

Verification Services Tarkistuspalvelu

API Documentation



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1. Introduction

With the help of Posti's APIs, you can easily integrate updated address and consumer customer information to your systems and services. The data source for all API services is Posti's address information system, which covers all mail addresses and mail recipients in Finland.

Verification Services are online based services for Posti's business customers to be used in e-commerce processes.

1.1. Address verification

With the service, you can control whether an address exists, how it is spelled and correct errors in the address. The service also gives you the personal identifier for Posti's address, i.e. the family address ID, which enables you to check the different language versions of the same address and synonymous addresses.

1.2. Verification of customer data

A consumer customer's information can be controlled and corrected in the service using the person's name and address. The service gives information on whether the person is underage, deceased and whether they live at the address in question according to the mail recipient register. If a customer's address or name is outdated, the service will provide the valid name and address information. The service will also give you the person's personal identifier (OTS-ID) and the address identifier (address family ID), which enable the identification of people who live in the same address and prevent the creation of duplicates.

1.3. Verification of payer information

With the service, it is possible to control whether a person's name, address and personal identity number match. The service can be used, for instance, to prevent fraud in a situation where someone tries to buy something using someone else's personal identity number. The service will return the death information for the identified person, if desired.

1.4. Customer register checks

The service works together with Posti's continuous update service. The service controls whether a person is already in your customer register. If the person can be found in your Posti update service customer register, the service will return the customer number or numbers. The service can be used, for instance, to prevent the creation of duplicates with several different customer numbers in the customer register.

1.5. General information

API can be accessed from URL: https://www.posti.fi/tarkistuspalvelu/api/v1/rest

Services are offered as a REST service with documented responses using JSON notation. Some services also have SOAP based web service.

Authentication is done using HTTP basic authentication and the data communication is secured using SSL.



2. Document Change History

This document describes current Verification Services API and the content is subject to change.

Date	Version	Description	
2014-09-17	1.3.1	Added information on municipality data and service specific fields to sections covering Address data structure.	
2017-01-23	1.3.3	Added API for Customer register check	
2017-03-07	1.3.4	Added API for Verification of customer data	
2018-01-08	1.3.5	Added MULTI_MATCH response to Address Verification service	
2019-03-20	1.4	Added API for Verification of payer information	



3. Common Data Structures

3.1. Address data structure

All addresses returned by the services share a common data structure part:

Field	Туре	Description
addressFamilyId	Integer	A common id for the same addresses that have a different appearance as a result of different languages and so-called corner apartments.
streetAddress	String	Street with premises or PO Box. For example Arkadiankatu 60 C 52
postCode	String	For example 00100
isExpired	Boolean	Has this address expired due to for example municipal merge. A new address will be automatically provided for expired addresses. The address that matched the provided address is only returned in case a more detailed explanation for a possible end user is useful (e.g. a user is informed that the inputted address has been expired and this new address should be used instead).
municipalityNumber	Integer	Municipality number of the street address. This is only present for the domestic street addresses.
municipalityNameFinnish	String	Finnish name of the municipality. Municipality number of the street address. This is only present for the domestic street addresses.
municipalityNameSwedish	String	Swedish name of the municipality. Municipality number of the street address. This is only present for the domestic street addresses.

The example below illustrates how a Finnish address Postintaival 7 A, 00230 HELSINKI is described in the address data structure.

Example 1: An address represented in the address data structure (JSON notation)

```
"Address":
{ "addressFamilyId":12345687,
    "streetAddress":"Postintaival 7 A",
    "postCode":"00230",
    "postOffice":"Helsinki",
    "isExpired":false,
    "municipalityNumber": "091",
    "municipalityNameFinnish": "Helsinki",
    "municipalityNameSwedish": "Helsingfors"
}
```

In some cases the PO Box addresses and/or the poste restante addresses must be recognized by the application using these services. The PO Box addresses has the abbreviation 'PL' (Finnish) or 'PB' (Swedish) in the beginning of the streetAddress element.

In cases of poste restante addresses the streetAddress element includes the string 'poste restante'. Please use the case insensitive comparison.



In addition to the shared part, the different services can return additional address info which is described in the next sections.

