WEBSERVICE
DISTRIBUTION E-COMMERCE
API REFERENCE

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SWISS POST

Contents

1 Swiss Post e-commerce API reference

The Swiss Post **e-commerce API** is a **REST** API which provides predictable and resource-oriented URLs and uses HTTP response codes to indicate API errors. It uses built-in HTTP features to receive commands and return responses. This makes it easy to communicate with from a wide variety of environments, from command-line utilities, server-side or client-side web applications and mobile devices. It supports the **JSON** format in requests and it returns JSON content in all of its responses, including errors. It supports cross-origin resource sharing to allow you to interact securely with our API from a client-side web application.

The access to the Swiss Post e-commerce API is controlled by the **OAuth** authorization protocol. An **access token** is required to consume the **endpoints** exposed by the API. This is obtained after a sucessful authentication.

We have marked all sections with changes to content with a line at the margin.

2 Overview
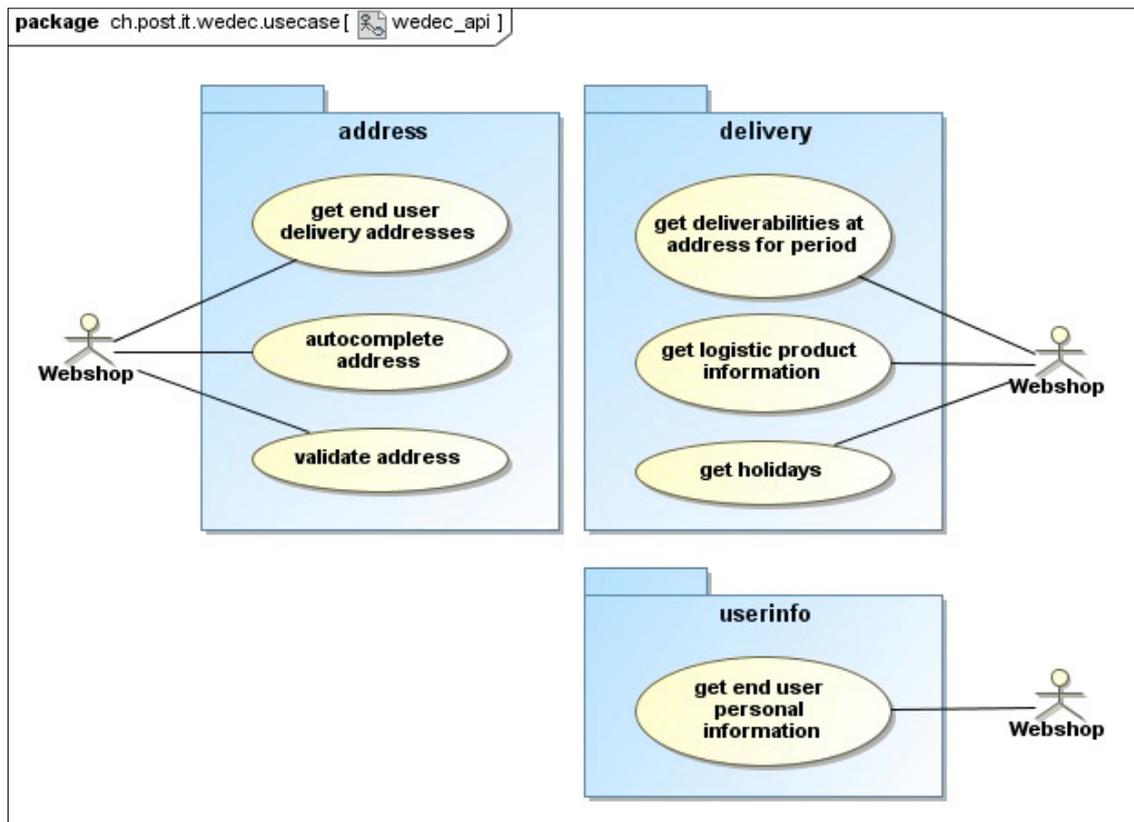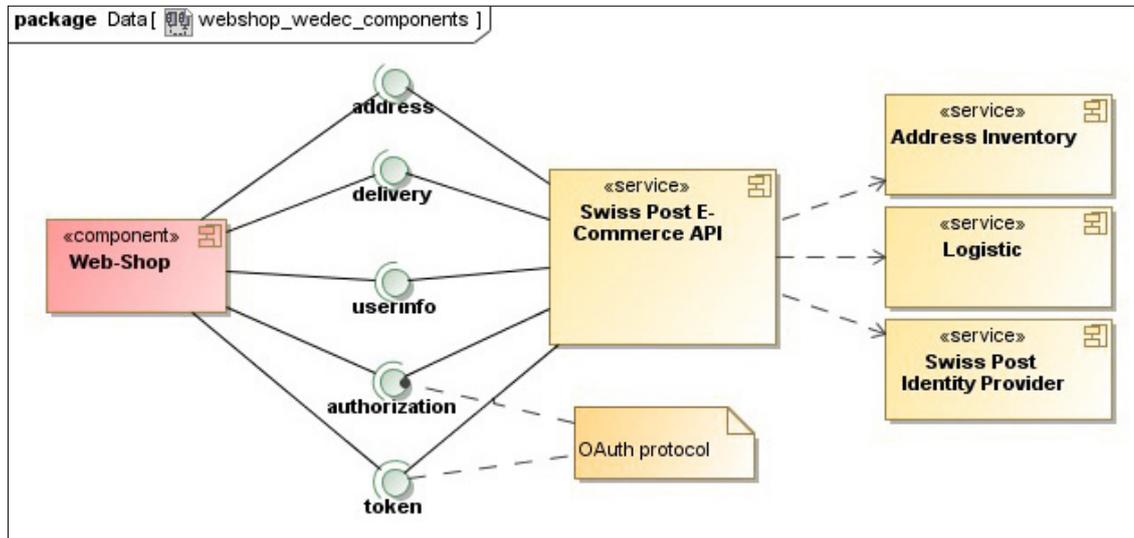
2.1 API endpoints

Endpoint	URL	Aim
address	**Integration** https://wedecint.post.ch/api/address/v1 **Production** https://wedec.post.ch/api/address/v1	Provides the access to the personal addresses of Swiss Post registered users, it refers to the list of their delivery addresses. Moreover this API provides the access to unpersonal business data and exposes address validation service and an auto-completion service for zip codes, street names and house numbers.
delivery	**Integration** https://wedecint.post.ch/api/delivery/v1 **Production** https://wedec.post.ch/api/delivery/v1	Provides the access to unpersonal data delivered by the logistic services of Swiss Post, it refers to the list of the deliverabilities, when and how a given valid address can be delivered.
userinfo	**Integration** https://wedecint.post.ch/userinfo **Production** https://wedec.post.ch/api/userinfo	Provides the access to personal data of Swiss Post registered users, it refers to the attributes of their Swiss Post profile. http://openid.net/specs/openid-connect-core-1_0.html#UserInfo http://openid.net/specs/openid-connect-core-1_0.html#IDToken
authorization	**Integration** https://wedecint.post.ch/WEDECOAuth/authorization	OAuth Endpoint for querying an authorization code, usually obtained with the consent of an authenticated end user, given a set of scopes and credentials. http://openid.net/specs/openid-connect-core-1_0.html#AuthRequest
token	**Integration** https://wedecint.post.ch/WEDECOAuth/token	OAuth Endpoint for exchanging an authorization code against an access token. http://openid.net/specs/openid-connect-core-1_0.html#TokenRequest

3 Authentication

The access to the Swiss Post connector and the e-commerce API is controlled by both **OpenID-Connect** protocol **version 1.0** and **OAuth** authorization protocol **version 2.0.**

Only Swiss Post registered clients can be authorized to consume the Swiss Post connector and the e-commerce API. The OpenID endpoint and some endpoints of the e-commerce API require the **authorization** of the end users when personal data is queried.

OAuth is an authorization protocol and not an authentication protocol. The client and the end user have to be authenticated; consequently the authentication is an implicit part of the protocol.

For more information see http://tools.ietf.org/html/rfc6749

3.1 OAuth

A client of the Swiss Post e-commerce API must first obtain an OAuth **access token** in order to consume the endpoints of the API.
– The client is authenticated by the OAuth credentials received after a successful registration: **client-id, client-secret.**
– A set of **scopes** need to be mentioned when ordering the access token, a scope corresponds to a use case applied on one or more endpoints of the API.
– These scopes must be a subset of the ones configured during the **registration** process.
– Moreover the end user may have to be **authenticated** and have to **authorize** the client for the set of ordered scopes.
– Finally an **access token** is returned to the client through a **redirection URL** configured during the registration. The returned access token is a **bearer token.**
– Depending on the implemented OAuth **flow** for the query of the access token, a **refresh token** is returned. This is used for access token renewal without user consent.

The OAuth authorization protocol defines a set of standard flows for querying an access token. A client of the Swiss Post e-commerce API is responsible for the integration of the desired flows in his use cases.

For more information see http://tools.ietf.org/html/rfc6749

3.2 OpenID-Connect

The access to personal data by a registered client through the Swiss Post connector is controlled by the OpenID-Connect protocol. This is based on the OAuth standard authorization protocol. The OpenID-Connect flow is based on the OAuth authorization code grant flow or the OAuth implicit code grant flow. It finally returns an ID-Token and an access token to the client.
– The returned ID-Token contains the personal data out of the identity of the end user mapped to each ordered OpenID scope.
– The returned access token can be used for consuming the standard Userinfo endpoint or the endpoints of the Swiss Post e-commerce API when eventually covered by the other ordered non-OpenID scopes.
– Both the returned ID-Token and access token are bearer tokens.
– With the ID-Token the client maybe already receives the full desired data at the end of the flow and is not forced to implement a subsequent call to consume the standard Userinfo endpoint.

A client of the Swiss Post Connector is responsible for the integration of the desired flows in his use cases.

For more information see http://openid.net/specs/openid-connect-core-1_0.html#Introduction

3.3 Authorization code grant flow

See http://openid.net/specs/openid-connect-core-1_0.html#CodeFlowAuth

Some scopes giving access to non-personal data can be ordered besides the other scopes. They do not require any consent by the end user and are not displayed inside the consent screen.

