

# Smartpost API

Version	Description of Change	Author	Date
0.1	Draft	Priit Joa	28-12-2022
0.2	Draft 2	Priit Joa	03-01-2023
1.0	Confirmed version	Kaja Olek	18-01-2023
1.1	Updated, Order and Label	Priit Joa	20-01-2023
1.2	Updated Order comments and Added examples	Priit Joa	24-01-2023
1.3	Return block changed "customer_return_days", "return_info" Removed Type from body "<?xml version="1.0" encoding="utf-8"?>"	Priit Joa	08-02-2023
1.4	Get Places returns for FI the place ID for sync. Removed "item/additionalservices /labelprinted" as not a function	Priit Joa	13-03-2023
1.5	"item/additionalservices /labelprinted" added as function as a flag is the label printed Place response contains fields group_id, group_name, group_sort, created_date, updated_date	Priit Joa	30-03-2023

<b>Endpoints</b>	<b>2</b>
<b>Authentication</b>	<b>2</b>
<b>API Requests</b>	<b>2</b>
<b>1 Places</b>	<b>2</b>
Input parameters	2
Response	3
Response example	4
<b>2 Courier visit times</b>	<b>4</b>
Input parameters	4
Response	5
Response example	5
<b>3 Orders</b>	<b>5</b>
Input parameters	6
Request example	11
Response	13
Example response	13
<b>4 Labels</b>	<b>14</b>
Input parameters	14

Response	15
<b>5 Tracking</b>	<b>15</b>
Input parameters	15
Response	15
<b>6 COD Payment</b>	<b>16</b>
Input parameters	16
Response	17
Response example	17
<b>Error Codes</b>	<b>17</b>

## Endpoints

Environment	Endpoint
Production	<a href="https://gateway.posti.fi/smartpost/">https://gateway.posti.fi/smartpost/</a>

## Authentication

The Business postpaid customer needs to log in to Self-Service as the owner. Then the API Key can be requested from the Self-Service environment under Settings.

There can be up to two API Keys (old and new) available at the same time when generating a new one and closing an old one.

## API Requests

### 1 Places

#### GET /api/ext/v1/places?

**Parameters:** country={country}&type={type}&filter={filter}

**Headers:** Content-Type: application/json / application/xml

Authorization: example-uuid-api-key-123xyz

#### Examples:

<https://gateway.posti.fi/smartpost/api/ext/v1/places?count=ry=EE> Returns all EE places

<https://gateway.posti.fi/smartpost/api/ext/v1/places?count=ry=EE&type=apt> Returns all EE blue boxes

<https://gateway.posti.fi/smartpost/api/ext/v1/places?country=EE&type=ipb> Returns all EE white boxes

<https://gateway.posti.fi/smartpost/api/ext/v1/places?country=EE&type=pudo> Returns all EE parcel points

<https://gateway.posti.fi/smartpost/api/ext/v1/places?country=FI> Returns all FI places

<https://gateway.posti.fi/smartpost/api/ext/v1/places?country=FI&type=apt> Returns all FI boxes

<https://gateway.posti.fi/smartpost/api/ext/v1/places?country=FI&type=po> Returns all FI post offices

## Input parameters

Parameter name	Description	Possible value	Required
country	Country Code	EE, FI, LV, LT	Yes
type	Destination Type: APT - Blue Box IPB - White Box PO - Post office Pudo - Parcel point If no type given, all those types are returned	apt, ipb, po, pudo	
filter	Additional filtering: Express = parcel terminals in Estonia with Express delivery option	express	

## Response

Field name	Description	Data type
item/place_id	Parcel terminal ID for EE, LV, LT. For FI - shows place unique ID	String
item/name	Destination name	String
item/city	Destination city	String
item/address	Destination address	String

item/country	Destination country code	String
item/postalcode	Destination postal code (zip code)	String
item/routingcode	Destination routing code	String
item/availability	Time frame when location is open	String
item/description	A short description of the location	String
item/type	Place type	String
item/lat	Latitude	Number
item/lng	Longitude	Number
item/group_id	Region ID	Number
item/group_name	Region Name	String
item/group_sort	Region Sorting	Number
item/created_date	Place created DateTime	Date Time
item/updated_date	Place updated DateTime	Date Time