3.1.1. Address Verification Service specific address information

None

3.1.2. Payer Information Verification Service specific address information

Field	Туре	Description
status	String	Status of the address: CURRENT, PAST, FUTURE.
addressClass	String	Class of the address. Values: DOMESTIC_STREET_ADDRESS,
		DOMESTIC_POBOX_ADDRESS,
		DOMESTIC POSTCODE ADDRESS, FOREIGN ADDRESS

3.1.3. Verification of customer data Service specific address information

Field	Type	Description
status	String	Status of the address: CURRENT, PAST, FUTURE.
addressClass	String	Class of the address. Values: DOMESTIC_STREET_ADDRESS, DOMESTIC_POBOX_ADDRESS, DOMESTIC_POSTCODE_ADDRESS, FOREIGN_ADDRESS

3.2. Party data structure

Party holds information of a single person.

Field	Туре	Optional	Description
partyld	Integer	No	Unique ID for the party.
firstName	String	No	Person's first name. If the person has multiple first names, all first names are concatenated and separated by space characters (e.g. "Anna Maria").
lastName	String	No	Person's last name.
yearsSinceBirth	Two-element integer array: [0,14] [15,17] [18,300] null	No	Person's age information. First element is the lower limit of how many years have passed since the person's birth. Second element is the upper limit. E.g. yearsSinceBirth=[0,14] implies that person is between 0 (inclusive) and 14 (inclusive) years old.
status	DEAD, ALIVE, null	Yes	Shows if the person is dead or alive. This information is optional and supplied only when explicitly requested in the incoming request.
partyNames	Array of PartyName objects	yes	Current and former names of the person.

PartyName data structure

Field	Туре	Optiona I	Description
firstName	String	No	Person's first name. If the person has multiple first names, all first names are concatenated and separated by space characters (e.g. "Anna Maria").
lastName	String	No	Person's last name.

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20.3.2019

validFrom	String (yyyymmdd)	No	Date when the name became valid
validTo	String (yyyymmdd)	Yes	Date when the name became expired.
Status	CURRENT,	No	Status of the name; if the name is the person's
	PAST		current name (CURRENT) or former name
			(PAST).

The example below illustrates how Anna Maria Johansson (maiden name Nieminen) is described in the party data structure. She is alive and over 18 years.

```
"firstName": "Anna Maria",
"lastName": "Johansson",
"partyld": "15693256",
"status": "ALIVE",
"yearsSinceBirth": [18, 300],
"partyNames": [
  "firstName": "Anna Maria",
  "lastName": "Johansson",
  "validFrom": "20060302",
  "status": "CURRENT"
  "firstName": "Anna Maria",
  "lastName": "Nieminen",
  "validFrom": "19990329",
  "validTo": "20060302",
  "status": "PAST"
]
```



4. Common HTTP Response Codes

Status Code	REST services	SOAP services
HTTP 200 - OK	No errors	
HTTP 400 – Bad Request	The request format is corrup or request data is malformed	ted, required parameters are missing l.
HTTP 401 – Authentication Required	The request did not contain valid HTTP Basic Auth header, i.e. the header was missing, or the username or password were invalid.	
HTTP 403 – Not Authorized		ed (username and password not have the role to access the
HTTP 500 – Internal Server Error	Internal error at Posti's service. Internal error at Posti's set the response contains a S fault. A SOAP fault can reeg. requesting data that the not permitted to access.	
HTTP 503 – Service Unavailable	An invocation threshold has been exceeded for the service.	



5. Address Verification Service

This service tries to identify and correct the given address. The service returns one or more addresses with the correct spelling when the identification is successful. If identification fails only the information of no match is returned.

Input

Field	Туре	Optional	Description
streetAddress	String	No	e.g. Postintaival 7 A
postcode	String	No	e.g. 00230
postOffice	String	No	e.g. Helsinki

Output

Field	Туре	Description
matchType	EXACT_MATC H MATCH MULTI_MATCH NO MATCH	Describes the match type. See details below.
validAddresses	List <address></address>	If the match type was EXACT_MATCH or MATCH this field will contain the matching address. Note: This field's type is defined as a list in case we are able to provide a list of addresses for a multimatch response in the future.
expiredAddresses	List <address></address>	This field contains the address if it has been expired

5.1. EXACT_MATCH

The exact match is returned when the given address is found, and it is written exactly in the same way as in the Contact information Management system. The exact match is given even if the address has been expired or the street name is abbreviated correctly.