3.3.1 Authentication request

GET request

```
https://wedec.post.ch/WEDECOAuth/authorization?
client_id=wedec-fake-shop&
scope=WEDEC_READ_ADDRESS+openid+profile+email+address&
response_type=code&
redirect_uri=http%3A%2F%2Flocalhost%3A8080%2Ffake-shop%2F&
nonce=f5bb9f70-2&
state=bbe6606b-b
```

For more information see http://openid.net/specs/openid-connect-core-1_0.html#AuthRequest

3.3.2 Authentication response

Response

```
HTTP/1.1 302 Found
Location: http://localhost:8080/fake-shop/?state=056be689-d&code=iUkxvid_e4k813KgLWcNvY-
j2KAqK60r0ixe8W4kiMPY
```

For more information see http://openid.net/specs/openid-connect-core-1_0.html#AuthResponse

3.3.3 Authentication response validation

We recommend that the client validates the authentication response, see http://openid.net/specs/openid-connect-core-1_0.html#AuthResponseValidation

3.3.4 Token request

POST request

```
https://wedec.post.ch/WEDECOAuth/token?
grant_type=authorization_code&
client_id=wedec-fake-shop&
client_secret=wedec-fake-shop-secret&
redirect_uri=http%3A%2F%2Flocalhost%3A8080%2Ffake-shop%2F&
code=iUkxvid_e4k813KgLWcNvYj2KAqK60r0ixe8W4kiMPY
```

For more information see http://openid.net/specs/openid-connect-core-1_0.html#TokenRequest

3.3.5 Token response

Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
"expires_in":300,
"token_type":"Bearer",
"id_token":
"eyJhbGciOiJSUzI1NiJ9.eyJleHAiOjE0MTEwNTE5MTQsInN1Yil6IjEwMDQ5MjIiLCJub25jZSI6IjczZDc3N2U0LT-
ciLCJhdWQiOlsid2Vk

ZWMtZmFrZS1zaG9wll0slmlzcyI6Imh0dHBzOlwvXC9hcGlkZXYucG5ldC5jaCIslmlhdCI6MTQxMTA1MT-
MxNH0.SBYodQCRmsbZvSHnBenLqPGS-U9Q_Z
    S8wTM7TvvyiDxiF27pKvjwsF6vYzJsucpluz750bH-OVtL-Esh72M-Ki8L_3hGlmgpZ-K7KaRRM9BG3UA-
5M8ZZloVTpz6W47H_xi-Q_NwCqApgawdEP8rI
    ECKtSdk3En8A3rDSrCLNhF2LO-56rsC2rwcdBqrpth_89Iq00O1kMPNZ2H_HJpQzBIku04WGOwbx-
2K3f5b_BV-VKVjqkqEMoacJcP_c9pQY2YxpIGAfOnS
    ROMYCJfM5M-QmsgDCn9B9Z0yicbPwDexS4y1FqOMFXVIJYt94qek8n8CVqp9KQBl2ptEuAbD6HIA",
"access_token":"eyJhbGciOiJSU0ExXzUiLCJlbmMiOiJBMjU2R0NNIn0.XpENWZLOwkvlwiY0TWCUZ2LTAbd-
P895E1BlAClqmB3oHTehtMGkXCNudURQtwc

CVR23dYalRYLDP_huIHqwNjHoAYip2CsyiTrYQySp4wZzRb5Cm1QKvTq2yGfFUcK2qlqr7nFD_CEei8_EpVHa-
nYSE3srnWZkVEl8btQOg32bKOaidwLBaP

LgFHfgom6l7n6ewh7UFv1WcRjk9Ug48oHUrpVQEBnu1pXr8gFEtEpmTZhT1TUCwUsyxzH36dkgzSZ4DH-
CvuIPDOtWpurQZQiu0OQVWd3ih2z7jSECXzUD7

9olxqzN_pWNVeb4jGvVhTYktBmsCYxJZCslm_NtuMJg.V4qpGmkldszeRMk.KI_swCCP6rvvkiGOkNWLghqK-
0BXrsz5qdimYNxkGNkbE2NQeJKfaGPtLKb

1d59Ylwe_Ng_kqpBg05_39OOLgC4tA5JsEipOPm951fDlclmx0ybKwPqtNCjigGP_yxrwcbHwPSEofnNMakt-
GnVpCadUMjeNUb6QRzybylS3CxeWsv19md
    U48xTiHGNqzgB2iWT9DkzfCcP0o3bTqTNcdD4uLdE1oA-hev5bT3XDV56XlH1SprSva2sQ86k6mFgHTcqT-
p8MnFzEXSjBe_QkiJJgfx53c8pzVruby2kiW

xdYm91ILStVUCQZ26EPGFhTN03TZTZ0BeM6cHvapvOO_JWwWdbsc_dx4YLpCIdF9FjlJruLHFx-
29ZAweSuXdSmM4v7X9jCh3_5iNWeniYjwmzYb9vMbOd2

UrlGoGxnUdJ_BTOjB8LXHQ7mO35ycl4L0o7j8pF6qDxJiQapPFl4jI77WksrvkVFNvyTUIL_JggQrPjO0cCuHlevli-
W0I50aS3Vj8oGLFcOM9QnBuL3tyk

1BvQdwtfXX6mmqvp1OfFWkfClytBcBcBWdLgzFKKpkXQ0Unaa_uQxtVLBfAuisF1w8idPia9hcP2jv_Eeyy0iq-
jnDtO.CKPdNsuq22qlhNRRQODqnw"
}
```

For more information see http://openid.net/specs/openid-connect-core-1_0.html#TokenResponse

3.3.6 Token response validation

We recommend that the client validates the token response, see http://openid.net/specs/openid-connect-core-1_0.html#TokenResponseValidation

3.4 Implicit code grant flow

See http://openid.net/specs/openid-connect-core-1_0.html#ImplicitFlowAuth

Some scopes giving access to non-personal data can be ordered besides the other scopes. They do not require any consent by the end user and are not displayed inside the consent screen.

3.4.1 Token request

```
$ curl https://wedec.post.ch/WEDECOAuth/authorization?
scope=WEDEC_READ_ADDRESS&
response_type=token&
redirect_uri=http%3A%2F%2Flocalhost%3A8080%2Ffake-shop%2F&
nonce=f5bb9f70-2&
state=ca48d322-7906-40e4-b8d5-09933cbcce45&
client_id=wedec-fake-shop
```

For more information see http://openid.net/specs/openid-connect-core-1_0.html#ImplicitAuthRequest

```
HTTP/1.1 302 Found
Location: http://localhost:8080/fake-shop/#
state=ca48d322-7906-40e4-b8d5-09933cbcce45&
token_type=Bearer&
expires_in=300&
access_token=eyJhbGciOiJSU0ExXzUiLCJlbmMiOiJBMjU2R0NNIn0.aBvqaCwZF7_44_wCSJ6jebzU00D-
FrqEikcsDuy_MNFzzUxkM7P7C9EQ2LqjZcqwlybO8hE2XdJKEHGD16SFTH-J4_el3x8tlJJyfTwvQCNfklYY4der-
6SCPXo8D6HfAK5Ehes1507sKBjQ7hW1zRLxww6l4o0sab23PWKx9fLZydTQamFhu
_EwBYvIA0ya8vpqalhYtmnQbt_9ylfVY2azM9UAm6TPwkD0HjGs1itz5_AmoR-AaKvZNhpDFL6gbdOs-
V2AVMfcpSaGDs7r-s4GIoOqjTSudMAc1S_g5DTlmmKg8mb2BhiNQj_rdS7kgS483GJSwl84r0MKllrmOlLDA.
jUKXofbp6lFXzokp.PRg7TmHoE9444SpPcsGu8hVdaNfovKZV7Grp1COqZ2Wf3OYHOsTaKLajbfoSvSEFS6t-
Dyw_FPkRssh58MtADjQJYwbf4qDuflHw7iYua-hQFNt4zUh6AJZCTbpz0YEqUbllE7r6dzg36VXlO9ueQi0DmH-
qH9P0zwTW4CKcli_Q.D-hUFgKsbQ2WrO2k9tjwDA
```

For more information see http://openid.net/specs/openid-connect-core-1_0.html#ImplicitAuthResponse

3.4.2 Token response validation

We recommend that the client validate the token response, see http://openid.net/specs/openid-connect-core-1_0.html#TokenResponseValidation

3.5 Client credential flow

This flow is suitable for the server-side access by a registered client to non-personal data. No consent by any end user is necessary for the ordered scopes, the client exchanges its OAuth credentials for an access token.

This flow is implemented on the server side.

3.5.1 Token request

```
$ curl -X POST https://wedec.post.ch/WEDECOAuth/token?grant_type=client_credentials&client_id=we-
dec-fake-shop&client_secret=wedec-fake-shop-secret&scope=WEDEC_DELIVERY
```

3.6 Use access token

3.6.1 Resource request

```
$ curl -H Authorization: Bearer
eyJhbGciOiJSU0ExXzUiLCJlbmMiOiJBMjU2R0NNIn0.XpENWZLOwkvlwiY0TWCUZ2LTAbdP895E1BlAClqm-
B3oHTehtMGkXCNudURQtwc
    CVR23dYalRYLDP_hulHqwNjHoAYip2CsyiTrYQySp4wZzRb5Cm1QKvTq2yGfFUcK2qlqr7nFD_CEei8_
EpVHanYSE3srnWZkVEl8btQOg32bKOaidwLBaP
    LgFHfgom6l7n6ewh7UFv1WcRjk9Ug48oHUrpVQEBnu1pXr8gFEtEpmTZhT1TUCwUsyxzH36dkgzSZ4DH-
CvulPDOtWpurQZQiu0OQVWd3ih2z7jSECXzUD7
    9olxqzN_pWNVeb4jGvVhTYktBmsCYxJZCslm_NtuMJg.V4qpGmkldszeRMk.KI_swCCP6rvvkiGOkNWLgh-
qK0BXrsz5qdimYNxkGNkbE2NQeJKfaGPtLKb
    1d59Ylwe_Ng_kqpBg05_39OOLgC4tA5JsEipOPm951fDlclmx0ybKwPqtNCjigGP_yxrwcbHwPSEofnN-
MaktGnVpCadUMjeNUb6QRzybylS3CxeWsv19md
    U48xTiHGNqzgB2iWT9DkzfCcP0o3bTqTNcdD4uLdE1oA-
hev5bT3XDV56XlH1SprSva2sQ86k6mFgHTcqTp8MnFzEXSjBe_QkiJJgfx53c8pzVruby2kiW
    xdYm91ILStVUCQZ26EPGFhTN03TZTZ0BeM6cHvapvOO_JWwWdbsc_dx4YLpCIdF9FjlJruLHFx-
29ZAweSuXdSmM4v7X9jCh3_5iNWeniYjwmzYb9vMbOd2
    UrlGoGxnUdJ_BTOjB8LXHQ7mO35ycl4L0o7j8pF6qDxJiQapPFl4jl77WksrvkVFNvyTUIL_JggQrPjO0cCu-
HlevliW0I50aS3Vj8oGLFcOM9QnBuL3tyk
    1BvQdwtfXX6mmqvp1OfFWkfClytBcBcBWdLgzFKKpkXQ0Unaa_uQxtVLBfAuisF1w8idPia9hcP2jv_Eeyy-
0iqjnDtO.CKPdNsuq22qlhNRRQODqnw
https://wedec.post.ch/api/userinfo
HTTP/1.1 200 OK Content-Type: application/json
{
"sub": "248289761001",
"name": "Lang Michael",
"given_name": "Michael",
"family_name": "Lang",
"preferred_username": "michael.lang",
"email": "michael.lang@gmail.com",
}
```

3.7 Use refresh token

Refresh tokens are issued when access tokens are issued during the authorization code grant flow and client credential grant flow. It can also depend on the configuration of the authroization server.
A refresh token has a higher TTL than the associated access token. This refresh token is used for access token renewal without user consent.

3.7.1 Access token renewal

