OPERATING INSTRUCTIONS FOR POSTI LOCATION
SERVICE REST INTERFACE
1. **General**
Posti Location Service is a component which provides a clean REST API to Posti location data. It is based on simple one endpoint REST API which only supports GET method. Posti Location Service contains all Posti pickup points in Finland and Baltics.

If you are using Location API for your web shop, you may search the location data with the chosen number of nearest pick-up points according to zip code, city, municipality or geocoordinates. Then you may show the response data as a text or on a map. If you show map based pickup point selection, use geocoordinates as a query and show different pick-up point types separately. Distance query can be used with together with lat/lng coordinates.

When the query is done with the zip code, offered nearest pick-up-point list is given according to zip code’s weighted population center. It is not possible to make queries according to street addresses.

Make sure that you offer enough options to choose the right pick-up point in your webshop. Consider making available the search which differs from recipients delivery/billing address’ zip code too.

API V1 response limitation is 2000 locations and in V2 max. 5000 locations.

**Supported content type:** application/json

**Authentication:** is not required at the moment.

**Endpoint:** [https://locationservice.posti.com/location](https://locationservice.posti.com/location)

2. **Query parameters**
Supported query parameters:

<table>
<thead>
<tr>
<th>Query parameter</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>types (optional)</td>
<td>supported location types are POSTOFFICE, LETTERBOX, SMARTPOST, PICKUPPOINT, BUSINESSSERVICE, POBOX, LOCKER</td>
</tr>
<tr>
<td>lat</td>
<td>Latitude of center location that search is done for. Top or distance parameter is required.</td>
</tr>
<tr>
<td>lng</td>
<td>Longitude of center location that search is done for. Top or distance parameter is required.</td>
</tr>
<tr>
<td>top</td>
<td>amount of locations to return. API returns this amount of closest locations.</td>
</tr>
<tr>
<td>distance</td>
<td>Filter which allows user to limit distance of returned locations. Parameter is used together with lat/lng</td>
</tr>
<tr>
<td>topLeftLat</td>
<td>Limits results to geographical bounding box.</td>
</tr>
</tbody>
</table>
### Filter results based on zipcode

**locationZipCode**
Find the closest pickup points using zipcode.

**strictZipCode**
This is used together with zipCode parameter. If this is set true only results that exactly match to the location zipcode are shown. If strictZipCode is false, postal code area list is used to match location to queried zipcode. Default value is false.

**countryCode**
Limits results to given county. Default value is FI (Finland)

**city**
Filter results based on city. Matches to any language version of the city.

**municipality**
Filter results based on municipality. Matches to any language version of the municipality.

**pupCode**
Filter results based on PupCode

### Response parameters
The response contains array of locations in JSON format:

<table>
<thead>
<tr>
<th>Location parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>Unique service location identifier</td>
</tr>
<tr>
<td>type</td>
<td>Location type (POSTOFFICE, LETTERBOX, SMARTPOST, PICKUPPOINT, BUSINESSSERVICE, POBOX, LOCKER)</td>
</tr>
</tbody>
</table>

NB. In-depth instructions on when and how to use different location types you’ll find on Posti’s website: materials for online retailers/materiaalit verkkokauppiaille. On the site you’ll find recommended texts, banners and logos.

For webshops the typical types to request are:

- parcel lockers = SMARTPOST, LOCKER
- postal pick up points = POSTOFFICE, PICKUPPOINT

Short explanations for different location types:
- **POSTOFFICE** = service point where you can get or send parcels and letters.
- **LETTERBOX** = means a metal container in the street or other public place in which you can put letters for them to be collected and sent to someone else (postbox, mailbox).
- **SMARTPOST** = SmartPost parcel lockers locates in public places and enables customers to receive and return online purchases and leave outgoing parcels.
- **LOCKER** = Like SMARTPOST, but it is only targeted to the residents or workers of the building where locker is situated. The publicName of points of these types tell that locker has limited access. Make sure that consumers can easily see on the selection chart, that these kind of pick up points have limited access.
- **PICKUPPOINT** = This is a “light version” of POSTOFFICE for picking up parcels or leave customer returns.
- **BUSINESSSERVICE** = This is a service point for business customers of Posti. Don’t show this type for webshop customers for picking up parcels.
- **POBOX** = P.O. box for use with those customers of Posti which have made contract of P.O. box. P.O. box is not allowed for receiving parcels.