Request

GET

/tark is tuspalvel u/api/v1/rest/address correction/correct?postcode=00100 & street address=Arkadiankatu & 2060 & 20C & 2052 & postoffice=Helsinki HTTP/1.1

Host: posti.fi

Connection: keep-alive

Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=

Response

```
HTTP/1.1 200 OK

Pragma: No-cache

Cache-Control: no-cache

Content-Type: application/json

Transfer-Encoding: chunked

{"matchType":"EXACT_MATCH",

"validAddresses":[
    {"addressFamilyId":"121374369",

    "streetAddress":"Arkadiankatu 60 C 52",
```



```
"postCode":"00100",
    "postOffice":"HELSINKI",
    "isExpired":false}],
"expiredAddresses":null}
```

5.2. MATCH

The match is returned when the given address is found but it's misspelled. The match is given even if the address has been expired. The response includes the correctly spelled version of the address.

Request

```
GET
/tarkistuspalvelu/api/v1/rest/addresscorrection/correct?postcode=00100&streetaddress=Fred
rikink%2060%20C%2052&postoffice=HLESINK HTTP/1.1
Host: posti.fi
Connection: keep-alive
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
HTTP/1.1 200 OK
Pragma: No-cache
Cache-Control: no-cache
Content-Type: application/json
Transfer-Encoding: chunked

{"matchType":"MATCH",
    "validAddresses":
    [{"addressFamilyId":"121374369",
        "streetAddress":"Fredrikinkatu 60 C 52",
        "postCode":"00100",
        "postOffice":"HELSINKI",
        "isExpired":false}],
    "expiredAddresses":null}
```

5.3. MULTI_MATCH

Address query that has incomplete info about property, stair and apartment numbers and letters may result to MULTI_MATCH because query matches more than one address. For example when querying Taivastie 13 that has properties Taivastie 13a, 13b and 13c results to MULTI_MATCH.

Request

```
GET /tarkistuspalvelu/api/v1/rest/
addresscorrection/correct?postcode=00100&streetaddress=Taivastie%2013&postoffice=Helsinki
HTTP/1.1
Host: Posti.fi
Connection: keep-alive
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
{
    "matchType": "MULTIMATCH",
    "validAddresses": null,
```

Posti Oy Kotipaikka Helsinki PL 7, 00011 POSTI



```
"expiredAddresses": null,
    "addresses": null
}
```

5.4. NO_MATCH

The no match is returned when the given address is misspelled in a way that it can't be recognized, or the address doesn't exist.

Request

```
GET
/tarkistuspalvelu/api/v1/rest/addresscorrection/correct?postcode=00100&streetaddress=Fred
rik&postoffice=HLESINK HTTP/1.1
Host: posti.fi
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
HTTP/1.1 200 OK

Content-Type: application/json

Transfer-Encoding: chunked

{ "matchType": "NOMATCH",
 "validAddresses": null,
 "expiredAddresses": null
}
```



6. Verification of Customer Data Service

This service returns name and address information of a person identified by name and address. The given name or address can be current or expired. Service returns information whether match was done against past name or address, this can be used to check whether address needs to be updated

The result is EXACT_MATCH (person name and address are written correctly), MATCH (spelling mistakes in name or address), NO_MATCH (name and address do not match) or MULTI_MATCH (multiple matches found, i.e. multiple persons with same name live in the given address).

Status of whether the person is deceased or alive is always included.

If the requested data is non-public ("luovutuskiellossa olevat tiedot" in Finnish), Posti is not permitted to supply the data and the service returns NO_MATCH by default. Non-public data access is not available for customer users.