```
$ curl -H Authorization: Basic czZCaGRSa3F0Mzpnp WDFmQmF0M2JW
https://wedec.post.ch/WEDECOAuth/token?
grant_type=refresh_token&
refresh_token=tGzv3JOkF0XG5Qx2TlKWIA
```

For more information see https://tools.ietf.org/html/rfc6749#page-47

3.8 End user's personal information query

3.8.1 Prerequisites

− OAuth access token for a set of OpenID scopes: openid, profile, email, address, phone. These scopes require the consent of the end user and can be obtained from an authorization code grant flow or an implicit grant flow.
− Each OpenID scope is associated with a set of OpenID claims, see http://openid.net/specs/openid-connect-core-1_0.html#ScopeClaims
− Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>

3.8.2 KLP mapping

The standard OpenID claims (see http://openid.net/specs/openid-connect-core-1_0.html#StandardClaims)
are mapped this way:

OpenID claims	Aggregation	Swiss Post profile attribute
sub		user profile id
name		firstName name
given_name		firstName
family_name		name
email		email
email_verified		TRUE or FALSE
gender		female or male
locale		language (rfc5646, without country code)
phone_number		mobilePhone or phone
phone_number_verified		TRUE or FALSE
address	formatted	name firstName addressLine1 addressLine2 addressLine3 addressLine4 zip city country
	street_address	addressLine2
	locality	city
	postal_code	zip
	country	country
updated_at		last user account change

3.8.3 The information out of the profile of the end user

GET request

https://wedec.post.ch/api/userinfo

Response

```
{
"sub": "248289761001",
"name": "Lang Michael",
"given_name": "Michael",
"family_name": "Lang",
"preferred_username": "michael.lang",
"email": "michael.lang@gmail.com",
}
```

3.8.4 Error codes

Code	Reason
200	OK
403	Not authorized
404	No results found
500	Internal server error

4 Alternative Delivery Addresses

4.1 End user's addresses query

4.1.1 Prerequisites

– OAuth access token for a set of scopes: WEDEC_READ_ADDRESS, WEDEC_READ_MAIN_ADDRESS.
  Both scopes require the consent of the end user and can be obtained from an authorization code grant
  flow or an implicit grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Address API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  address/v1/swagger.yaml

4.1.2 The personal addresses of the end user

GET request

```
https://wedec.post.ch/api/address/v1/users/current/addresses
```

Response

```
[
  {
    "type":"MAIN",
    "nickname":"KLP",
    "addressee":{"firstName":"Massimo","lastName":"Cotelli"},
    "geographicLocation":{"house":{"street":"Via
Golena","houseNumber":"31C"},"zip":{"zip":"6512","city":"Giubiasco"}},
    "logisticLocation":{"house":{"street":"Via
Golena","houseNumber":"31C"},"zip":{"zip":"6512","city":"Giubiasco"}}
  },
  {
    "id":"e3089ed6-35cd-47ed-b477-143396f96ef4",
    "type":"DOMICILE",
    "nickname":"test-zytglogge",
    "addressee":{"title":"MISTER","firstName":"Massimo","lastName":"Cotelli"},

   "geographicLocation":{"house":{"street":"Zytgloggelaube","houseNumber":"2","houseKey":"701091
5"},"zip":{"zip":"3011","city":"Bern"}},

   "logisticLocation":{"house":{"street":"Zytgloggelaube","houseNumber":"2","houseKey":"7010915"},
"zip":{"zip":"3011","city":"Bern"}}
  },
  {
    "id":"573b3a3c-43df-4c3b-aaf2-4c3c0ca8f315",
    "type":"POST_OFFICE",
    "nickname":"432",
    "addressee":{"title":"MISTER","firstName":"Massimo","lastName":"Cotelli"},

   "geographicLocation":{"house":{"street":"Bahnhofstrasse","houseNumber":"18","houseKey":"37651
"},"zip":{"zip":"611000","city":"Wolhusen"}},
```

```
     "logisticLocation":{"postBoxNumber":"999","house":{"street":"Postfach","houseKey":"37651"},"-
zip":{"zip":"6110","city":"Wolhusen"}}
  },
  {
    "id":"1abf6700-2a3c-49fb-bf2c-c1790d85352f",
    "type":"PICK_POST",
    "nickname":"Test Modifica",
    "addressee":{"title":"MISTER","firstName":"Massimo","lastName":"Cotelli"},

  "geographicLocation":{"house":{"street":"Brünigstrasse","houseNumber":"101","house-
Key":"174827"},
"zip":{"zip":"607200","city":"Sachseln"}},

    "logisticLocation":{"postBoxNumber":"5","house":{"street":"Postfach","houseKey":"174827"},"zip":
{"zip":"6072","city":"Sachseln"}}
  },
{
    "id":"b8dbdf51-6a6a-4ba4-aa55-45377277651f",
    "type":"MY_POST_24",
    "nickname":"mypost24",
    "addressee":{"title":"MISTER","firstName":"Massimo","lastName":"Cotelli"},
    "geographicLocation":{"house":{"street":"Avenue
A.Piccard","houseKey":"76419394"},"zip":{"zip":"101573","city":"Lausanne"}},
    "logisticLocation":{"house":{"street":"Avenue
A.Piccard","houseKey":"76419394"},"zip":{"zip":"1015","city":"Lausanne"}}
  },
  {
    "id":"36e720e8-a908-469e-9daf-6b376071a557",
    "type":"POSTBOX",
    "nickname":"testPF",
    "addressee":{"title":"MISTER","firstName":"Massimo","lastName":"Cotelli"},
    "geographicLocation":{"house":{"street":"Via
Galbisio","houseNumber":"2","houseKey":"72014233","zip":{"zip":"6503","city":"Bellinzona"}},
    "logisticLocation":{"postBoxNumber":"123","house":{"street":"Casella
postale","houseKey":"72014233"},"zip":{"zip":"6503","city":"Bellinzona"}}
  }
]
```

4.1.3 The main address of the end user

GET request

https://wedec.post.ch/api/address/v1/users/current/addresses/main

Response

```
{
  "type":"MAIN",
  "nickname":"KLP",
  "addressee":{"firstName":"Massimo","lastName":"Cotelli"},
  "geographicLocation":{"house":{"street":"Via Golena","houseNumber":"31C"},"zip":{"zip":"6512",
"city":"Giubiasco"}},
  "logisticLocation":{"house":{"street":"Via Golena","houseNumber":"31C"},"zip":{"zip":"6512","city":
"Giubiasco"}}
}
```

4.1.4 A single personal address of the end user

GET request

```
https://wedec.post.ch/api/address/v1/users/current/addresses/e3089ed6-35cd-47ed-b477-143396f96ef4
```

Response

```
{
  "id":"e3089ed6-35cd-47ed-b477-143396f96ef4",
  "type":"DOMICILE",
  "nickname":"test-zytglogge",
  "addressee":{"title":"MISTER","firstName":"Massimo","lastName":"Cotelli"},
  "geographicLocation":{"house":{"street":"Zytgloggelaube","houseNumber":"2","house-
  Key":"7010915"
,"zip":{"zip":"3011","city":"Bern"}},
  "logisticLocation":{"house":{"street":"Zytgloggelaube","houseNumber":"2","house-
  Key":"7010915"},"zip
:{"zip":"3011","city":"Bern"}}
}
```

4.1.5 Error codes

Code	Reason
200	OK
400	Invalid id parameter
403	Not authorized
404	No result found or address does not exist or is not owned by the currently authenticated Swiss Post user
500	Internal server error

5 Address Checker

5.1.1 Prerequisites

– OAuth access token for scope WEDEC_VALIDATE_ADDRESS. This scope does not require the consent of the end user and can be obtained from an authorization code grant flow or an implicit grant flow or a client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Address API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/address/v1/swagger.yaml

5.1.2 Validate a given address

POST request

```
https://wedec.post.ch/api/address/v1/addresses/validation
```

POST payload

```
{
   "addressee":{"firstName":"","lastName":"","title":"MISTER"},
   "geographicLocation":{
     "house":{"street":"Serafino Balestra","houseNumber":"20"},
     "zip":{"zip":"6600","city":"Locarno"}}
}
```

Response

```
{
  "quality":"CERTIFIED",
  "expires":"20141118T110056+0100",
  "address":{
    "id":"034ce086-c9bb-49df-9ed1-1b674e6d5717",
    "type":"DOMICILE",
    "addressee":{"title":"MISTER","firstName":"","lastName":""},
    "geographicLocation":{
      "house":{"street":"Serafino Balestra","houseNumber":"20","houseKey":"76439798"},
      "zip":{"zip":"6600","city":"Locarno"}}}
}
```

5.1.3 Error codes

Code	Reason
200	OK
400	Invalid address parameter
403	Not authorized
500	Internal server error

5.2 Address auto-completion

5.2.1 Prerequisites

– OAuth access token for scope WEDEC_AUTOCOMPLETE_ADDRESS. This scope does not require the consent of the end user and can be obtained from an authorization code grant flow or an implicit grant flow or a client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Address API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/address/v1/swagger.yaml

5.2.2 Zip auto-completion

GET request

```
https://wedec.post.ch/api/address/v1/zips?zipCity=66&type=DOMICILE
https://wedec.post.ch/api/address/v1/zips?zipCity=66&type=POSTBOX
```

Response

