

**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>

## 2. Query parameters

Supported query parameters:

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

bottomRightLat bottomRightLng	
zipCode	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

### 3. Response parameters

The response contains array of locations in JSON format:

Location parameter	Description
id	Unique service location identifier
type	<p>Location type (POSTOFFICE, LETTERBOX, SMARTPOST, PICKUPPOINT, BUSINESSSERVICE, POBOX, LOCKER)</p> <p>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.</p> <p>For webshops the typical types to request are:</p> <ul style="list-style-type: none"> <li>• parcel lockers = SMARTPOST, LOCKER</li> <li>• postal pick up points = POSTOFFICE, PICKUPPOINT</li> </ul> <p>Short explanations for different location types:</p>

	<ul style="list-style-type: none"> <li>• POSTOFFICE = service point where you can get or send parcels and letters.</li> <li>• 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).</li> <li>• SMARTPOST = SmartPost parcel lockers located in public places and enables customers to receive and return online purchases and leave outgoing parcels.</li> <li>• 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.</li> <li>• PICKUPPOINT = This is a “light version” of POSTOFFICE for picking up parcels or leave customer returns.</li> <li>• BUSINESSSERVICE = This is a service point for business customers of Posti. Don’t show this type for webshop customers for picking up parcels.</li> <li>• 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.</li> </ul> <p>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.</p>
postalCode	postal code
postalCodeAreas	postal code area
address	Address object for each language (fi, sv, en) that includes street address, postal code, postal code name and municipality
publicName	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.
locationName	Defines the location inside the address. E.g. Beside of the escalators.
labelName	Pickup point’s label name. This name is only used on parcel labels. Use publicName on web shop user interface.

countryCode	Country of the location
dropOfTimeParcel	Drop of time for the parcels
dropOfTimeLetters	Drop of time for the letters
dropOfTimeExpress	Drop of time for the express letters
additionalInfo	Additional information like special opening times.
customerServicePhoneNumber	Customer service phone number
openingTimes	Array of opening times. Each element has weekday (1 = Monday, 7 = Sunday), time location opens (timeFrom) and time location closes (timeTo)
availability	Opening hours in string format e.g ma-pe 7.00 - 21.00, la 08.00 - 18.00
wheelchairAccess	true/false depending if location is accessibly by wheelchair
pupCode	Unique pick up point code in the country.
routingServiceCode	Routing service code for the location
partnerType	Partner type that can be: POSTI, AIBE, BOXNET, TOPO_CENTRAS.

#### 4. Sample queries

Posti Location Service – Sample queries:

Search by the postal code name <https://locationservice.posti.com/location?city=Sibbo>

Search by the municipality <https://locationservice.posti.com/location?municipality=Sipoo>

Search by the zip code <https://locationservice.posti.com/location?zipCode=01200>

Search by the strict zip code <https://locationservice.posti.com/location?zipCode=00980&strictZipCode=true>

Search by the pupCode <https://locationservice.posti.com/location?pupCode=009803200>

Search by the country code <https://locationservice.posti.com/location?countryCode=LT>

Search by bounding box and type

<https://location-service.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://location-service.posti.com/location?locationZipCode=00230&top=5&types=SMARTPOST>

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

<http://location-service.posti.com/location?locationZipCode=1016&countryCode=LV&top=5>

Find all pickup points in Latvia <http://location-service.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://location-service.posti.com/api/2/location>

Query parameter	Descriptions
capabilities	<p>Filter results based on the capabilities of the location. Currently supported capabilities are:</p> <ul style="list-style-type: none"><li>EXPRESS - Express delivery capability for BtoB parcel products</li><li>FASTTRACK - same day delivery for consumer parcel products</li></ul> <p>FASTTRACK capability areas are:</p> <ul style="list-style-type: none"><li>FT_UUSIMAA contains postal code area 00-14</li><li>FT_PK_SEUTU contains postal code area 00-02 meaning the capital area of Helsinki, Espoo, Kauniainen, Vantaa</li><li>FT_TURKU contains postal code area 20-21</li><li>FT_TKU_SEUTU contains postal code area 20-25</li></ul> <p>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.</p> <p>SATURDAY_DELIVERY Delivery is possible on Saturdays</p> <p>LQ Limited quantity of dangerous goods allowed to send to the parcel lockers valued as LQ</p>