6.1. Search by name and address

To request customer data verification by name and address, the following URL is used

https://www.posti.fi/tarkistuspalvelu/api/v1/rest/partyinfo/findByNameAndAddress?firstName=<firstName>&lastName=<lastName>&streetAddress=<streetAddress>&postCode=<postCode>&postOffice=<postCode>&firstName=<firstName>&streetAddress=<streetAddress>&postCode=<postCode>&postOffice=<postCode>&firstName=<firstName>&streetAddress=<streetAddress>&firstName=<firstName>&firstName=<firstName>&streetAddress>&postCode=<postCode>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName=<firstName>&firstName

Input

pat			
Field	Туре	Optional	Description
firstName	String	No	One to all first names of the person. Multiple
			first names are separated by space character.
lastName	String	No	Last name of the person.
streetAddress	String	No	e.g. Postintaival 7 A
postCode	String	No	e.g. 00230
postOffice	String	No	e.g. Helsinki

Output

Field	Туре	Description
matchType	EXACT_MATCH	Describes the type of the result. In case of
	MATCH	MULTI_MATCH and NO_MATCH no other
	MULTI_MATCH	information is included in the response.
	NO_MATCH	
addresses	Address[]	Address of the matched party.
party	Party	Identified party.
publicityLevel	PUBLIC	Publicity level of the returned information.
	NON_PUBLIC	
matchPastName	Boolean	True if matched against past name.
matchPastAddress	Boolean	True if matched against past address.
matchFutureAddress	Boolean	True if matched against future address.
matchAddressFamilyId	Integer	Common id of address that matched.

Request

GET



Response

```
"party": {
    "firstName": "Anna Maria",
    "lastName": "Johansson",
    "partyId": "15693255",
    "status": "ALIVE",
    "partyNames": [
        {
            "firstName": "Anna Maria",
            "lastName": "Johansson",
            "validFrom": "20060302",
            "status": "CURRENT"
        }
    ],
    "yearsSinceBirth": [18,300]
},
"addresses": [
        "streetAddress": "Arkadiankatu 60 C 52",
        "postCode": "00100",
        "postOffice": "HELSINKI",
        "expired": false,
        "status": "CURRENT",
        "validFrom": "20050126"
],
"publicityLevel": "PUBLIC"
"matchPastName": false,
"matchPastAddress": false,
"matchFutureAddress": false,
"matchAddressFamilyId": "123443210"
```



7. Verification of Payer Information Service

This service verifies the consistency of payers (person buying a product) information (social security number, name and address). The verification result is one of the following codes:

- EXACT MATCH person's name, address and ssn match
- MATCH spelling mistakes in name or address, ssn matches the person
- •
- non-matching cases:
 - SSN_MISMATCH name and address match, but ssn belongs to another person
 - The possibility of fraud should be investigated thoroughly before accepting the transaction
 - UNKNOWN_NAME name is not found in the person's official name history
 - The possibility of fraud should be investigated before accepting the transaction
 - UNKNOWN ADDRESS address is not found in person's address history
 - This occurs e.g. when a person has newly moved and has not yet registered the new address
 - SSN_NOT_IN_REGISTER Posti's register does not contain ssn for the person found by name and address. Posti can not confirm if the ssn provided in the query is the person's real ssn.
 - This occurs e.g. when Posti has not yet been informed that an immigrant has been granted an official Finnish ssn.
 - NO_MATCH verification failed due to misspelled address, non-existing ssn, or Posti is not authorized to supply the information, etc.

Parameter includeDeceasedCheck=true can be included in the request to check if the matched person is dead or alive.

If the name, address or ssn are non-public ("henkilötiedot luovutuskiellossa" in Finnish), Posti is not authorized to supply the matching data and NO_MATCH is returned.

Missing required parameters (such as lastName) or malformed parameters (malformed ssn) result HTTP 400 – Bad request with descriptive text.

Input

Field	Туре	Optional	Description
firstName	String	No	One to all first names of the person. Multiple first
			names are separated by space character.
lastName	String	No	Last name of the person.
streetAddress	String	No	e.g. Postintaival 7 A
ssn	String	No	Syntactically valid Finnish social security number.
postcode	String	No	e.g. 00230
postOffice	String	No	e.g. Helsinki
includeDeceasedCheck	Boolean	Yes	If set to true and there is a match a query is made to determine whether the person is alive or deceased. Note: Setting this value to true will have price implications.
Api-Version	String	Yes	Defines the version of the service. The currently supported version is 2. This parameter can be given either as a URL query parameter or as an HTTP header, query parameter having precedence.