```
{
  "zips":[
    {"zip":"6600","city18":"Locarno","city27":"Locarno"},
    {"zip":"6600","city18":"Muralto","city27":"Muralto"},
    {"zip":"6600","city18":"Solduno","city27":"Solduno"},
    {"zip":"6601","city18":"Locarno","city27":"Locarno"},
    {"zip":"6602","city18":"Muralto","city27":"Muralto"},
    {"zip":"6604","city18":"Locarno","city27":"Locarno"},
    {"zip":"6605","city18":"Locarno","city27":"Locarno"},
    {"zip":"6605","city18":"Monte Brè Locarno","city27":"Monte Brè sopra Locarno"},
    {"zip":"6611","city18":"Crana","city27":"Crana"},
    {"zip":"6611","city18":"Gresso","city27":"Gresso"},
    {"zip":"6611","city18":"Mosogno","city27":"Mosogno"},
    {"zip":"6612","city18":"Ascona","city27":"Ascona"},
    {"zip":"6613","city18":"Porto Ronco","city27":"Porto Ronco"},
    {"zip":"6614","city18":"Brissago","city27":"Brissago"},
    {"zip":"6614","city18":"Isole di Brissago","city27":"Isole di Brissago"},
    {"zip":"6616","city18":"Losone","city27":"Losone"},
    {"zip":"6618","city18":"Arcegno","city27":"Arcegno"},
    {"zip":"6622","city18":"Ronco sopra Ascona","city27":"Ronco sopra Ascona"},
    {"zip":"6631","city18":"Corippo","city27":"Corippo"},
    {"zip":"6632","city18":"Vogorno","city27":"Vogorno"}
  ]
}
```

5.2.3 Street name auto-completion

GET request

```
https://wedec.post.ch/api/address/v1/streets?name=Via+Se
https://wedec.post.ch/api/address/v1/streets?name=Via+Se&zip=6600
```

Response

```
{
  "streets":[
    "Via Sempione",
    "Via Serafino Balestra"
  ]
}
```

5.2.4 House number auto-completion

GET request

```
https://wedec.post.ch/api/address/v1/houses?zip=6600&streetName=Via+Serafino+Balestra&number=2
```

Response

```
{
  "houses":["1","1 A","2","3","4","5","6","7","8","9 A"]
}
```

5.2.5 Error codes

Code	Reason
200	OK
400	Incomplete/invalid search parameters
403	Not authorized
404	No results found
500	Internal server error

6 Delivery

6.1 Delivery days query

6.1.1 Prerequisites

– OAuth access token for scope WEDEC_DELIVERY. This scope does not require the consent of the
  end user and can be obtained from an authorization code grant flow or an implicit grant flow or a
  client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Delivery API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  delivery/v1/swagger.yaml

6.1.2 The deliverabilities at Serafino Balestra 20, 6600 Locarno for the next 3 days

GET request

```
https://wedecint.post.ch/api/delivery/v1/deliverabilities/when?
address.geographicLocation.house.street=Serafino+Balestra&
address.geographicLocation.house.houseNumber=20&
address.geographicLocation.zip.zip=6600&
address.geographicLocation.zip.city=Locarno&
dayCount=3
```

Response

```
{
   "days":[
      {
         "deliveryDate":"2014-11-17",
         "deliverabilities":[],
         "activity":"NO_SERVICE"
      },
      {
         "deliveryDate":"2014-11-18",
         "deliverabilities":[
            {"incomingDate":"2014-11-17","productCode":"PRI"},
            {"incomingDate":"2014-11-17","productCode":"SEM"}],
            {"incomingDate":"2014-11-18","productCode":"AZS,DIR"},
            {"incomingDate":"2014-11-17","productCode":"AZS,PRI"}],
         "activity":"WORK"
      },
      {
         "deliveryDate":"2014-11-19",
         "deliverabilities":[
            {"incomingDate":"2014-11-17","productCode":"ECO"},
            {"incomingDate":"2014-11-18","productCode":"PRI"},
            {"incomingDate":"2014-11-18","productCode":"SEM"},
            {"incomingDate":"2014-11-19","productCode":"AZS,DIR"},
            {"incomingDate":"2014-11-18","productCode":"AZS,PRI"},
            {"incomingDate":"2014-11-17","productCode":"AZS,ECO"}],
         "activity":"WORK"
      },
      {
         "deliveryDate":"2014-11-20",
         "deliverabilities":[
            {"incomingDate":"2014-11-18","productCode":"ECO"},
            {"incomingDate":"2014-11-19","productCode":"PRI"},
            {"incomingDate":"2014-11-19","productCode":"SEM"}],
         "activity":"WORK"
      }
   ],
   "quality":"RELIABLE"
   "deliveryToTheDoor":"AVAILABLE"
}
```

6.1.3 The deliverabilities at 6600 Locarno (default date of first day = today, default day count = 14)

GET request

```
https://wedec.post.ch/api/delivery/v1/deliverabilities/when?address.geographicLocation.zip.zip=6600&ad-
dress.geographicLocation.zip.city=Locarno
https://wedec.post.ch/api/delivery/v1/deliverabilities/when?address.geographicLocation.zip.zip=6600&ad-
dress.geographicLocation.zip.city=Locarno&date=2014-11-17&dayCount=2
https://wedec.post.ch/api/delivery/v1/deliverabilities/when?address.geographicLocation.zip.zip=6600&ad-
dress.geographicLocation.zip.city=Locarno&dayCount=2
```

Response

```
{
  "days":[
    {
      "deliveryDate":"2014-11-17",
      "deliverabilities":[],
      "activity":"NO_SERVICE"
    },
    {
      "deliveryDate":"2014-11-18",
      "deliverabilities":[
        {"incomingDate":"2014-11-17","productCode":"PRI"},
        {"incomingDate":"2014-11-17","productCode":"SEM"}],
      "activity":"WORK"
    },
    {
      "deliveryDate":"2014-11-19",
      "deliverabilities":[
        {"incomingDate":"2014-11-17","productCode":"ECO"},
        {"incomingDate":"2014-11-18","productCode":"PRI"},
        {"incomingDate":"2014-11-18","productCode":"SEM"}],
      "activity":"WORK"
    }
  ],
  "quality":"RELIABLE"
  "deliveryToTheDoor":"AVAILABLE"
}
```

6.1.4 The deliverabilities at 6959 Piandera Paese for the given delivery dates

GET request

```
https://wedec.post.ch/api/delivery/v1/deliverabilities/when?
address.geographicLocation.zip.zip=6959&
address.geographicLocation.zip.city=Piandera+Paese&
deliveryDates=2014-12-24&
deliveryDates=2014-12-25
```

POST request

```
https://wedecint.post.ch/api/delivery/v1/deliverabilities/when
```

POST payload

```
{
   "address": {
     "geographicLocation": {
       "zip": {
         "zip": 6959,
         "city": "Piandera Paese"
       }
     }
   },
   "deliveryDates": ["2014-12-24","2014-12-25"]
}
```

Response

```
{
   "days":[
     {
       "deliveryDate":"2014-12-24",
       "deliverabilities":[
         {"incomingDate":"2014-12-22","productCode":"ECO"},
         {"incomingDate":"2014-12-23","productCode":"PRI"},
         {"incomingDate":"2014-12-23","productCode":"SEM"}],
       "activity":"WORK"
     },
     {
       "deliveryDate":"2014-12-25",
       "deliverabilities":[],
       "activity":"HOLIDAY"}
   ],
   "quality":"RELIABLE"
   "deliveryToTheDoor":"AVAILABLE"
}
```

6.1.5 Error codes

Code	Reason
200	OK
403	Not authorized
404	No results found
500	Internal server error

6.2 Logistic product information query

6.2.1 Prerequisites

– OAuth access token for scope WEDEC_DELIVERY. This scope does not require the consent of the
  end user and can be obtained from an authorization code grant flow or an implicit grant flow or a
  client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Delivery API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  delivery/v1/swagger.yaml

6.2.2 The information for the logistic product "PRI"

GET request

```
https://wedec.post.ch/api/delivery/v1/deliverabilities/how/PRI
```

Response

```
{
   "productCode":"PRI",
   "barcode":"0509",
   "deliveryInstructions":[
     {"code":"3211"},{"code":"3212"},{"code":"3213"},{"code":"3214"},{"code":"3215"},{"code":
     "3216"},
     {"code":"3217"},{"code":"3218"},{"code":"3219"},{"code":"3220"},{"code":"3222"},{"code":
     "3232"},
     {"code":"3233"},{"code":"3234"}],
   "additionalServices":[
     {"code":"BLN","mandatory":false},
     {"code":"COLD","mandatory":false},
     {"code":"RMP","mandatory":false},
     {"code":"SP","mandatory":false},
     {"code":"MAN","mandatory":false},
     {"code":"FRA","mandatory":false},
     {"code":"AS","mandatory":false},
     {"code":"SI","mandatory":false},
     {"code":"LQ","mandatory":false}]
}
```

6.2.3 Other logistic products

GET request

```
https://wedec.post.ch/api/delivery/v1/deliverabilities/how/ECO
https://wedec.post.ch/api/delivery/v1/deliverabilities/how/SEM
```

6.2.4 Error codes

Code	Reason
200	OK
403	Not authorized
404	No results found
500	Internal server error

6.3 Additional services information query

6.3.1 Prerequisites

– OAuth access token for scope WEDEC_DELIVERY. This scope does not require the consent of the
  end user and can be obtained from an authorization code grant flow or an implicit grant flow or a
  client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Delivery API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  delivery/v1/swagger.yaml

6.3.2 Information for all additional services

GET request

https://wedec.post.ch/api/delivery/v1/options/additionalservices

Response

```
[
  {
    "code":"BLN",
    "name":{
      "de":"BLN",
      "fr":"BLN",
      "it":"BLN",
      "en":"BLN"},
    "barcode":"0341"
  },
  {"code":"COLD","name":{"de":"COLD","fr":"COLD","it":"COLD","en":"COLD"},"bar-
code":"3781"},
  {"code":"RMP","name":{"de":"RMP","fr":"RMP","it":"RMP","en":"RMP"},"barcode":"0322"},
  {"code":"SP","name":{"de":"SP","fr":"SP","it":"SP","en":"SP"},"barcode":"0309"},
  {"code":"MAN","name":{"de":"MAN","fr":"MAN","it":"MAN","en":"MAN"},"barcode":"0421"},
  {"code":"FRA","name":{"de":"FRA","fr":"FRA","it":"FRA","en":"FRA"},"barcode":"0310"},
  {"code":"AS","name":{"de":"AS","fr":"AS","it":"AS","en":"AS"},"barcode":"0308"},
  {"code":"SI","name":{"de":"SI","fr":"SI","it":"SI","en":"SI"},"barcode":"0307"},
  {"code":"LQ","name":{"de":"LQ","fr":"LQ","it":"LQ","en":"LQ"},"barcode":"0549"},
  {"code":"SA","name":{"de":"SA","fr":"SA","it":"SA","en":"SA"},"barcode":"0543"},
  {"code":"AZS","name":{"de":"AZS","fr":"AZS","it":"AZS","en":"AZS"},"barcode":"0581"}
]
```

6.4 Delivery instructions information query

6.4.1 Prerequisites

– OAuth access token for scope WEDEC_DELIVERY. This scope does not require the consent of the
  end user and can be obtained from an authorization code grant flow or an implicit grant flow or a
  client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Delivery API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  delivery/v1/swagger.yaml

6.4.2 Information for all delivery instructions

GET request

https://wedec.post.ch/api/delivery/v1/options/deliveryinstructions

Response

