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# Use of WebServices

## Introduction

The aim of this Web Service is to allow UrbIS users to find addresses that are located in the Brussels Region.

The Web Service can be used in

- REST: <http://geoservices.irisnet.be/localization/>.
- SOAP: <http://geoservices.irisnet.be/localization/SOAP/Localization?wsdl>

The use of the Web Service is free of charge and falls under the UrbIS opendata license <http://cirb.brussels/fr/nos-solutions/urbis-solutions/licence-urbis-open-data>.

HTTP and HTTPS are enabled, simply modify the http by https in all given URLs.

If you need more info about the use of our WebService, please feel free to ask by contacting us through Irisline ([irisline@cirb.brussels](mailto:irisline@cirb.brussels)). Please mention "GIS\_ASP WebService" in the subject line.

## Mandatory parameters

For each function of this Web Service, the following parameters are required

Parameter Name	Allowed Values
language	<ul style="list-style-type: none"><li>• fr</li><li>• nl</li></ul>
spatialReference	<ul style="list-style-type: none"><li>• 31370 = Belge lambert</li><li>• 4326 = Wgs 1984</li><li>• 102100 = Web Mercator Auxiliary Sphere</li></ul>

### Exceptions :

Exception	Parameter Name	Example value	Explanation
SrsException	spatialReference	1111	If the parameter is missing, empty or wrong value
LanguageException	language	en	If the parameter is empty, missing or wrong value ( the correct value must be : fr,nl or empty to make a search in Dutch and French

## 1. Geolocalization functions

GetAddresses

Returns the searched address.

**URL :** <http://geoservices.irisnet.be/localization/Rest/Localize/getaddresses?>

Parameter Name	Example
address	21 avenue des arts

Exception	Parameter Name	Example value	Explanation
GenericAddressException	address	""	If the parameter is empty or missing

## GetAddressesfromAdnc

Returns the address identified by the ADNc

URL :<http://geoservices.irisnet.be/localization/Rest/Localize/getaddressfromadnc>

Parameter Name	Example
adnc	10700265 55

Exception	Parameter Name	Example value	Explanation
AdncException	adnc	" "	If the parameter is empty or missing

## Get point of interest

Searches for a point of interest registered in UrbIS.

URL :<http://geoservices.irisnet.be/localization/Rest/Localize/getpoi>

Parameter Name	Example
name	LYCEE COMMUNAL EMILE MAX
type	SFS

Exception	Parameter Name	Example value	Explanation
POIException	name	" "	If the parameter is empty or missing
POIException	type	""	If the parameter is empty or missing

## Returns

If a user executes a search with the following user input :

- Avenue des arts 21 1000 Bruxelles

the function returns an array of addresses qualified by:

- language
- address

- street
- number
- adNc (Address National Code)
- score
- address location
- address extent (point + buffer)
- qualification texts and codes (cf. [explanation](#) below)

## Json result

```
{
  "result": [
    {
      "language": "fr",
      "address": {
        "street": {
          "name": "Avenue des Arts",
          "postCode": "1000",
          "municipality": "Bruxelles",
          "id": "5583"
        },
        "number": "21"
      },
      "adNc": "10005006 21",
      "score": 100,
      "point": {
        "x": 150041.69,
        "y": 170633.64
      },
      "extent": {
        "xmin": 149797.08,
        "ymin": 170019.96,
        "xmax": 150085.48,
        "ymax": 170956.07
      },
      "qualificationText": {
        "policeNumber": "Found",
        "postCode": "Not found",
        "municipality": "Not found ",
        "streetName": "Found"
      },
      "qualificationCode": {
        "policeNumber": "1",
        "postCode": "2",
        "municipality": "2",
        "streetName": "1"
      }
    }
  ],
  "error": false,
  "status": "success",
  "version": "2.0"
}
```

The score indicates the matching between the input string entered by the user and the address returned by the web services.

## Qualification texts and codes

Two elements of the response JSON describe the degree of response quality.

