



Postnummerservice Norden AB

## **Valid API - Introduction**

Address validation and  
autocomplete functionality of address data

## Getting started

To access Valid API you simply send an request to the following address with the necessary parameters for your query:

<http://valid.postnummerservice.se/11.45/api/>

Which parameters to use is described further down in this document.

But in order to be able to use the API you'll need an API key.

Contact us for more information on how to obtain your own API key.

### **Valid API consists of two different main functions**

1. Address validation
2. Autocomplete functionality of address data, such as street names, postal codes, postal localities.

# Address validation

Address validation is a service which helps you validate a Swedish postal address.

Each request returns a response with the following information:

- A status code which tells you if the submitted address is a valid Swedish address or not.
- The street address is parsed and returned as separate parts:  
Street name, number, letter, extra information such as port number, stairs etc.
- Suggestions of valid addresses if the submitted address is invalid.

## Valid API - Request URL

<http://valid.postnummerservice.se/11.45/api/validate/>

## Parameters

Below is a list of all parameters that can be used in combination with Valid API - Address validation.

Reference	Description	Example
<b>api_key</b>	Your API key which must accompany each request to our API.	api_key=YOUR_API_KEY
<b>response_format</b>	The format you want the API response in: "json", "xml" or "text".	response_format=json
<b>suggestions</b>	Whether or not you want suggestions of valid addresses when submitting an invalid address.  1 = Yes 0 = No	suggestions=1
<b>street</b>	The street address to be validated. Street number, letter and additional information can occur directly in this field, but may also be disclosed as a separate parameter (see below: number, letter, extra).	street=Storgatan street=Storgatan 12A street=Storgatan 12A, lgh 1234
<b>number</b>	Street Number.  Only used if you wish to submit this as a separate parameter. Otherwise both the street number and letter will be extracted automatically from the street address in the "street" parameter.	number=12
<b>letter</b>	Letter (accompanying the street number).  Only used if you wish to submit this as a separate parameter. Otherwise both the street number and letter will be extracted automatically from the street address in the "street" parameter.	letter=A
<b>postalcode</b>	Postal code accompanying the street address to be validated.	postalcode=12345 postalcode=123 45
<b>locality</b>	Postal locality accompanying the street address to be validated.	locality=Stockholm

## Valid API - Address validation - Examples

**Validation of a correct address:** Kungsgatan 2, 223 50 Lund

[http://valid.postnummerservice.se/11.45/api/validate/?api\\_key=ER\\_API\\_NYCKEL&street=Kungsgatan%20&postalcode=22350&locality=lund&suggestions=1&response\\_format=xml](http://valid.postnummerservice.se/11.45/api/validate/?api_key=ER_API_NYCKEL&street=Kungsgatan%20&postalcode=22350&locality=lund&suggestions=1&response_format=xml)

**Validation of a correct address with common abbreviations:** Kungsg. 2, 223 50 Lund

[http://valid.postnummerservice.se/11.45/api/validate/?api\\_key=ER\\_API\\_NYCKEL&street=Kungsg.%20&postalcode=22350&locality=lund&suggestions=1&response\\_format=xml](http://valid.postnummerservice.se/11.45/api/validate/?api_key=ER_API_NYCKEL&street=Kungsg.%20&postalcode=22350&locality=lund&suggestions=1&response_format=xml)

**Validation of an address with an invalid postal code:** Kungsg. 2, 223 51 Lund

[http://valid.postnummerservice.se/11.45/api/validate/?api\\_key=ER\\_API\\_NYCKEL&street=Kungsg.%20&postalcode=22351&locality=lund&suggestions=1&response\\_format=xml](http://valid.postnummerservice.se/11.45/api/validate/?api_key=ER_API_NYCKEL&street=Kungsg.%20&postalcode=22351&locality=lund&suggestions=1&response_format=xml)

**Validation of an address with a misspelled street name and an invalid postal code:**

Knugsgatan 2, 223 51 Lund

[http://valid.postnummerservice.se/11.45/api/validate/?api\\_key=ER\\_API\\_NYCKEL&street=Knugsgatan%20&postalcode=22351&locality=lund&suggestions=1&response\\_format=xml](http://valid.postnummerservice.se/11.45/api/validate/?api_key=ER_API_NYCKEL&street=Knugsgatan%20&postalcode=22351&locality=lund&suggestions=1&response_format=xml)

**Need further help on how to understand how Valid API works?**

Use our interactive guide which helps you create a request to Valid API:

<http://demo.postnummerservice.se/valid-api/demo/>

## **Autocomplete functionality - automatic suggestions of address data**

Autocomplete functionality is a service that serves you suggestions of street names, postal codes, and/or postal localities based on certain conditions.

For instance:

- Send a request with the first three letters of a street name and get suggestions of the complete street addresses.
- Send a request with the first two digits of a postal code, and get suggestions of all valid postal codes which starts with these two digits.

Valid API Autocomplete gives you suggestions of three different address data: street names, postal codes and postal localities.

## Automatic suggestions of street names

### Request URL

<http://valid.postnummerservice.se/11.45/api/suggest/street/>

### Parameters

The following parameters can be used in combination with automatic suggestions of street names.