```
[
  {
    "code":"3211",
    "barcode":"3211",
    "name":{
      "de":"Sendung dem Empfänger direkt auf der Etage zustellen",
      "fr":"Sendung dem Empfänger direkt auf der Etage zustellen",
      "it":"Sendung dem Empfänger direkt auf der Etage zustellen",
      "en":"Sendung dem Empfänger direkt auf der Etage zustellen"},
    "editable":false,
    "placeHolderNames":[],
    "optionNames":[]
  },
  …
]
```

6.4.3 Error codes

Code	Reason
200	OK
403	Not authorized
404	No results found
500	Internal server error

6.5 Holidays query

6.5.1 Prerequisites

– OAuth access token for scope WEDEC_DELIVERY. This scope does not require the consent of the
  end user and can be obtained from an authorization code grant flow or an implicit grant flow or a
  client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Delivery API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  delivery/v1/swagger.yaml

6.5.2 The list of holidays

GET request

https://wedec.post.ch/api/delivery/v1/options/holidays

Response

```
[
  {
    "date":"2014-12-24",
    "name":{
      "de":"Weihnachten",
      "fr":"Weihnachten",
      "it":"Weihnachten",
      "en":"Weihnachten"}
  },
  …
]
```

6.5.3 Error codes

Code	Reason
200	OK
403	Not authorized
404	No results found
500	Internal server error

7 PickPost / My Post 24

New
chapter

7.1 Get PickPost ID or My Post 24 ID for a specific user

7.1.1 Prerequisites

– OAuth access token for scope WEDEC_PICKPOST. This scope does not require the consent of the end user
  and can be obtained from:
  – an authorization code grant flow
  – an implicit grant flow
  – a client credential grant flow
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Integration of the "Location search" map application:
  – Fill the registration form for the "Location search" (Link). You then receive the "Location search"
    API key.
  – You need to obtain a Google Maps API key. Registration with Google is a necessary prerequisite
    for this.
  – Make the necessary changes in the HTML code in order to integrate the Swiss Post location search
    into your website.
  – You can find a detailed manual for the integration of the "Location search" map application here.
– PickPost API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  pickpost/v1/swagger.yaml

7.1.2 Retrieve the PickPost ID (or My Post 24 ID) of a customer

POST request

https://wedecint.post.ch/api/pickpost/v1/users

POST payload

```
{
  "userDetails": {
    "gender": "MALE",
    "firstName": "Test",
    "lastName": "User",
    "language": "DE"
  },
  "address": {
    "house": {
      "street": "Bellerivestrasse",
      "houseNumber": "5"
    },
    "zip": {
      "zip": "8008",
      "city": "Zürich",
      "countryCode": "CH"
    }
  },
  "notification": {
    "notifyMode": "EMAIL",
    "email": "testuser1@post.ch"
  },
  "service": "PICKPOST"
}
```

Response

