

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 |

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Endpoints

| Environment | Endpoint |
|-------------|---|
| Production | https://gateway.posti.fi/smartpost/ |

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

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):</p> <p>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 item/sender fields are needed only if the sender door code is required for the parcel sending</p> <p>If the item/sender 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</p> <p>2 = 09:00 – 17:00</p> <p>3 = 17:00 – 21:00</p> <p>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.</p> <p>If customer return is not allowed, insert 0. Possible values: 0-90</p> | Number | |
| | <p>The item/return/ fields is not available fully on this version.</p> <p>If the item/return/ fields are not needed don't send the empty block</p> | | |
| item/return/place_id | <p>Parcel terminal ID.</p> <p>If return to address instead of parcel terminal, then insert 1.</p> <p>If the value is added > 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/notifyemail | <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/notifyphone | <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/labelprinted | <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.

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": "Priit",
        "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,