## Response example

```
{
  "places": {
    "item": [
      {
        "place_id": "01007220",
        "name": "Tallinna Lasnamäe Maksimarket",
        "city": "Tallinn",
        "address": "J.Smuuli tee 43",
        "country": "EE",
        "postalcode": "11415",-
        "routingcode": "3203",
        "availability": "E-P 8:00-22:00",
        "description": "vasakpoolse sissepääsu juures",
        "type": "apt",
        "lat": "59.4280",
        "lng": "24.8385"
        "group_id": 1,
        "group_name": "Harjumaa",
        "group_sort": 998,
        "created_date": "2019-09-06 13:49:04",
        "updated_date": "2023-03-30 08:15:23"
      }
    ]
  }
}
```

## 2 Courier visit times

**GET /api/ext/v1/courier-visit-times?**

**Parameters:** place\_id={place\_id}

**Headers:** Content-Type: application/json / application/xml

Authorization: example-uuid-api-key-123xyz

## Input parameters

Parameter name	Description	Possible value	Required
place_id	Parcel terminal ID		
type	Filter parcel terminals in Estonia with Express delivery option	express	

## Response

Field name	Description	Data type
item/place_id	Parcel terminal ID	String
item/day	Day number (1 = Monday)	Number
item/in	Time 24h format	Time
item/out	Time 24h format	Time
item/express_in	Time 24h format	Time
item/express_out	Time 24h format	Time

## Response example

```
{
  "visit_times": {
    "item": [
      {
        "place_id": "01007174",
        "day": 1,
        "in": "12:00",
        "out": "18:00",
        "express_in": "",
        "express_out": ""
      }
    ]
  }
}
```

### 3 Orders

#### POST /api/ext/v1/orders

**Body:** Raw XML / Raw JSON

**Headers:** Content-Type: application/json / application/xml

Authorization: example-uuid-api-key-123xyz

NB!

Orders can be created only EE to EE and EE to FI. Creating orders for Latvia and Lithuania through API is not available right now.

The API request and response content type is defined on the Header by Content-Type value. The request and responses are always the same.

#### Input parameters

Parameter name	Description	Possible value	Required
item/barcode	Shipments barcode If the sender wants to add these, the format must be set up in advance to pass the validation process! Please turn to the Itella salesperson first.	String	
item/reference	Customer's reference number (showing on the label)	String	
item/content	Shipment content (showing on the label)	String	
item/multiply	Creates so many parcels with the same data as given here. Enables printing out labels with the same order info with different barcodes (parcel is too big for APT locker and is divided into several orders). The inserted number shows how many suborders are created.  If the parameter 'barcode' is filled then this field can't be used.	Number	

	Possible values 1-20 if left empty then the default value is 1		
item/weight	Weight of the shipment, decimal in kg	Number	
item/size	<p>Possible values: XS, S, M, L, XL</p> <p>Values to be translated (will be deprecated):  11 → XS,  5 → S,  6 → M,  7 → L,  8 → XL,  1 → 5,  2 → 6,  3 → 7,  4 → 8,</p>	String	Yes, if the parcel will be sent via APT using sender pin code
item/source/country	Country from where the parcel is sent, possible values ee, lv, lt	String	Yes
	<p>The <i>item/sender</i> fields are needed only if the sender door code is required for the parcel sending</p> <p>If the <i>item/sender</i> fields are not needed do not send in parameters.</p>		
item/sender/name	Sender's name	String	Yes, if the sender section is used
item/sender/phone	Sender's phone number	String	Yes, if the sender section is used
item/sender/email	Sender's e-mail address	String	
item/sender/cash	Amount of money the sender must pay before sending the parcel	Decimal	
item/recipient/name	Recipient's name	String	Yes
item/recipient/phone	Recipient's phone number	String	Yes
item/recipient/email	Recipients e-mail address	String	