```
{
  "id": "PT011227",
  "verified": "NONE"
}
```

7.1.3 Error codes

Code	Reason
200	OK
403	Not authorized
500	Internal server error

8 Barcode

New chapter

8.1 Prerequisites

– OAuth access token for scope WEDEC_BARCODE_READ. This scope does not require the consent
  of the end user and can be obtained from a client credential grant flow.
– Bearer access token stored in the header of the request:
  Authorization: Bearer <OAuth access token>
– Barcode API | INT | https://wedecint.post.ch/doc/swagger/index.html?url=https://wedecint.post.ch/doc/api/
  barcode/v1/swagger.yaml

8.2 Label formats

– A7 format (74×105 mm)
– A6 format (105×148 mm)
– A5 format (148×210 mm): only available for Domestic Parcels, Express and Solutions

8.2.1 Recipient's address – maximum number of address lines (concerns the "GenerateLabel" request)

The number of address lines that can be printed on an address label is limited because there is a limited
amount of space on the labels. Depending on the selected format, the selected basic service, the number of
address fields and, if applicable, the delivery instructions (ZAW) or free text, not all address lines can be
printed.

Rules when exceeding the maximum amount of address lines
When the maximum permitted amount of address lines is exceeded, address lines are omitted from the
address label in the order below. This only applies to address lines from the "Recipient" address block
and – if applicable and permissible – for free text:
1. Title (Title) is omitted
2. Address suffix (AddressSuffix) is omitted
3. Name 3 (Name3) is omitted
4. Free text (FreeText) is omitted

Please find some examples further down.

Data transmission
The information from the "AddressSuffix" address field element is not transmitted to DataTransfer, regardless
of the number of address lines used.

"LabelAddress" address block
When using the "LabelAddress" address block, you can define yourself which recipient's address lines are to
be printed on the address label and in what order for a minimum of 2 and a maximum of 5 address lines
(LabelLine1 to LabelLine5). An exception applies to the fields "ZIP" and "City" (and, for international mailings,
also to "Country"), which are taken across from the "Recipient" address block. This means that you must
define the procedure to be used yourself if the maximum amount of address lines is exceeded.

Maximum number of address lines per DLG and format	Format A7[1]	Format A6	Format A5
DLG parcel incl. any free text (up to 1 delivery instruction)	6[1]	8	8
DLG parcel incl. any free text (with 2 delivery instructions)	–	6	8
DLG Express incl. any free text (up to 1 delivery instruction)	6[1]	8	8
DLG Express incl. any free text (with 2 delivery instructions)	–	6	8
DLG solutions, VinoLog **only** incl. any free text (up to 1 delivery instruction)	–	7	7
DLG solutions, VinoLog **only** incl. any free text (with 2 delivery instructions)	–	5	7
DLG solutions, **without** VinoLog incl. any free text (up to 1 delivery instruction)	5[1]	7	7
DLG solutions, **without** VinoLog incl. any free text (with 2 delivery instructions)	–	5	7

[1] Delivery instructions are not possible for A7 format.

Examples for addressing rules for the "Recipient" address block

The examples below apply only if the "LabelAddress" address block is not used. Missing information in the recipient's address is completed using the contents of the "Recipient" address block and – if available – the free text.

Example 1: **Format A6, max. 1 ZAW, DLG parcels** Details in the "Recipient" block + free text: **8 address lines**		Details on the address label: max. no. of address lines allowed: **8** **no adjustment by WSBC required**
FreeText	(1st address line)	FreeText
Title	(2nd address line)	Title
Firstname	(3rd address line)	Firstname Name1
Name1	(3rd address line)	Name2
Name2	(4th address line)	Name3
Name3	(5th address line)	AddressSuffix
AddressSuffix	(6th address line)	Street HouseNo
Street	(7th address line)	ZIP City
HouseNo	(7th address line)	
ZIP	(8th address line)	
City	(8th address line)	

Example 2: **Format A6, 1 ZAW, DLG parcels** Details in the "Recipient" block + free text: **8 address lines**		Details on the address label: max. no. of address lines allowed: **6** **automatic adjustment by WSBC required**
FreeText	(1st address line)	FreeText
Title	(2nd address line)	~~Title~~
Firstname	(3rd address line)	Firstname Name1
Name1	(3rd address line)	Name2
Name2	(4th address line)	Name3
Name3	(5th address line)	~~AddressSuffix~~
AddressSuffix	(6th address line)	Street HouseNo
Street	(7th address line)	ZIP City
HouseNo	(7th address line)	
ZIP	(8th address line)	
City	(8th address line)	

8.3 Printer resolution (dpi)

200 dpi (equivalent to 203 dpi on Zebra label printers)
300 dpi (equivalent to 305 dpi on Zebra label printers)
600 dpi (equivalent to 610 dpi on Zebra label printers)

8.4 Image formats / printer languages

EPS
GIF
JPG (not recommended as barcode may not have high enough quality)
PNG
PDF
sPDF[1]
ZPL2

[1] Format sPDF is a PDF file without embedded fonts. In order to display this format correctly, the Arial font must be installed on your computer. The generation and transmission times are faster with sPDF than with PDF.

8.5 Layout options for express items

The basic service barcodes for SameDay and Swiss-Express "Moon" services are printed in colour.
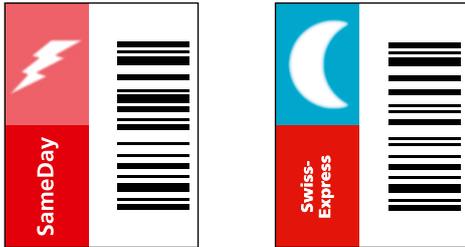
If there is no possibility to print the corresponding basic service barcode in colour on the address label, it can be printed in black and white. However, an additional, coloured basic service barcode must then be affixed to the item.

The coloured stickers can be ordered via www.swisspost.ch/online-services > Order forms & brochures.

8.6 Label generation time and file sizes

The time it takes to generate a label and the corresponding file size depend on the format selected, the printer resolution, the sender's logo and the image format / printer language used. The speed of the Internet connection is also a key factor. It is therefore very important to have a fast connection. The table below gives some guideline values (measured with transfer rate of 45,000 kbps, without a sender's logo). However, these do not take the data rate of your Internet connection into account, which could have a major impact on performance. These are average figures for formats A5, A6 and A7.

Image formats/ printer languages	Average figure, only generation time in milliseconds	Average including data transmission in milliseconds
EPS	~ 50	500–1000
GIF	~ 100	500–1000
JPG	~ 300	750–1500
PNG	~ 400	750–1500
PDF	~ 50	500–1000
sPDF	~ 15	300–750
ZPL2	~ 5	300–750

8.7 Sender's logo

The sender's address must always be entered in the "Barcode" web service. You can hide the display of the sender details on the address label or display them as a text or image (e.g. company logo).

If using an image/logo, please note the following:
– File size: max. 50 KB
– File format: GIF, PNG or JPG

You can control how your image/logo is printed on address labels with the following four optional fields:
– Aspect ratio: Using this field, you can decide whether the original ratio of width to height should be maintained or scaled to 47 mm × 25 mm.
– Vertical align: Using this field, you can decide whether the logo should be aligned vertically at the top or in the middle.
– Horizontal align: Using this field, you can decide whether the logo should be aligned horizontally at the left margin or flush with the barcode.
– Rotation: Using this field, you can decide whether the logo should be printed in portrait or landscape orientation on the address label (clockwise rotation options: 0°/90°/180°/270°).

If no settings are changed in these fields, your image/logo will be automatically printed with the following settings:
– Scaling to the aspect ratio of 1.88 (image width: 47 mm / image height: 25 mm)
– The logo will be printed rotated anti-clockwise by 90°.

We recommend using a black and white logo for printing in the ZLP2 format.

8.8 Printer models approved for "Barcode" web service

When your system receives them, you can forward the labels generated by the "Barcode" web service directly to a continuous label printer. This is possible with printer language ZPL2. In order for this to work, the printer models used must support ZPL2 as a printer language, otherwise the quality requirements for homologation of the labels will not be met.

Ideally you should use one of the printer models we have already homologated. To ensure adequate barcode print quality, you should always use high-quality shipping label materials. An overview of our homologated printer models is available at www.swisspost.ch/post-mypostbusiness-auftrag-druckermodelle.

Note also that shipping labels are printed in either landscape or portrait format, depending on the specifications of the homologated printer models.

8.9 Overview for service codes (DLC) – Domestic Parcels, Express and Solutions

The service descriptions for the following basic and additional services plus delivery instructions can be found at www.swisspost.ch/post-distribution-national.

Combinations of multiple service codes, e.g. "PRI, SP", are split into their individual elements. The following is given as an example (sequencing of individual content does not matter):
– <PRZL>PRI</PRZL>
– <PRZL>SP</PRZL>

DLC	Basic services
ECO	PostPac Economy
PRI	PostPac Priority
SP, ECO	Bulky goods Economy
SP, PRI	Bulky goods Priority
PPR	PostPac Promo
SEM	Swiss-Express "Moon"
SEM, SP	Bulky goods "Moon"
SKB	SameDay afternoon/evening
SKB, SP	SameDay afternoon/evening bulky goods
VL	VinoLog
DIRECT	Direct[1]
GAS, ECO	PostPac Economy GAS
GAS, PRI	PostPac Priority GAS
GAS, SP, ECO	Bulky goods Economy GAS
GAS, SP, PRI	Bulky goods Priority GAS
GAS, SEM	Swiss-Express "Moon" GAS
GAS, SKB	SameDay afternoon/evening GAS

DLC	Additional services
FRA	Fragile
MAN	Manual processing
RMP	Personal delivery
SI	Signature
AS	Signature (insurance)
COLD	Disposet Cold
BLN	Electronic COD
LQ	Limited Quantities (hazarouds goods)
SA	Saturday delivery
AZS	Evening delivery[2]
ZFZ0912	Time slot delivery 9–12[2]
ZFZ1114	Time slot delivery 11–14[2]
ZFZ1316	Time slot delivery 13–16[2]
ZFZ1518	Time slot delivery 15–18[2]

DLC	Delivery instructions
ZAW3211	Direct delivery to an upper floor (A)
ZAW3212	Do not place in letterbox; deliver manually or notify (B)
ZAW3213	Notify delivery by telephone (C)
ZAW3214	Place in letterbox or at front door (D)
ZAW3215	Deliver contents; take back box (K)
ZAW3216	Failed delivery; return item as priority on the same day (E)
ZAW3217	Specific delivery date, deliver on ... (F)
ZAW3218	Deliver when all items have arrived (G)
ZAW3219	Deposit item (H)
ZAW3220	Follow delivery information in document pouch (I)
ZAW3222	Present item; leave in cellar (L)
ZAW3232	You require a contract with Post CH Ltd[3]
ZAW3233	Exchange/Return[4]
ZAW3234	Do not deliver to mailbox or neighbour: do not leave anywhere

DLC	Combination code (comprising multiple DLC)
PRISI	PRI + SI
PRIAZS	PRI + AZS
PRIAZSI	PRIORITY + AZS + SI (NB: only one S in DLC)
DIRAZS	DIRECT + AZS
DIRAZSI	DIRECT + AZS + SI (NB: only one S in DLC)
PRI0912	PRI + ZFZ0912
PRI1114	PRI + ZFZ1114
PRI1316	PRI + ZFZ1316
PRI1518	PRI + ZFZ1518
PRISI09	PRI + SI + ZFZ0912
PRISI11	PRI + SI + ZFZ1114
PRISI13	PRI + SI + ZFZ1316
PRISI15	PRI + SI + ZFZ1518

[1] Basic service DIRECT can only be used in conjunction with AZS.

[2] When using the AZS (Evening delivery) and ZFZ (Time slot delivery) value-added services, we recommend you first perform an area check for each recipient address via your connection to the Digital Commerce API – Swiss Post shipping options.

[3] For the collection of empty containers or materials for recycling – please contact your customer advisor for further information.

[4] Only available in conjunction with notification service code 128 ("Exchange/return").

8.10 Generate Label request (Generate Label)

Element	Cardinality	Type	Description	Example (if appropriate)
GenerateLabel	1..1	GenerateLabel	Root element of Generate address label operation	