One way to do requests is to leave type out and just filter out all those unneeded types from the result list, like LETTERBOX, POBOX and BUSINESSSERVICE in case you are looking for those pickup points that you offer for parcel pick up.

<table>
<thead>
<tr>
<th>postalCode</th>
<th>postal code</th>
</tr>
</thead>
<tbody>
<tr>
<td>postalCodeAreas</td>
<td>postal code area</td>
</tr>
<tr>
<td>address</td>
<td>Address object for each language (fi, sv, en) that includes street address, postal code, postal code name and municipality</td>
</tr>
<tr>
<td>publicName</td>
<td>Public name of the location in each language. This is the marketing name of pick-up-points. Show this name on your web shop checkout user interface.</td>
</tr>
<tr>
<td>locationName</td>
<td>Defines the location inside the address. E.g. Beside of the escalators.</td>
</tr>
<tr>
<td>labelName</td>
<td>Pickup point’s label name. This name is only used on parcel labels. Use publicName on web shop user interface.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>countryCode</td>
<td>Country of the location</td>
</tr>
<tr>
<td>dropOfTimeParcel</td>
<td>Drop of time for the parcels</td>
</tr>
<tr>
<td>dropOfTimeLetters</td>
<td>Drop of time for the letters</td>
</tr>
<tr>
<td>dropOfTimeExpress</td>
<td>Drop of time for the express letters</td>
</tr>
<tr>
<td>additionalInfo</td>
<td>Additional information like special opening times.</td>
</tr>
<tr>
<td>customerServicePhoneNumber</td>
<td>Customer service phone number</td>
</tr>
<tr>
<td>openingTimes</td>
<td>Array of opening times. Each element has weekday (1 = Monday, 7 = Sunday), time location opens (timeFrom) and time location closes (timeTo)</td>
</tr>
<tr>
<td>availability</td>
<td>Opening hours in string format e.g ma-pe 7.00 - 21.00, la 08.00 - 18.00</td>
</tr>
<tr>
<td>wheelchairAccess</td>
<td>true/false depending if location is accessibly by wheelchair</td>
</tr>
<tr>
<td>pupCode</td>
<td>Unique pick up point code in the country.</td>
</tr>
<tr>
<td>routingServiceCode</td>
<td>Routing service code for the location</td>
</tr>
<tr>
<td>partnerType</td>
<td>Partner type that can be: POSTI, AIBE, BOXNET, TOPO_CENTRAS.</td>
</tr>
</tbody>
</table>

4. **Sample queries**

Posti Location Service – Sample queries:

- Search by the postal code name [https://locationservice.posti.com/location?city=Sibbo](https://locationservice.posti.com/location?city=Sibbo)
- Search by the municipality [https://locationservice.posti.com/location?municipality=Sipoo](https://locationservice.posti.com/location?municipality=Sipoo)
- Search by the country code [https://locationservice.posti.com/location?countryCode=LT](https://locationservice.posti.com/location?countryCode=LT)
Search by bounding box and type
https://locationservice.posti.com/location?d=a&types=POSTOFFICE&types=PICKUPPOINT&types=SMARTPOST&types=BUSINESSSERVICE&topLeftLat=60.226850265683396&topLeftLng=24.861389789074657&bottomRightLat=60.118482801480674&bottomRightLng=25.00262781092524

Find the 5 closest automated parcel lockers by zipcode. 5 closest is showed on the basis of the center of population http://locationservice.posti.com/location?locationZipCode=00230&top=5&types=SMARTPOST

Find the 5 closest pickup points of anykind by zipcode in Latvia

Find all pickup points in Latvia http://locationservice.posti.com/location?location&countryCode=LV

5. API v2
API version 2 works in the same manner as the version 1. The only difference is the added parameter ‘capabilities’. All parameters used in version 1 can also be used with version 2.