item/recipient/goods	Amount of money for goods (this is COD amount that will be transferred to the parcel Sender) Goods, transport - only one of these values can be filled	Decimal	
item/recipient/transport	Amount of money for transport (this is Itella net sales and will not be transferred to parcel sender) Goods, transport - only one of these values can be filled	Decimal	
item/recipient/idcode	ID code of the recipient; needed if ID validation is required.	String	
	<p>For the item/destination block. You can send parcels using 3 different configurations:</p> <p>When sending a parcel to the parcel terminal, fill "place_id" as Parcel terminal ID.</p> <p>When sending a parcel to an address, fill "place_id" = 1</p> <p>When sending a parcel to the post office, fill "PostalCode", "RoutingCode", and "Country or place_id" as Parcel terminal ID.</p> <p>When sending a parcel using a courier service, fill "Street", "House", "Apartment", "City", and "Country"</p> <p>When the whole address is sent in "Street" field then the house number and/or apartment number are separated into specific fields "House" and "Apartment" if those are empty. When "House" and/or "Apartment" fields are not empty then the value of those fields will be added to the database, regardless of the value on "Street" field.</p>		
item/destination/place_id	Parcel terminal ID.  If the value is added > 1 then address values (postalcode, routingcode, street, house, apartment, city, country) can't be filled  For country FI place_id does not exist, don't use it	String	
item/destination/postalcode	Destination postal code	String	if place_id is 1 or empty then required.

item/destination/routingcode	<p>Destination routing code</p> <p>The routingcode can only be filled if country is 'fi' then the values postalcode, routingcode, country are required and place_id has to be empty.</p>	String	if place_id is empty then required
item/destination/street	Destination street	String	if place_id is 1 then required
item/destination/house	Destination house number	String	
item/destination/apartment	Destination apartment	String	
item/destination/city	Destination city	String	if place_id is 1 then required
item/destination/country	Destination country	String	Yes, if place_id is NOT > 1
item/destination/details	Extra details about the destination (e.g. third floor)	String	
item/destination/timewindow	<p>When will the recipient be available for a courier to pick up:</p> <p>1 = Any time  2 = 09:00 – 17:00  3 = 17:00 – 21:00  Default:1</p>	Number	if place_id is 1 then required
item/customer_return_days	<p>Value how many days the customer is able to return order. If customer return is not allowed, insert 0. Possible values: 0-90</p>	Number	
	The item/return/ fields is not available fully on this version. If the item/return/ fields are not needed don't send the empty block		
item/return/place_id	<p>Parcel terminal ID.  If return to address instead of parcel terminal, then insert 1.</p> <p>If the value is added &gt; 1 then address values (postalcode, routingcode, street, house, apartment, city, country) can't be filled</p> <p>For country FI place_id does not exist, don't use it</p>	String	

item/return/postalcode	Postal code	String	if place_id is 1 on empty then required.
item/return/routingcode	Routing code	String	if place_id is empty then required
item/return/street	Street	String	if place_id is 1 then required
item/return/house	House Number	String	
item/return/apartment	Apartment	String	
item/return/city	City	String	if place_id is 1 then required
item/return/country	Country	String	Required
item/return/return_hour_from	Hour from when return values 0 - 23	Number	required if return_hour_until is filled
item/return/return_hour_until	Hour to when return values 0 - 23	Number	required if return_hour_from is filled
item/return/return_weekdays/day	Example [1,2], possible values 1 to 7	Number	
item/return/return_info	Extra Return info for courier	String	
item/return/name	Return name	String	
item/return/phone	Return Phone number	String	
item/return/email	Return email	String	
item/additionalservices/express	Express service smartexpress additional service must be activated can be used only if destination_place.is_express is allowed	Boolean	
item/additionalservices/idcheck	Recipient identity check recipient_id_check additional service must be activated "IdCode" in recipient data must be filled	Boolean	
item/additionalservices/agecheck	Recipient age check recipient_age_check additional service must be activated	Boolean	

item/additionalservices/notif yemail	<p>Delivery notification (sent to sender) e-mail Address</p> <p>NotifyEmail == recipient.email then raise exception (If NotifyEmail is same as recipient.email raise exception) sender_email_notification additional service must be activated</p>	String	
item/additionalservices/notif yphone	<p>Delivery notification (sent to sender) phone (gsm) number</p> <p>NotifyPhone == recipient.phone then raise exception (If NotifyPhone is same as recipient.phone raise exception) sender_sms_notification additional service must be activated</p>	String	
item/additionalservices/label printed	<p>If labelprinted=true, the status will be ready for sending. Order is displayed under Shipments. If labelprinted=false (by default), the status will be awaiting label. Order is displayed under New Shipment.</p>	String	