Language	1..1	Enumeration (de, fr, it, en)	Language in which the service is activated	de
Envelope	1..1	GenerateLabel Envelope	Content holder	
LabelDefinition	1..1	GenerateLabel Definition	Content holder with address label details	
LabelLayout	1..1	String (2, [a-zA-Z,0-9]{2})	Address label layout	A5
PrintAddresses	1..1	Enumeration (None, OnlyRecipient, OnlyCustomer, RecipientAnd Customer)	Details on the printing of sender's and recipient's address (delivery note) None – no addresses are printed OnlyRecipient – only the recipient's address is printed OnlyCustomer – only the customer's address is printed RecipientAndCustomer – Both the sender's and the recipient's addresses are printed	OnlyRecipient
ImageFileType	1..1	String (1..5, [a-zA-Z,0-9] {1,5})	Address label file format	PDF
ImageResolution	1..1	Integer	Address label resolution in DPI (dots per inch)	300
PrintPreview	1..1	Boolean	PrintPreview enabled/disabled (SPECIMEN lettering from the label generated)	true
FileInfos	1..1	Generate FileInfos	Content holder	
FrankingLicense[2]	1..1	String (4..8, [a-zA-Z,0-9]{4} or [0-9]{6} or [0-9]{8})	Customer franking licence number or postcode	
PpFranking[4]	1..1	Boolean	Indicates whether the PP flag has been set or not	true
CustomerSystem	0..1	String(0..255), [a-zA-Z,0-9,\s] {1,255}	Indicates optional parameters for customer system names	AVG Client
Customer	1..1	Generate Customer	Content holder with customer details. Refers to the sender's customer	
Name1	1..1	String (0..25)	First name and surname, or company name	Meier AG
Name2	0..1	String (0..25)	Additional name 1 (company suffix or department)	General Agency
Street	1..1	String (0..25)	Address (house number and street)	Viktoriaplatz 10
POBox	0..1	String (0..25)	P.O. Box	P.O. Box 4021
ZIP	1..1	Integer (0..6)	Postcode	8048

Element	Cardinality	Type	Description	Example (if appropriate)
City	1..1	String (0..25)	Place	Zurich
Country	0..1	String (2, [a-zA-Z]{2})	Country as two-digit ISO-3166-1-alpha-2 code	CH
Logo	0..1	Binary (Base64)	Binary customer logo	
LogoFormat	0..1	String (3)	Logo format	GIF
LogoRotation	0..1	Enumeration (0, 90, 180, 270)	Clockwise rotation	270
LogoAspectRatio	0..1	Enumeration (EXPAND, KEEP)	Aspect ratio (width to height)	EXPAND
LogoHorizontalAlign	0..1	Enumeration (WITH_CONTENT, LEFT)	Horizontal alignment	WITH_ CONTENT
LogoVerticalAlign	0..1	Enumeration (TOP, MIDDLE)	Vertical alignment	TOP
DomicilePostOffice	0..1	String (0..35)	Domicile Post Office	3097 Liebefeld
Data	1..1	GenerateData	Content holder	
Provider	1..1	Generate Provider	Content holder	
Sending	1..1	Generate Sending	Content holder	
SendingID	0..1	String (0..50)	ID assigned by customer at request level is returned unchanged in the response. If no SendingID is supplied, WSBC generates a random number.	
Item	1..n	GenerateItem	Content holder per address label	
ItemID[2]	0..1	String (0..200)	ID assigned by customers at address label level will be returned unchanged in the response	
ItemNumber[2]	0..1	String (0..8, [0-9]{1,8})	Mailing number	12345678
IdentCode[2]	0..1	String (13..23, [0-9]{18} or [0-9]{23} or [a-zA-Z,0-9]{13})	Mailing code. For use by Swiss Post internal systems only. In systems external to Swiss Post this field is ignored and a warning returned.	9934123456 12345678
Recipient[3]	1..1	Generate Recipient	Content holder with recipient details	
PostIdent	0..1	String (0..15)	Postal identification	
Title	0..1	String (0..35)	Salutation	Ms
PersonallyAddressed	0..1	Boolean	When set to FALSE, indicates the company first, then the recipient, on the address label Toggles to TRUE Default True.	True
Firstname	0..1	String (0..35)	First name of recipient	Melanie

Element	Cardinality	Type	Description	Example (if appropriate)
Name1	1..1	String (0..35)	Last name and first name (if not in Firstname)	Steiner
Name2	0..1	String (0..35)	Additional name 1 (company suffix, department or keyword & PickPost / My Post 24 UserID)	Marketing Dept. or PickPost 12345678
Name3	0..1	String (0..35)	Additional name 2 (Attn/FAO; c/o or department [if not in Name2])	Attn/FAO Hans Meier
AddressSuffix	0..1	String (0..35)	Additional name address	East building
Street[1]	0..1	String (0..35)	Street	Viktoriastrasse
HouseNo	0..1	String (0..10)	House number	21
POBox[1]	0..1	String (0..35)	Name "P.O. box" and – if available – P.O. box number	P.O. Box 4021
FloorNo	0..1	String (0..5)	Floor number (data transfer only, not printed on address labels)	3a
MailboxNo	0..1	Integer (0..10)	Letter box number (data transfer only, not printed on address labels)	10
ZIP	0..1	String (0..10)	Postcode	3030
City	1..1	String (0..35)	Place	Berne 1
Country	0..1	String (2, [a-zA-Z]{2})	Country – two-digit ISO 3166-1-alpha-2 code	CH
Phone	0..1	String (0..20)	Telephone number (for delivery instruction 3213)	031 338 11 11
Mobile	0..1	String (0..20)	Mobile number (for delivery instruction 3213)	031 338 11 11
Email	0..1	String (0..160)	E-mail address	h.muster@ post.ch
LabelAddress	0..1	LabelAddress	Used in order to display the address lines in a customized order, or to specifically abbreviate long addresses. The postcode and location are taken across from the "Recipient" address block.	
LabelLine	2..5	String (0..35)	Contents of the recipient address lines, min. 2 and max. 5 address lines (the postcode and location fields are automatically taken across from the "Recipient" address block.	
AdditionalINFOS	0..1	Generate Additional INFOS	Content holder	
AdditionalData	0..20	Generate Additional Data	Content holder	
Type		String (0..35)	**General keys for electronic cash on delivery (BLN)**	
	1..1		COD amount in CHF	NN_BETRAG
	1..1		**Additional keys for BLN with ISR** ISR reference number	NN_ESR_ REFNR
Value	1..1	String (0..50)	Value for additional information, must be separated by decimal point (comma not allowed)	150.50

Element	Cardinality	Type	Description	Example (if appropriate)
Attributes	0..1	Generate Attributes	Content holder	
PRZL	1..n	String (1..7, [a-zA-Z,0-9] {1,7})	Service code (DLC)	ECO, PRI, SP
FreeText	0..1	String (0..34)	Free text for recipient address	Thank you for your order
DeliveryDate	0..1	Date	Delivery date (for delivery instruction 3217)	2009-08-20
ParcelNo	0..1	Integer (0..99)	Parcel number of total (for delivery instruction 3218)	2
ParcelTotal	0..1	Integer (0..99)	Total number of parcels (for delivery instruction 3218)	5
DeliveryPlace	0..1	String (0..35)	Drop point (for delivery instruction 3219)	At front door
ProClima	0..1	Boolean	Printing of ProClima logo	
Dimensions	0..1	Dimensions	Content holder for dimensions	
Weight	0..1	Integer (0..99'999)	Weight in grams (limited to 5 digits) for Parcels, Express and Solutions service groups	12500
UNNumbers	0..1	_	Content holder for UN number for the "LQ" (hazardous goods) additional service	
UNNumber	0..n	Integer (0..9'999)	List of UN numbers (limited to 4 digits) for "LQ" additional service (hazardous goods)	1234, 1235, 1236
Notification	0..15	Generate Notification	List of notification services	
Type	1..1	String (Mail, SMS)	Means of communication	SMS or EMAIL
Service	1..1	Integer (0..20)	Service code	1, 2, 128
FreeText1	0..1	String (0..160)	Free text 1	Test 1
FreeText2	0..1	String (0..512)	Free text 2	Test 2
Language	1..1	Language	Language	DE, FR, IT or EN
Communication	1..1	Generate-Communica-tion	Content holder for communication medium	Email or Mobile
Email	0..1	String (0..160)	E-mail address	a@b.ch
Mobile	0..1	String (9..20)	Mobile number	+41791234567

[1] Domestic Parcels, Express and Solutions: either address **or** P.O. box permitted. BMB domestic: state address **and** P.O. box with number (if applicable). P.O. Box details are compulsory fpr Dispomail and Dispomail Easy. BMB international: no rules. All address components must be split between Address 1 and Address 2.

[2] Validation logic for FrankingLicence, ItemID, ItemNumber and IdentCode fields:
   – FrankingLicence: Mandatory (left-pad with zeros up to 8 digits)
   – ItemID: Optional, any value
   – ItemNumber: Optional, any value. If filled in, validation for uniqueness. If ItemNumber is empty, the item number is generated and the identcode is generated from this item number and the franking licence.
   – IdentCode: Not permitted. If this field is filled, it will be ignored and a warning will also be returned. IdentCode is provided solely for internal calls at Swiss Post.

[3] With the basic services with GAS, the recipient is the return address in accordance with the contractual terms for business reply items.

8.10.1 Posting BLN (electronic COD) via "Barcode" web service (for "Parcels" and "Swiss-Express")

BLN-defined transaction types

If you already use the "Barcode" web service actively and would later like to programme BLN, we can provide a test environment for you. Please contact Web Service Support for further information.

The credit note for COD amounts can be applied by means of two different account types:
1. Yellow Account with inpayment slip (IS) from PostFinance, with upper limit on domestic transactions.
2. By Swiss Post ISR.

With transaction type 1 (yellow Account IS) only the COD amount is required. With transaction type 2 (Swiss Post ISR) both the COD amount and the ISR reference number is required.

ISR reference number

For the ISR reference number, the following data format is valid (excerpt from the PostFinance manual on "Record Structures – electronic Services")
www.postfinance.ch/content/dam/pf/de/doc/consult/manual/dldata/efin_recdescr_man_en.pdf

Reference number	84	9(27)	For 5-digit ISR customer numbers 00000000000099999999999999 For 9-digit ISR customer numbers 999999999999999999999999999P	Mandatory	The reference number is printed on the processing document in blocks of 5, whereby leading zeros can be suppresses. The details must be entered in the field with right alignment, empty positions must be extended with leading zeros. Reference numbers with the value "0" (zero) will be rejected. We recommaned that you recalculate and compare the check digit (modulo 10, recursive).

Yellow Account with inpayment slip (TransactionType 1)

Element	Cardinality	Type	Description	Example (if appropriate)
AdditionalINFOS	0..1	–	Content holder	
AdditionalData	0..20	–	Content holder	
Type	1..1	String (0..35)	Field for COD amount	NN_BETRAG
Value	1..1	String (0..50)	COD amount, must be separated by decimal point (comma not allowed)	150.50

Swiss Post ISR (TransactionType 2)

Element	Cardinality	Type	Description	Example (if appropriate)
AdditionalINFOS	0..1	–	Content holder	
AdditionalData	0..20	–	Content holder	
Type	1..1	String (0..35)	Field for COD amount	NN_BETRAG
Value	1..1	String (0..50)	COD amount, must be separated by decimal point (comma not allowed)	150.50
Type	1..1	String (0..35)	Field for ISR reference number	NN_ESR_REFNR
Value	1..1	String (0..50)	Reference number	Reference number

8.10.2 Notification services

Notification code

In the "Notification" element, the "Service" field has the following valid values:

Notification	Code
Proof of posting	1
Delivery information	2
Collection information	4
Reminder to recipient	32
Handover status to sender	64
"Exchange/return"	128[1]
Saturday delivery	256[2]
Evening delivery following days	257[3]
Evening delivery same day	258[4]

[1] This notification service can only be used with delivery instruction ZAW3233.
[2] This notification service can only be used with the additional service "SA".
[3] This notification service can only be used with the additional service "AZS" and the basic service PostPac Priority, bulky goods Priority, PostPac Economy or bulky goods Economy.
[4] This notification service can only be used with the additional service "AZS" and the basic services SameDay afternoon/evening, SameDay afternoon/evening bulky goods or "Direct".

Notification text messages

The description of the content of SMS and e-mail messages as well as technical specifications regarding free text are available at www.swisspost.ch/post-e-log-avisierungsservices-details.

8.11 Retrieve the Barcode Label

POST request

https://wedecint.post.ch/api/barcode/v1/generateAddressLabel

POST payload