Endpoint: https://locationservice.posti.com/api/2/location

<table>
<thead>
<tr>
<th>Query parameter</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>capabilities</td>
<td>Filter results based on the capabilities of the location. Currently supported capabilities are:</td>
</tr>
<tr>
<td></td>
<td>EXPRESS - Express delivery capability for BtoB parcel products</td>
</tr>
<tr>
<td></td>
<td>FASTTRACK - same day delivery for consumer parcel products</td>
</tr>
<tr>
<td></td>
<td>FASTTRACK capability areas are:</td>
</tr>
<tr>
<td></td>
<td>FT_UUSIMAA contains postal code area 00-14</td>
</tr>
<tr>
<td></td>
<td>FT_PK_SEUTU contains postal code area 00-02 meaning the capital area of Helsinki, Espoo, Kauniainen, Vantaa</td>
</tr>
<tr>
<td></td>
<td>FT_TURKU contains postal code area 20-21</td>
</tr>
<tr>
<td></td>
<td>FT_TKU_SEUTU contains postal code area 20-25</td>
</tr>
<tr>
<td></td>
<td>See separate service description of the same day delivery service. FASTTRACK may be used as query parameter itself too. Response parameter is the same as in FT_UUSIMAA.</td>
</tr>
<tr>
<td></td>
<td>SATURDAY_DELIVERY Delivery is possible on Saturdays</td>
</tr>
<tr>
<td></td>
<td>LQ Limited quantity of dangerous goods allowed to send to the parcel lockers valued as LQ</td>
</tr>
<tr>
<td><strong>Response parameter</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>-----------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>capabilities</td>
<td>A list of capabilities</td>
</tr>
</tbody>
</table>

### 5.1. Sample queries for v2

Find the 5 closest SMARTPOST parcel lockers with EXPRESS capability by zipcode

https://locationservice.posti.com/api/2/location?locationZipCode=00100&top=5&types=SMARTPOST&capabilities=EXPRESS

Find the 5 closest Express capability locations (any type) by zipcode

https://locationservice.posti.com/api/2/location?locationZipCode=00100&top=5&capabilities=EXPRESS

Find 5 closest SMARTPOST parcel lockers with FASTTRACK capability by zipcode

https://locationservice.posti.com/api/2/location?locationZipCode=00230&top=5&types=SMARTPOST&capabilities=FASTTRACK

Find Saturday delivery locations

https://locationservice.posti.com/api/2/location?capabilities=SATURDAY_DELIVERY

Find Fast Track locations at Turku region

https://locationservice.posti.com/api/2/location?capabilities=FT_PK_SEUTU

Find manned pick-up-points for Fast Track at Turku region

https://locationservice.posti.com/api/2/location?types=PICKUPPOINT,POSTOFFICE&capabilities=FT_TKU_SEUTU

Limited quantity of dangerous goods may be shipped to these parcel lockers

https://locationservice.posti.com/api/2/location?capabilities=LQ

The top 5 results containing Fast Track capability within a specific postal code in capital area containing parcel lockers

http://locationservice.posti.com/api/2/location?locationZipCode=00100&top=5&types=LOCKER,SMARTPOST&capabilities=FT_PK_SEUTU
Mapping Location Service API to Posti EDI and Posti address label

**LOCATION SERVICE API**

```json
{
  locations: [
    {
      id: "102452002",
      type: "SUAP\POST",
      postcode: "1034",
      postcodeAreas: null,
      address: {
        en: {
          streetName: "Milgrāvja iela",
          streetNumber: "6",
          postalCode: "1034",
          postalCodeName: "Riga",
        }
      },
      publicName: {
        en: "Omniva"
      },
      labelName: {
        en: "c/o Parcelshop 3202, Omniva"
      },
      countryCode: "LV",
      locationName: null,
      postalOfficeType: null,
      dropOfTimeParcel: null,
      dropOfTimeLetters: null,
      dropOfTimeExpress: null,
      additionalInfo: null,
      customerServicePhoneNumber: null,
      openingTimes: [],
      availability: null,
      wheelChairAccess: false,
      spokenCode: "102452002",
      routingServiceCode: "42202",
      partnerType: "OMNIVA, LATVIA",
      location: {
        lat: "57.025426",
        lon: "24.195695"
      },
      category: null,
      emptyTime: null,
      lastEmptyTime: null,
    }
  ]
}
```

**EDI MESSAGE TO POSTI**

- **Recipient name:** The recipient’s name
- **Recipient name 2:** c/o Parcelshop 3202, Omniva (labelName)
- **Recipient’s street address:** Milgrāvja iela 6 (streetName + streetNumber)
- **Recipient’s zip code:** 1034 (postalCode)
- **Recipient’s city/town:** Riga (postalCodeName)
- **Recipient’s country code:** LV (countryCode)

Product identifier: 2701
Additional services: 2302 (RoutingServiceCode)*

*RSC is mandatory control data which is indicated in the EDI message as an additional service. RSC is not presented in the address label.

**POSTI ADDRESS LABEL**

The information highlighted in red is obtained through the pickup Point Register integration.