	Can be either "1" or "2" (without quotes), defaults to
	"1".

Output

Field	Туре	Description
matchType	EXACT_MATCH	Describes the type of the result. See examples below.
	MATCH	
	SSN_MISMATCH	
	UNKNOWN_NAME	
	UNKNOWN_ADDRESS	
	SSN_NOT_IN_REGISTER	
	NO_MATCH	
address	Address	Address of the matched party.
party	Party	Identified party if there is an exact match.
partylsDeceased	Boolean	If the includeDeceasedCheck parameter was set to true
		and match type is exact match then this value will
		describe whether the identified party has deceased.

7.1. EXACT_MATCH

Request

```
GET
/tarkistuspalvelu/api/v1/rest/partyverification/verify?firstName=Antti&lastName=Testinen&
streetAddress=Arkadiankatu%2060%20C%2052&postCode=00100&postOffice=HELSINKI&ssn=180878-
213B&includeDeceasedCheck=true HTTP/1.1
Host: Posti.fi
Connection: keep-alive
Api-Version: 2
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
"matchType": "EXACT_MATCH",
"address": {
    "streetAddress": "Arkadiankatu 60 C 52",
    "postCode": "00100",
    "postOffice": "HELSINKI",
    "expired": false,
    "status": "CURRENT"
},
"party": {
    "firstName": "ANTTI",
    "lastName": "TESTINEN",
    "partyId": "14481691",
    "status": "ALIVE",
    "yearsSinceBirth": [ 18, 300 ]
},
"partyIsDeceased": false)
```

7.2. MATCH

Post office name is misspelled in the request (HLESINKI, should be HELSINKI). This is why matchType is MATCH (not EXACT_MATCH).

Posti Oy

PL 7, 00011 POSTI Asiakaspalvelu 0200 77000 (suomeksi)



Request

```
GET
/tarkistuspalvelu/api/v1/rest/partyverification/verify?firstName=Antti&lastName=Testinen&
streetAddress=Arkadiankatu%2060%20C%2052&postCode=00100&postOffice=HLESINKI&ssn=180878-
213B HTTP/1.1
Host: Posti.fi
Connection: keep-alive
Api-Version: 2
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
{
    "matchType": "MATCH",
    "address": {
        "streetAddress": "Arkadiankatu 60 C 52",
        "postCode": "00100",
        "postOffice": "HELSINKI",
        "expired": false,
        "status": "CURRENT"
},
    "party": {
        "firstName": "ANTTI",
        "lastName": "TESTINEN",
        "partyId": "14481691",
        "yearsSinceBirth": [ 18, 300 ]
}
```

7.3. SSN_MISMATCH

Name and address match other ssn than expected. The possibility of fraud should be investigated thoroughly before accepting the transaction.

The following persons are found in Posti's records:

- Tapani Testinen, ssn 200254-883X, address Postintaival 7 A, 00230 HELSINKI
- Maija Mäkinotkelma, ssn 131052-308T, address Fredrikinkatu 60 C 52 00100 HELSINKI

Querying "Tapani Testinen, ssn 131052-308T, address Postintaival 7 A, 00230 HELSINKI" results SSN_MISMATCH.

Tapani Testinen could have payment defaults (poor payment record) which he tries to conceal by using Maija Mäkinotkelma's ssn.

Request

```
GET /tarkistuspalvelu/api/v1/rest/partyverification/verify?firstName=Tapani&lastName=Testinen &streetAddress=Postintaival%207%20A&postCode=00230&postOffice=HELSINKI&ssn=131052-308T HTTP/1.1
```



```
Host: Posti.fi
Connection: keep-alive
Api-Version: 2
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
"matchType": "SSN_MISMATCH"
}
```

7.4. UNKNOWN_NAME

Name does not match ssn.

The following person is found in Posti's records:

Tapani Testinen, ssn 200254-883X, address Postintaival 7 A, 00230 HELSINKI

Querying "Tapsa Testinen, ssn 200254-883X, address Postintaival 7 A, 00230 HELSINKI" results UNKNOWN NAME.

