service/exclusive-options

Method GET

QueryString --- --- ---

Returns 200 OK & JSON

404 NOT_FOUND If no exclusive options were found

Example response

```
GET http://host/vsc/webservice/mobile-service/exclusive-options
{
  "GetExclusiveOptionsResponse": {
    "IdentifierPair": [
      { "ProductIdentifier1": { "TypeNumber": 7071, "Taxgroup": 10010 },
        "ProductIdentifier2": { "TypeNumber": 5054 } },
      { "ProductIdentifier1": { "TypeNumber": 7073 },
        "ProductIdentifier2": { "TypeNumber": 7079 } }
    ]
  }
}
```

Fetch the configuration of product identifiers which have the waybill button shown

URL /webservice/mobile-service/waybill-button

Method GET

QueryString --- --- ---

Returns 200 OK & JSON

404 NOT_FOUND If no configuration were found

SWISS POST 

Fetch the configuration of product identifiers which have the waybill button shown

Example GET <http://host/vsc/webservice/mobile-service/waybill-button>
response

```
{"GetWaybillButtonResponse": {"ProductIdentifiers": [  
  {  
    "TypeNumber": 7051,  
    "Taxgroup": -1  
  },  
  {  
    "TypeNumber": 7052,  
    "Taxgroup": -1  
  },  
  {  
    "TypeNumber": 7072,  
    "Taxgroup": -1  
  },  
  {  
    "TypeNumber": 7071,  
    "Taxgroup": -1  
  }  
]}}
```

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