## Request example

```

<orders>
  <report>
    <email>name@gamil.com</email>
    <email>name2@gamil.com</email>
  </report>
  <item>
    <barcode></barcode>
    <reference></reference>
    <content></content>
    <multiply></multiply>
    <weight></weight>
    <size></size>
    <source>

```

```
<country>EE</country>
</source>
<sender>
  <name></name>
  <phone></phone>
  <email></email>
  <cash></cash>
  <account></account>
</sender>
<recipient>
  <name></name>
  <phone></phone>
  <email></email>
  <goods></goods>
  <transport></transport>
  <idcode></idcode>
</recipient>
<destination>
  <place_id></place_id>
  <postalcode></postalcode>
  <routingcode></routingcode>
  <street></street>
  <house></house>
  <apartment></apartment>
  <city></city>
  <country></country>
  <details></details>
  <timewindow></timewindow>
</destination>
<customer_return_days></customer_return_days>
<!--<return>
  <place_id></place_id>
  <postalcode></postalcode>
  <routingcode></routingcode>
  <street></street>
  <house></house>
  <apartment></apartment>
  <city></city>
  <country></country>
  <timeframefrom></timeframefrom>
  <return_hour_until></return_hour_until>
  <return_weekdays>
```

```

    <day>1</day>
    <day>2</day>
  </return_weekdays>
  <return_info></return_info>
  <name></name>
  <phone></phone>
  <email></email>
</return -->
<additionalservices>
  <express></express>
  <idcheck></idcheck>
  <agecheck></agecheck>
  <notifyemail></notifyemail>
  <notifyphone></notifyphone>
  <paidbyrecipient></paidbyrecipient>
  <labelprinted></labelprinted>
</additionalservices>
</item>
</orders>

```

## Response

Field name	Description	Data type
item/barcode	Shipments barcode	String
item/reference	Customer's reference number	String
item/sender/doorcode	Sender door code	String

## Example response

```

{
  "orders": {
    "item": [
      {
        "barcode": "TESTPP00364300487133986485",
        "reference": "1234"
      }
    ]
  }
}

```

```
}  
}
```

## SUCCESS RESPONSE

If the request is successfully processed, you will be returned the items bar code, reference number associated and sender door code (if sending with door code service is activated). In order to receive the door code, the sender data needs to be supplied.

Response status code: 200

## ERROR RESPONSE

Failing to fill the mandatory fields (or filling some fields with the wrong type of data) will result in an error. If the problematic shipment is part of a larger batch, none of the shipments are processed. Returned XML will contain info about the errors.

Response status code: 400

## 4 Labels

### GET /api/ext/v1/labels?

**Parameters:** barcode={barcode}&format={format}

**Headers:** Content-Type: application/json / application/xml

Authorization: example-uuid-api-key-123xyz

**NB! API allows adding up to 100 barcodes at one request. The parameter “barcode” can be added multiple times.**

### Request example to get multiple labels printed at once

```
/api/ext/v1/labels?format=A4/4&barcode=0364300487133897898&barcode=0364300487133977740&barcode=0364300487133984100&barcode=0364300487133932570
```

## Input parameters

Parameter name	Description	Possible value	Required
barcode	Shipments barcode		Yes
format	Label size options	'A4/4', 'A4-4', 'A4-8', 'A4/8', 'A5', 'A6', 'A7',	

		If not filled the default value is 'A5'	
--	--	---	--

## Response

PDF file URL to get a Label

## 5 Tracking

### GET /api/ext/v1/tracking?

**Parameters:** barcode={barcode}&reference={reference}

**Headers:** Content-Type: application/json / application/xml

Authorization: example-uuid-api-key-123xyz

### Input parameters

Parameter name	Description	Possible value	Required
barcode	Shipments barcode (can be added multiple times to get multiple barcodes)	String	One is required, barcode OR reference
reference	Shipment references (can be added multiple times to get various reference)	String	One is required, barcode OR reference