Request

```
GET
/tarkistuspalvelu/api/v1/rest/partyverification/verify?firstName=Tapsa&lastName=Testinen&
streetAddress=Postintaival%207%20A&postCode=00230&postOffice=HELSINKI&ssn=200254-883X
HTTP/1.1
Host: Posti.fi
Connection: keep-alive
Api-Version: 2
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
{
    "matchType": "UNKNOWN_NAME"
}
```

7.5. UNKNOWN_ADDRESS

Address is not found in person's address history

The following person is found in Posti's records:

Tapani Testinen, ssn 200254-883X, address Postintaival 7 A, 00230 HELSINKI

Querying "Tapani Testinen, ssn 200254-883X, address Fredrikinkatu 60 C 52 00100 HELSINKI" results UNKNOWN_ADDRESS.

It could be that Mr. Testinen has just moved in the Fredrikinkatu address and haven't yet registered the new address.

Request

GET

/tarkistuspalvelu/api/v1/rest/partyverification/verify?firstName=Tapani&lastName=Testinen &streetAddress=Fredrikinkatu%2060%20C%2052&postCode=00100&postOffice=HELSINKI&ssn=200254-883X&includeDeceasedCheck=false HTTP/1.1

Posti Oy Kotipaikka Helsinki PL 7, 00011 POSTI



```
Host: Posti.fi
Connection: keep-alive
Api-Version: 2
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
{
    "matchType": "UNKNOWN_ADDRESS"
}
```

7.6. NO_MATCH

Address or ssn could not be recognized.

The following person is found in Posti's records:

Tapani Testinen, ssn 200254-883X, address Postintaival 7 A, 00230 HELSINKI

Misspelling address as "Po7Aintaiva 99999 HELSINKI" results NO_MATCH.

Request

```
GET
/tarkistuspalvelu/api/v1/rest/partyverification/verify?firstName=Tapani&lastName=Testinen
&streetAddress=Po7Aintaiva&postCode=99999&postOffice=HELSINKI&ssn=200254-883X HTTP/1.1
Host: Posti.fi
Connection: keep-alive
Api-Version: 2
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
{
    "matchType": "NO_MATCH"
}
```

7.7. Some HTTP errors due to missing or malformed information

HTTP 400 - Bad Request (missing lastName) - The request does not contain parameter "lastName".

Request

```
GET
```

/tark is tuspalvelu/api/v1/rest/party verification/verify? firstName=Anna&streetAddress=Arkadiankatu 2060 20C 2052 & postCode=00100 & postOffice=HLESINKI & ssn=180878-213B HTTP/1.1

```
Host: Posti.fi
Connection: keep-alive
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
```

Response

```
HTTP/1.1 400 Bad Request
Server: Apache-Coyote/1.1
Content-Type: application/json
Content-Length: 27
```



Date: Mon, 02 Sep 2013 12:53:11 GMT

Connection: close

Errors: lastName is missing, malformed ssn "180878-213B"

HTTP 400 - Bad Request (malformed ssn) - The supplied ssn value "180878-21" is malformed.

Request

GET

Host: Posti.fi

Connection: keep-alive

Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=

Response

HTTP/1.1 400 Bad Request Server: Apache-Coyote/1.1 Content-Type: application/json

Content-Length: 33

Date: Mon, 02 Sep 2013 12:45:33 GMT

Connection: close

Errors: malformed ssn "180878-21"



8. Customer Register Check Service

This service answers to the question whether a person identified by name and address is among your specified customer Maintenance Register. The service lists all identifiers by which the matched person occurs in your register.

The service provides two check types; they determine how the person to be checked for has to be matched against the register information. For PERSON_MATCH, it suffices that the register contains the person's name, whereas for PERSON_AND_ADDRESS_MATCH it is necessary that the register contains both the person's name and address as a combination. The first check type is more relaxed since it provides a match even though the person in your register has a different address to the one provided. It should be noted that this check type requires the address so that the person can be reliably identified against the reference register.

This service is available both as REST API and as SOAP API.