Reference	Description	Example
<b>api_key</b>	Your API key which must accompany each request to our API.	api_key=YOUR_API_KEY
<b>response_format</b>	The format you want the API response in: "json", "xml" or "text".	response_format=json
<b>q</b>	The main search parameter that you use to enter a search phrase.	q=Stor q=Norra Sta
<b>text_field_separator</b>	If the "response_format" parameter is set to "text", this parameter lets you control what character divides the address data. (See the "cols" parameter below).	text_field_separator=; text_field_separator=#
<b>cols</b>	Ability to control what type of address information to be included in each suggestion.  A comma separated string with one or more of the following values: "street", "postalcode", "locality"	cols=street,postalcode cols=street,postalcode,locality cols=street,locality
<b>postalcode</b>	Narrow the selection to a particular postal code area. When this parameter is used, only the street names within the specified zip code area will be proposed.  Can be either the first digits of a zip code, or a full postcode.	postalcode=12345 postalcode=1234 postalcode=123 postalcode=12 postalcode=1
<b>locality</b>	Limit selection to a particular postal district. When this parameter is used, the only street that is within the specified postal district will be proposed.  Can be either the first letters in a postal district, or a full postal district.	locality=Arboga locality=Arbog locality=A

## Automatic suggestions of postal codes

### Request URL

<http://valid.postnummerservice.se/11.45/api/suggest/postalcode/>

### Parameters

The following parameters can be used in combination with automatic suggestions of postal codes.

Reference	Description	Example
<b>api_key</b>	Your API key which must accompany each request to our API.	api_key=YOUR_API_KEY
<b>response_format</b>	The format you want the API response in: "json", "xml" or "text".	response_format=json
<b>q</b>	The main search parameter that you use to enter a search phrase.	q=123 45 q=12345 q=1234 q=123 q=12 q=1
<b>text_field_separator</b>	If the "response_format" parameter is set to "text", this parameter lets you control what character divides the address data. (See the "cols" parameter below).	text_field_separator=; text_field_separator=#
<b>cols</b>	Ability to control what type of address information to be included in each suggestion.  A comma separated string with one or more of the following values: "postalcode", "locality"	cols=postalcode cols=postalcode,locality cols=locality,postalcode
<b>locality</b>	Limit selection to a particular postal district. When this parameter is used, only postal codes within this postal locality will be suggested.  Can be either the first letters in a postal locality, or the full name of a valid postal locality.	locality=Arboga locality=Arbog locality=A

## Automatic suggestions of postal locality

### Request URL

<http://valid.postnummerservice.se/11.45/api/suggest/locality/>

### Parameters

The following parameters can be used in combination with automatic suggestions of postal localities.

Reference	Description	Example
<b>api_key</b>	Your API key which must accompany each request to our API.	api_key=YOUR_API_KEY
<b>response_format</b>	The format you want the API response in: "json", "xml" or "text".	response_format=json
<b>q</b>	The main search parameter that you use to enter a search phrase.	q=Sto q=Ar q=M



## Valid API - Autocomplete - Examples

### Example - suggestion of street names

Suggestions of street names that starts with "Kungs" in "text" format:

[http://valid.postnummerservice.se/11.45/api/suggest/street/?  
api\\_key=YOUR\\_API\\_KEY&q=Kungs&response\\_format=text](http://valid.postnummerservice.se/11.45/api/suggest/street/?api_key=YOUR_API_KEY&q=Kungs&response_format=text)

Suggestion of street names that starts with "Kungs" and where the postal code starts with "90" in "text" format.

[http://valid.postnummerservice.se/11.45/api/suggest/street/?  
api\\_key=YOUR\\_API\\_KEY&q=Kungs&postalcode=90&response\\_format=text](http://valid.postnummerservice.se/11.45/api/suggest/street/?api_key=YOUR_API_KEY&q=Kungs&postalcode=90&response_format=text)

Suggestion of all street names that matches "Storgatan" and the postal locality is "Göteborg".

The response is in "xml" format where each street suggestion comes with the corresponding postal code and locality.

[http://valid.postnummerservice.se/11.45/api/suggest/street/?  
api\\_key=YOUR\\_API\\_KEY&q=Storgatan&locality=Göteborg&response\\_format=xml&cols=street,postalcode,locality](http://valid.postnummerservice.se/11.45/api/suggest/street/?api_key=YOUR_API_KEY&q=Storgatan&locality=Göteborg&response_format=xml&cols=street,postalcode,locality)

### Example - suggestion of postal codes

Suggestion of postal codes that starts with "12" in "text" format:

[http://valid.postnummerservice.se/11.45/api/suggest/postalcode/?  
api\\_key=YOUR\\_API\\_KEY&q=12&response\\_format=text](http://valid.postnummerservice.se/11.45/api/suggest/postalcode/?api_key=YOUR_API_KEY&q=12&response_format=text)

Suggestion of postalcodes with the corresponding postal locality where the postalcode starts with "512".

[http://valid.postnummerservice.se/11.45/api/suggest/postalcode/?  
api\\_key=YOUR\\_API\\_KEY&q=512&response\\_format=text&cols=postalcode,locality](http://valid.postnummerservice.se/11.45/api/suggest/postalcode/?api_key=YOUR_API_KEY&q=512&response_format=text&cols=postalcode,locality)

### Example - suggestion of postal locality

Suggestion of postal localities that starts with "Arb":

[http://valid.postnummerservice.se/11.45/api/suggest/locality/?  
api\\_key=YOUR\\_API\\_KEY&q=Arb&response\\_format=text](http://valid.postnummerservice.se/11.45/api/suggest/locality/?api_key=YOUR_API_KEY&q=Arb&response_format=text)