## Response

Field name	Description	Data type
item/barcode	Barcode	String
item/reference	Customer's reference number	String
item/generated	Timestamp	Timestamp
item/doorsize	Door Size (will be deprecated)	Number



item/size	Parcel size (XS,S,M,L,XL,XXL)	String
item/sourcein	Timestamp when parcel is inserted to the parcel terminal	Timestamp
item/sourceout	Timestamp when parcel is taken out from the parcel terminal	Timestamp
item/termin	Timestamp when parcel has been registered in sorting terminal	Timestamp
item/termout	Timestamp when parcel has been sorted in sorting terminal and is ready to be delivered to destination	Timestamp
item/destinationin	Timestamp when parcel has been delivered to destination parcel terminal	Timestamp
item/destinationout	Timestamp when parcel is taken out from destination parcel terminal or delivered to destination	Timestamp
item/returnin	Timestamp when parcel is inserted to the parcel terminal for return	Timestamp
item/returnout	Timestamp when return parcel is taken out from the parcel terminal	Timestamp
item/returntermin	Timestamp when returning parcel has been registered in sorting terminal	Timestamp
item/returntermout	Timestamp when return parcel has been sorted in sorting terminal and is ready to be sent to sender	Timestamp

## 6 COD Payment

### GET /api/ext/v1/cod-payments?

**Parameters:** bank\_transaction\_date={date\_time}&get\_one\_day={getoneday}

**Headers:** Content-Type: application/json / application/xml

Authorization: example-uuid-api-key-123xyz

COD Payment is available if COD service in use.

## Input parameters

Parameter name	Description	Possible value	Required
bank_transackton_date	Date time as String	2021-12-14%2000:00:00	Yes
get_one_day	1 - Only Day requested, 0 - From Day requested to Today Default 0	0	

## Response

Field name	Description	Data type
item/amount	Payment amount	Decimal
item/barcode	Shipments barcode	String
item/name	Recipient Name	String
item/payment_date	Paid at date	Date Time
item/ref	Reference Number	String
item/t_cbanktrans	Payment Transfer Date	Date Time

## Response example

```
{
  "payments": {
    "item": [
      {
        "barcode": "TESTPP00364300487133828117",
        "name": "Prit",
        "ref": "0001301232161583",
        "amount": "0.10",
        "payment_date": "2023-01-23 13:33:49.000000",
        "t_cbanktrans": "2023-01-24 13:33:49.000000"
      }
    ]
  }
}
```

## Error Codes

000 = destination info missing, 001 = required input missing, 002 = barcode already exists, 003 = not a phone number, 004 = not an e-mail address, 005 = not numeric, 006 = unknown destination (place\_id), 007 = express checked but destination is not an express APT, 008 = multiple destinations set, 009 = courier service timeframe missing, 010 = courier service city missing, 011 = courier service postal code missing, 012 = courier address missing, 013 = COD used but service not available, 014 = Invalid door size, 015 = String too long (LQ items), 016 = Integer out of bounds (LQ items), 017 = Value not in enum list (LQ items), 018 = Sending with door code service not activated, 019 = FI destination incorrect, 020 = Extra service = notify by sms is not activated, 021 = Extra service = notify by email is not activated, 022 = Extra service = express is not activated, 023 = Extra service = Age check is not activated, 024 = Extra service = ID-card check is not activated, 025 = Extra service = idcode is missing (orders->item->recipient->idcode), but idcheck is checked, 026 = Extra service = idcheck is missing, but idcode is filled, 027 = Extra service = ID-card and age check cannot be used at the same time, 028 = Extra service = idcode length cannot be more than 11 characters, 029 = Please check delivery notification additional service (notify sms cannot be same as phone), 030 = Please check delivery notification additional service (notify email cannot be same as email), 031 = Barcode not valid, 032 = Only domestic parcels can have barcode given, 033 = Invalid label format, 034 = No additional services allowed, 035 = recipient and sender cannot both pay, 036 = Cannot create parcel from posted data, 037 = API account not found, 039 = Given account is not allowed to create shipment, 040 = Cannot have goods and transport both set, use one of them, 041 = Invalid input given, 042 = Maximum value is %s,

043 = Minimum difference between %s is %s,