```
{
  "language":"DE",

  "frankingLicense": "35900034",
  "customer": {
      "name1": "Test Kunde",
      "street": "Wankdorfallee 4",
      "zip": "3030",
      "city": "Bern",
      "domicilePostOffice":"3011 Bern",
      "country": "CH"
  },

  "labelDefinition": {
      "labelLayout": "A6",
      "printAddresses": "RECIPIENT_AND_CUSTOMER",
      "imageFileType": "JPG",
      "imageResolution": 300
  },
  "item":
  {
          "itemID": "1234567",
          "recipient": {
              "name1": "Hans",
              "name2": "Muster",
              "street": "Wankdorfallee",
              "houseNo": "4",
              "zip":"3030",
              "city": "Bern",
              "country": "CH"
          },
          "attributes": {
              "przl": ["PRI","SA"],
              "weight":12345
          }
      }
}
```

Response

```
{
  "labelDefinition" : {
    "labelLayout" : "A6",
    "imageFileType" : "jpg",
    "imageResolution" : 300,
    "printPreview" : false,
    "colorPrintRequired" : true
  },
  "item" : {
    "itemID" : "1234567",
    "identCode" : "993590003400000002",
    "label" : [ "<Base64Image>" ]
  }
}
```

8.11.1 Error messages

Every error message consists of a four-digit error code prefixed by "E" (E1234), beginning at E1000, plus an associated error text. The web service returns the error texts in the specified language (German, French, Italian or English).

If an error message is returned, the requested service is not executed and is rejected. The error must be corrected and the call repeated.

The curly brackets are placeholders and are replaced by the relevant values in the actual error message.

Error code	Error message (English)
E1000	The desired combination of the basic service codes ({0}) is invalid.
E1001	The desired additional services ({0}) cannot be combined with the requested basic service ({1}).
E1002	The requested additional services ({0}) cannot be combined with each other.
E1003	The desired delivery instructions ({0}) cannot be combined with the requested basic service ({1}).
E1004	The desired delivery instructions ({0}) cannot be combined with the requested additional services ({1}).
E1005	The requested delivery instructions ({0}) cannot be combined with each other.
E1006	The stated number of basic and additional service codes ({0}) exceeds the maximum number of presentable service codes for the desired presentation type. Please reduce the number of service codes or choose a larger presentation format.
E1007	The stated number of delivery instructions ({0}) exceeds the maximum number of presentable delivery instructions for the desired presentation type. Please reduce the number of delivery instructions or choose a larger presentation format.
E1008	The desired service group is invalid.
E1009	The desired basic service is invalid.
E1011	The stated presentation type ({0}) is invalid.
E1012	The stated service code ({0}) is invalid for the desired service group ({1}).
E1013	The stated presentation type ({0}) is invalid for the desired service group ({1}).
E1014	An additional service with COD amount must be selected (BLN).
E1015	No valid basic service codes could be found in the list of service codes ({0}).
E1016	The presentation time ({0}) is invalid for the basic service selected ({1}).
E2001	A valid recipient address must be stated.
E2002	A domicile post office must be provided.
E2003	The COD amount must be provided for COD items (BLN).
E2004	The ISR reference number for the electronic COD (BLN) is invalid. Please check the format and check digit.
E2005	A telephone number must be provided for the delivery instruction "Notify delivery by telephone" (ZAW3213).
E2006	A valid delivery date must be stated for the delivery instruction "Specific delivery date: deliver on …" (ZAW3217).

Error code	Error message (English)
E2007	A "parcel number" and a "parcel total" must be provided for the delivery instruction "Deliver when all items have arrived" (ZAW3218).
E2008	A "deposit point" must be provided for the delivery instruction "Deposit consignments" (ZAW3219).
E2009	No franking licence was indicated.
E2010	This account is not authorized to purchase addresses for the franking licence ({0}).
E2011	The consignment number provided is outside the area of validity (1–{0}).
E2012	The desired picture format ({1}) is not offered. Please select a valid picture format ({1}).
E2013	The desired resolution ({0} dpi) is not offered. Please select a valid picture format ({1}).
E2014	VinoLog deliveries are not possible for the desired recipient postcode ({0}).
E2015	VinoLog deliveries in combination wtih evening delivery (ZAW3229) are not possible for the desired recipient postcode ({0}).
E2016	The consignment number provided is not unique.
E2017	A valid sender address must be stated.
E2018	The indicated sender logo format ({0}) is not permitted.
E2019	The sender logo exceeds the maximum size of {0} KB.
E2020	The COD amount is outside the valid range.
E2021	Two COD amounts were indicated. Please indicate the amount for COD items (N) in the "ATT_Amount" field and in the "REC_DATA" field for electronic COD items (BLN).
E2024	The sender logo could not be scanned. Please check that it conforms to a valid picture format ({0}).
E2025	A P.O. box address must be specified.
E2026	The franking licence used ({0}) is not authorized for the basic service ({1}) of the service group ({2}).
E2027	The franking licence used ({0}) is not the correct length.
E2028	{0} is not a valid ISO country code.
E2029	Additional service {0} is not permitted for mailings to {1} or only in combination with another additional service.
E2030	Basic service {0} does not belong to an international service group.
E2031	Basic service {0} does not belong to a domestic service group.
E2032	For domestic mailings the addressee's postcode must be specified.
E2033	For domestic mailings the addressee's postcode must consist of digits only.
E2034	For domestic mailings the addressee's postcode must not exceed the maximum length of {0} characters.
E2035	This franking licence ({0}) is not a customer franking licence and a valid consignment barcode must therefore be specified.
E2036	The weight should be express as a maximum of 5 digits and should not amount to more than {0} grams (e.g.29500).
E2037	The weight must be a value great than 0.

Error code	Error message (English)
E2038	The UN number must be exactly 4 digits (e.g. 1234).
E2039	The LQ additional service is only available from Version 2.1 onwards.
E2040	The notification service {0} cannot be combined with the basic service {1}.
E2041	The e-mail address ({0}) must correspond to the following pattern {1}.
E2042	The telephone number ({0}) must be between 10 and 20 digits long and must begin with {1}, {2} or {3}. Numbers and spaces are permitted; hyphens (-) or forward slashes (/) or other special characters (|, \, ^, etc.) are not permitted.
E2043	For the {0} notification the delivery instruction {1} is required.
E2044	For the {0} delivery instruction the notification {1} is required.
E2045	The following characters only are permitted in the Item ID: A to Z (and a to z), numbers 0 to 9, underscore "_", hyphen "-", plus sign "+".
E2047	The communication type (e-mail or SMS) does not match the telephone number or e-mail address given.
E2049	For COD items (BLN), a valid ISR customer number (NN_ESR_KNDNR) must be set.
E2050	For COD items (BLN), a valid IBAN number (NN_IBAN) must be set.
E2051	For COD items (BLN) with IBAN, a valid name for the end beneficiary (NN_END_NAME_VORNAME) must be set.
E2052	For COD items (BLN) with IBAN, a valid additional description for the end beneficiary (NN_END_ZUSATZ_NAME) must be set.
E2053	For COD items (BLN) with IBAN, a valid street (NN_END_STRASSE) must be set.
E2054	For COD items (BLN) with IBAN, a valid postcode (NN_END_PLZ) must be set.
E2055	For COD items (BLN) with IBAN, a valid city (NN_END_ORT) must be set.
E2056	For COD items (BLN) with IBAN or ISR account number (NN_ESR_KNDNR), a valid sender contact e-mail address (NN_CUS_EMAIL) must be specified.
E2057	For COD items (BLN) with IBAN or ISR account number (NN_ESR_KNDNR), a valid sender contact phone number (NN_CUS_PHONE or NN_CUS_MOBILE) must be specified.
E2058	For COD items (BLN), a combination of ISR and IBAN fields is not permitted.
E2059	The basic service {0} can only be used in conjunction with the value-added service {1}.
E2060	The notification service {0} can only be used together with the value-added service {1}.
E2061	The recipient address could not be determined – check for evening delivery not possible.
E2062	Evening delivery for this address not part of the offer.
E2063	The checking of the evening delivery cannot be carried out at the moment. Please contact Support.
E2064	At least two LabelLines are required. LabelLines that are blank or only contain empty spaces are not permitted.
E2065	The checking of the evening delivery cannot be carried out at the moment. Please contact Support.
E9991	The output format for single barcodes is currently not supported.
E9992	No valid web service call!
E9993	The Zubofi system is currently not available. Please try again later.

Error code	Error message (English)
E9994	The Kurepo system is currently not available. Please try again later.
E9995	The output format ({1}) is currently not supported in resolution ({0} dpi).
E9996	Too many addressees were requested. A maximum of {3} addressees per request can be generated with the resolution ({0} dpi), output format ({1}) and addressee format ({2}).
E9997	The web service barcode was unable to generate a unique consignment number. If the problem reoccurs, please contact the Support team.
E9998	User {0} is not authorized for this service.
E9999	The service is not available at the moment.

8.11.2 Warnings

Every warning consists of a four-digit warning code prefixed by "W" (W1234), beginning at W1000, plus an associated warning text. The web service returns the warning texts in the specified language (German, French, Italian or English). An operation may return more than one warning at a time.

If a warning is returned, the requested service is executed, taking the warning into account. Warnings help to optimize your use of the "Barcode" web service.

The curly brackets are placeholders and are replaced by the relevant values in the actual warning.

Warning code	Warning (English)
W2003	You have indicated a COD amount without requesting the additional service "COD" (BLN).
W2004	You have indicated an ISR reference number without requesting the additional service "Electronic COD" (BLN).
W2005	You have indicated a telephone number without requesting the delivery instruction "Notify delivery by telephone" (ZAW3213).
W2006	You have indicated a delivery date without requesting the delivery instruction "Specific delivery date: delivery on …" (ZAW3217).
W2007	You have indicated a parcel number and/or a parcel total without requesting the delivery instruction "Deliver when all consignments have arrived" (ZAW3218).
W2008	You have indicated a deposit point without requesting the delivery instruction "Deposit consignments" (ZAW3219).
W2009	A text cannot be generated with the requested presentation type ({0}); the display will be suppressed. To display a text, please select a larger presentation type.
W2010	Generation of the addressee will require too much time with the requested presentation type ({0}) and resolution ({1}).
W2011	PP franking is ignored for the basic service {0}.
W2012	For in-house Swiss Post applications the weight field is optional. The weight field has not been filled in correctly (max. {0} grams, greater than or the same as 0) and has therefore not been returned.
W2013	Free text 2 cannot be used with SMS notifications. Free text 2 has been ignored.
W2014	Free text is not required in the notification {0}. Free text 1 and 2 have been ignored.

Warning code	Warning (English)
W2015	No delivery information can be found for these address details. Please ensure that your address details are correct and complete.
W2016	For the chosen presentation type the recipient is restricted to {0} lines. The title will be ignored. To display the title, please select a larger presentation type.
W2017	For the chosen presentation type the recipient is restricted to {0} lines. The AddressSuffix will be ignored. To display the AddressSuffix, please select a larger presentation type.
W2018	For an A6 label with 2 ZAWs, the sender's address is truncated to 20 characters per line in ZPL2 format.
W2019	For the chosen presentation type the recipient is restricted to {0} lines. Name3 will be ignored. To display Name3, please select a larger presentation type.
W2020	For the chosen presentation type the recipient is restricted to {0} lines. Free text will be ignored. To display the free text, please select a larger presentation type.
W2021	For the chosen presentation type, the recipient is restricted to {0} lines. Excessive LabelLines will be ignored. To display all LabelLines, please select a larger presentation type.
W2022	The specified weight will not be printed on the label as this information is not relevant to the selected service group.
W9997	The Consignment code field may be filled in using Swiss Post applications only.

9 Registration

A client of the Swiss Post e-commerce API must be registered at Swiss Post.

No online registration feature supports the registration process at the moment.

9.1 Artifacts

Artifact	Remark
Client Identifier (Secret-ID) Client Secret (Token-ID)	These credentials have to be communicated when ordering an access token.

9.2 Required information

Attribute	Remark	Related API
Domain name	The domain name of the web shop	Login Post Connector / Alternative Delivery Addresses
i18n client text	A text for the web shop to be displayed in the consent screen	Login Post Connector / Alternative Delivery Addresses
Icon	An icon for the web shop to be displayed in the consent screen	Login Post Connector / Alternative Delivery Addresses
redirect_uri	Used for returning the data when consuming both authorization and token endpoints. Domain name of the URI is expected to be the one specified above.	Login Post Connector / Alternative Delivery Addresses
scopes	The scopes configured for a client. Every scope gives access to an endpoint or to a set of personal attributes (OpenID). The end user may have to give his consent during the OAuth authorization flows.	all

10 CORS

Cross Origin Resource Sharing is a relaxing technique for the **cross origin policy.** This policy is imposed by web browsers in order to minimize cross origin problems. It does not concern requests initiated on the server side.

Any client who wants to consume an endpoint of the Swiss Post e-commerce API from the client-side (for example with Javascript) will face the cross origin policy because the domains where the client and the Swiss Post e-commerce API are running are different.

The domain of the client must be registered in the CORS configuration of the API proxy server. This step is part of the registration process.

11 Versioning

Every endpoint of the Swiss Post e-commerce API has a version ww.xx.yy.zz. This version is composed of a major and a minor release number. Some other number may signify hotfixes or internal builds. The major release number is part of the URL of an endpoint. The major release number is updated when backward compatibility with previous versions of the endpoint is broken. The minor release number is updated when a new method or new fields are added to the API of an endpoint which do not break the backward compatibility. The updates of other numbers are supposed to keep the backward compatibility.

Several versions of an endpoint will be deployed in parallel in order to support the latency of the clients regarding the update of their integration of the Swiss Post e-commerce API.

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