You are highly recommended to use them if you want to correctly interpret the result given by the Webservice.

eg:

```
"qualificationText": {
    "policeNumber": "Police number matches",
    "postCode": "Not introduced",
    "municipality": "Not introduced",
    "streetName": "Street name matches"
},
"qualificationCode": {
    "policeNumber": "1",
    "postCode": "0",
    "municipality": "0",
    "streetName": "1"
}
```

### List of possible values for each entry element

#### QualificationText

##### #POLICE NUMBER

- Not introduced
- Police number matches
- Police number doesn't match
- Police number interpolates

##### #STREET

- Not introduced
- Street name matches
- Street name doesn't match

##### #MUNICIPALITY

- Not introduced
- Municipality matches
- Municipality doesn't match

##### #POST CODE

- Not introduced
- Postal code matches
- Postal code doesn't match

#### QualificationCode

##### #POLICE NUMBER

- 0 => Police number not introduced
- 1 => Police number matches
- 2 => Police number does not match
- 3 => Police number interpolates

##### #STREET

- 0 => Street not introduced
- 1 => Street matches
- 2 => Street does not match

##### #MUNICIPALITY

- 0 => Municipality not introduced
- 1 => Municipality matches
- 2 => Municipality does not match

##### #POST CODE

- 0 => Post Code not introduced
- 1 => Postal code matches
- 2 => Postal code does not match

## 2. Reverse Geolocalization functions

### Get address from x y

Returns the closest address from the given point.

**URL** :<http://geoservices.irisnet.be/localization/Rest/Localize/getaddressfromxy>

**Params** :

Parameter Name	Example
point	point": {"x":149785, "y":170561} }
SRS_In	31370

Complete example:

[http://geoservices.irisnet.be/localization/Rest/Localize/getaddressfromxy?callback=jQuery152006581468958730063\\_1426251169756&json={"language":"fr","point":{"x":"149785","y":"170561"},"SRS\\_In":"31370"}&\\_=1426257504054](http://geoservices.irisnet.be/localization/Rest/Localize/getaddressfromxy?callback=jQuery152006581468958730063_1426251169756&json={)

**Exceptions** :

Exception	Parameter Name	Example value	Explanation
	name	" "	If the parameter is empty or missing

## NearestAddressFromPoint

Returns addresses that are close to the given point.

**URL** :<http://geoservices.irisnet.be/localization/Rest/Localize/NearestAddressFromPoint>

**Params** :

Parameter Name	Example
point	point": {"x":149785, "y":170561} }
SRS_In	31370
maxhits	5
SRS_Out	31370

Complete example:

[http://geoservices.irisnet.be/localization/Rest/Localize/getaddressfromxy?callback=jQuery152006581468958730063\\_1426251169756&json={"language":"fr","point":{"x":"149785","y":"170561"},"SRS\\_In":"31370"}&\\_=1426257504054](http://geoservices.irisnet.be/localization/Rest/Localize/getaddressfromxy?callback=jQuery152006581468958730063_1426251169756&json={)

**Exceptions** :

Exception	Parameter Name	Example value	Explanation
	name	" "	If the parameter is empty or missing

## getAddressFromParcel

Returns the addresses that are enclosed in the parcel specified by the point.

**URL** : <http://geoservices.irisnet.be/localization/Rest/Localize/getAddressFromParcel>

**Params** :

Parameter Name	Example
point	point": {"x":149785, "y":170561} }
SRS_In	31370

SRS_Out	31370
---------	-------

Complete example:

[http://geoservices.irisnet.be/localization/Rest/Localize/getAddressFromParcel?callback=jQuery152006581468958730063\\_1426251169757&json={\"language\":\"fr\",\"point\":{\"x\":\"149785\",\"y\":\"170561\"},\"SRS\\_In\":\"31370\",\"SRS\\_Out\":\"31370\"}&\\_=1426258625569](http://geoservices.irisnet.be/localization/Rest/Localize/getAddressFromParcel?callback=jQuery152006581468958730063_1426251169757&json={\)

Exceptions :

Exception	Parameter Name	Example value	Explanation
	name	\" \"	If the parameter is empty or missing

## getAddressFromBuilding

Returns the addresses that are enclosed in the building specified by the point.