Response parameter	Description
capabilities	A list of capabilities

### 5.1. Sample queries for v2

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

<https://location-service.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://location-service.posti.com/api/2/location?locationZipCode=00100&top=5&capabilities=EXPRESS>

Find 5 closest SMARTPOST parcel lockers with FASTTRACK capability by zipcode

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

Find Saturday delivery locations

[https://location-service.posti.com/api/2/location?capabilities=SATURDAY\\_DELIVERY](https://location-service.posti.com/api/2/location?capabilities=SATURDAY_DELIVERY)

Find Fast Track locations at Turku region

[https://location-service.posti.com/api/2/location?capabilities=FT\\_PK\\_SEUTU](https://location-service.posti.com/api/2/location?capabilities=FT_PK_SEUTU)

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

[https://location-service.posti.com/api/2/location?types=PICKUPPOINT,POSTOFFICE&capabilities=FT\\_TKU\\_SEUTU](https://location-service.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://location-service.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://location-service.posti.com/api/2/location?locationZipCode=00100&top=5&types=LOCKER,SMARTPOST&capabilities=FT\\_PK\\_SEUTU](http://location-service.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	EDI MESSAGE TO POSTI	POSTI ADDRESS LABEL
<pre> { - locations: [ - { id: "10343202", type: "SMARTPOST", postalCode: "1034", postalCodeAreas: null, address: { - en: { streetName: "Milgravja iela", streetNumber: "6", postalCode: "1034", postalCodeName: "Riga", municipality: "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, pupCode: "10343202", routingServiceCode: "3202", partnerType: "OMNIVA_LATVIA", - location: { lat: "57.025436", lon: "24.1395075" }, category: null, emptyTime: null, lastEmptyTime: null, </pre>	<p>Recipient name 1: The recipient's name  Recipient name 2: c/o Parcelshop 3202, Omniva (labelName)  Recipient's street address: Milgravja iela 6 (streetName + streetNumber)  Recipient's zip code: 1034 (postalCode)  Recipient's city/town: Riga (postalCodeName)  Recipient's country code: LV (countryCode)</p> <p>Product identifier: 2701  Additional services: 3202 (RoutingServiceCode)*</p> <p>*RSC is mandatory control data which is indicated in the EDI message as an additional service. RSC is not presented in the address label.</p> <p>The information highlighted in red is obtained through the pickup Point Register integration.</p>	<div data-bbox="1090 696 1557 813"> <p><b>posti</b> Parcel Connect</p> <p>From: Posti Oy, Paketti- ja logistiikkapalvelut  Postintalval 7 A 3.krs a  FI-00230 HELSINKI  Finland</p> <p>Account Number:  Phone:</p> </div> <div data-bbox="1090 840 1557 1003"> <p>To: Rex Recipient  c/o Parcelshop 3202, Omniva  Milgravja iela 6  LV-1034 RIGA  Latvia</p> <p>Phone:</p> </div> <div data-bbox="1090 1048 1557 1205"> <p><b>NND</b></p> <p>Shipment No:  Date: 08.03.2017  Senders Ref:  Receivers ref:  Weight (kg): 3,00  Delivery instr:</p> <p>1 / 1 </p> </div> <div data-bbox="1090 1238 1557 1272"> <p>We are working exclusively on basis of our current GTB in force and CMR  Customer information:</p> </div> <div data-bbox="1125 1288 1535 1422">  </div> <div data-bbox="1257 1422 1407 1438"> <p>(2L)LT02189+70000000</p> </div> <div data-bbox="1136 1444 1528 1568">  </div>