Your Posti customer account information, e.g. SAP order customer and billing address, are set when user account for authentication is created by Posti. Default values can be changed by Posti customer service.

If you have multiple SAP order customer accounts and they have different customer registries in Maintenance Service, the values can be changed per request basis by using optional http headers. Thus same user account (basic auth) can be used to query multiple Posti customer accounts. Customer registry specified must be owned by given SAP order customer. SAP order and billing customer must belong to authenticated user.

Headers for setting customer account information (optional, otherwise your default values for user are used): X-Posti-OrderCustomer: <SAP order customer number> X-Posti-BillingAddress: <SAP billing address number>

8.1. REST API

Update register check service can be accessed at URL:

https://www.posti.fi/tarkistuspalvelu/api/v1/rest/updateregister/

Currently, there is only one resource "check", which returns matched persons in your register.

The response is in JSON format.

8.1.1. Check by name and address

To check update register, the following URL is used

https://www.posti.fi/tarkistuspalvelu/api/v1/rest/updateregister/check?checkType=person_matc h&updateRegisterId=<id>&firstname=<firstname>&lastName=<lastname>&streetaddress=<street address>&postcode=<postcode>&postOffice=<postoffice>

Input parameters

Field	Туре	Optional	Description
checkType	Enum	No	PERSON_MATCH or
			PERSON_AND_ADDRESS_MATCH
updateRegisterId	String	No	Unique Id of your customer register in Posti
			maintenance service. Given by Posti.



firstname	String	No	Person's first name. If the person has multiple first names, all first names are concatenated and separated by space characters (e.g. "Anna Maria").
lastName	String	No	Person's last name.
streetaddress	String	No	Street with premises or PO Box. For example
			Kauppakatu 1 C 2
postcode	String	No	For example 00100
postOffice	String	No	For example Helsinki

Output

Field	Туре	Description
checkType	Enum	PERSON_MATCH or
		PERSON_AND_ADDRESS_MATCH
matchingPersons	String[]	List of matching person identifiers in the registers.
_		Empty if no match.

Request

```
GET
/tarkistuspalvelu/api/v1/rest/updateregister/check?checkType=person_match&updateRegisterId
=123&firstname=Antti&lastName=Testinen&streetaddress=Katutie%201&postcode=00100&postOffice
=Helsinki HTTP/1.1
Host: Posti.fi
Connection: keep-alive
Authorization: Basic dXNlcm5hbWU6cGFzc3dvcmQ=
X-Posti-OrderCustomer: 765432
X-Posti-BillingAddress: 9876543
```

Response

```
"checkType":"PERSON_MATCH",
    "matchingPersons":["123","321"]}
}
```

8.2. SOAP API

The WSDL for Maintenance Register Check Service SOAP API is available at

https://www.posti.fi/tarkistuspalvelu/api/v1/soap/updateregister?wsdl

Note that wsdl is autogenerated and soap:address is missing some parts of the URL, so please use SOAP API address above.

The interface provides one operation

check

These operations correspond with the rest interface and use the same parameters.



8.2.1. Check by name and address

Request example:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"</pre>
xmlns:fron="http://frontend.tapa.itella.com/">
   <soapenv:Header/>
   <soapenv:Body>
      <fron:check>
         <check>
            <checkType>PERSON_AND_ADDRESS_MATCH</checkType>
            <updateRegisterId>123</updateRegisterId>
            <firstName>Antti</firstName>
            <lastName>Testinen
            <streetAddress>Katutie 1</streetAddress>
            <postCode>00100</postCode>
            <postOffice>Helsinki</postOffice>
         </check>
      </fron:check>
   </soapenv:Body>
</soapenv:Envelope>
```

Response:

8.3. Return codes

HTTP return codes

Return code	Description
200	Success, also when customer is not found
	(matchingPersons list is empty)
400	Invalid request, missing parameter
401	Authentication headers for http basic auth are
	missing

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403	Access forbidden, invalid credentials,	
	updateRegisterId is invalid, SAP order or billing	
	customer does not belong to authenticated	
	user, given updateRegisterId does not belong	
	to given SAP order customer	
404	Page not found, invalid url	
500	Internal server error from service side	



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- This service is only meant to be used for Finnish addresses and people