URL : <http://geoservices.irisnet.be/localization/Rest/Localize/getAddressFromBuilding>

Params :

Parameter Name	Example
point	point : { \"x\" : 149785, \"y\" : 170561 }
SRS_In	31370
SRS_Out	31370

Complete example:

[http://geoservices.irisnet.be/localization/Rest/Localize/getAddressFromBuilding?callback=jQuery152006581468958730063\\_1426251169758&json={\"language\":\"fr\",\"point\":{\"x\":\"149785\",\"y\":\"170561\"},\"SRS\\_In\":\"31370\",\"SRS\\_Out\":\"31370\"}&\\_=1426258981647](http://geoservices.irisnet.be/localization/Rest/Localize/getAddressFromBuilding?callback=jQuery152006581468958730063_1426251169758&json={\)

Exceptions :

Exception	Parameter Name	Example value	Explanation
	name	\" \"	If the parameter is empty or missing

## 3. Auto Completion functions

These functions are the base for creating an auto-complete on a field. The auto-complete helps the users during the input of a street name.

### Autocompletion for street with Police Number

URL : <http://geoservices.irisnet.be/localization/Rest/Localize/getPoliceNumberAutoCompletion>

Params :

Parameter Name	Example
address	arts
shortModeActive	true or false
language	fr or nl or <empty>

Complete example:

<http://geoservices.irisnet.be/localization/Rest/Localize/getPoliceNumberAutoCompletion?&language=fr&address=arts&shortModeActive=true>



**Exceptions :**

Exception	Parameter Name	Example value	Explanation
	name	" "	If the parameter is empty or missing

## Autocompletion for street

**URL :** <http://geoservices.irisnet.be/localization/Rest/Localize/getStreetAutoCompletion>

**Params :**

Parameter Name	Example
address	arts
shortModeActive	true or false
language	fr or nl or <empty>

Complete example:

<http://geoservices.irisnet.be/localization/Rest/Localize/getPoliceNumberAutoCompletion?&language=fr&address=arts&shortModeActive=true>

**Exceptions :**

Exception	Parameter Name	Example value	Explanation
	name	" "	If the parameter is empty or missing

## 4. Search for CrossRoads functions

These functions find an intersection of two roads (Public Ways) identified by their IDs or by their names.

### Get Crossroads

**URL :** <http://geoservices.irisnet.be/localization/Rest/Localize/getCrossRoad>

**Params :**

Parameter Name	Example
PW_Id1	
PW_Id2	

*OR*

Parameter Name	Example
GW_Id1	
GW_Id2	

*OR*

Parameter Name	Example
streetName1	avenue des arts
streetName2	rue joseph II

Complete example:

[http://geoservices.irisnet.be/localization/Rest/Localize/getCrossRoad?streetName1=avenue des arts&streetName2=rue joseph II&callback=jQuery191018259199608198373\\_1426259929890](http://geoservices.irisnet.be/localization/Rest/Localize/getCrossRoad?streetName1=avenue des arts&streetName2=rue joseph II&callback=jQuery191018259199608198373_1426259929890)

Exceptions :

Exception	Parameter Name	Example value	Explanation
	name	" "	If the parameter is empty or missing

## 5. Example pages

These pages help you to see what's the result of a call to a function.

### Normalisation

Single : <http://geoservices.irisnet.be/localization/testNormalize.html>

Massive : <http://geoservices.irisnet.be/localization/form.html>

### Search for Address

Search page : <http://geoservices.irisnet.be/localization/index.html>

With map : <http://geoservices.irisnet.be/localization/searchAddress.html>

### Reverse Geocoding

[http://geoservices.irisnet.be/localization/reverse\\_geocoding.html](http://geoservices.irisnet.be/localization/reverse_geocoding.html)

### Auto-completion

<http://service.gis.irisnet.be/localization/StreetAutoComplete.html>

<http://service.gis.irisnet.be/localization/PoliceNumberAutoComplete.html>

### Search for Crossroads

<http://geoservices.irisnet.be/localization/searchCrossRoad.html>