

Geolocation
service

Access

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1. General overview

1.1 Information on the drafting of service documentation

Title of service documentation: Geolocation service – Access

Reference date: 26/06/2026

Contact: Paradigm

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Website: <https://datastore.brussels/web/contact>

Languages of product specifications: French, Dutch

Distribution format: PDF

Writing standard: the service documentation is written according to the ISO 19131 standard.

1.2 Terminology and definitions

In the context of this documentation, the following definitions apply.

Object and object type

An object is an abstraction of real-world phenomena represented in the dataset.

An object type is a set of **objects** characterised by identical **attributes**.

Regional address register

The Brussels Region **Address Register** is maintained by Paradigm and established by the cooperation agreement of 17 July 2019 between the Federal State and the Regions, as published on 18 September 2022 in the Belgian Official Gazette.

1.3 Useful abbreviations

ADNC: Former address identifier, notably returned by the [former geolocation service](#)

API: Application Programming Interface

BeSt Address: Belgian Street Addresses

M7: Former street name identifier, notably returned by the [former geolocation service](#)

NIS: former National Institute of Statistics, now Statbel

1.4 Norms

ISO 19131 : ISO norm which defines the specifications of data products

1.5 Informal description of the service

The functionalities described in these specifications make it possible to identify one or more specific addresses, street names, or municipalities included in the regional address register. The returned objects comply with the BeSt Address model or its extended version, BeSt extended.

1.6 Namespaces used

best : <http://fsb.belgium.be/data/common>

ext : <https://databrussels.be/namespaces/extendedBeSt/2.0/extendedBeSt.xsd>

geo : <https://databrussels.be/namespaces/geocodingService/2.0/GeocodageResponse.xsd>

gml : <http://www.opengis.net/gml>

urbis : <https://databrussels.be/namespaces/UrbIS/1.0/UrbIS.xsd>

2. Service identification

2.1 Title

Geolocation service – Access

2.2 Version

Service version identifier: 2.0

A new version is released every time there is a change that is not backwards-compatible, both in terms of the data model returned and in terms of the API methods described here.

In addition, a new, transparent version can be released on an ad hoc basis, even in the absence of any changes that are not backwards-compatible.

2.3 Description

The functionalities described in these specifications allow one or more specific addresses, street names, or municipalities included in the regional address register to be identified. The returned objects comply with the BeSt Address model or its extended version, BeSt extended.

3. Request content and structure

The service described in this document supports structured queries on three types of objects: addresses, street names, and municipalities.

The following structured searches are available for **addresses**:

- [Address search using its BeSt identifier](#);
- [Address search using its BeSt identifier and version identifier](#);
- [Address search using its ADNC identifier](#);
- [Address search by street name](#);
- [Box number search using the parent address](#).

The following structured searches are available for **street names**:

- [Street name search using its BeSt identifier](#);
- [Street name search using its M7 identifier](#);
- [Street name search by municipality](#).

The following structured searches are available for **municipalities**:

- [Municipality search using its BeSt identifier](#);
- [Municipality search using its NIS code](#);
- [Municipality search by name](#).

3.1 Address search using its BeSt identifier

Méthode	Address search using its BeSt identifier
API	/api/v2/brussels/addresses/{identifier}
Définition de la méthode	Method for identifying an address using a BeSt identifier.
Réponse	Returns a street name compliant with the selected model using the parameter referred to in section 3.1.1.2.

3.1.1 Parameters

3.1.1.1 BeSt identifier of the address

Nom du paramètre	identifier
Description du paramètre	BeSt identifier of the address
Obligatoire	Oui

Domaine de valeurs acceptées	Texte
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3.1.1.2 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Address
BeSt	Returns an object of type best:AddressType

3.2 Address search using its BeSt identifier and version identifier

Méthode	Address search using its BeSt identifier and version identifier
API	/api/v2/brussels/addresses/{identifier}/versions/{version}
Définition de la méthode	Method for searching for an address using a BeSt identifier and a version.
Réponse	Returns an address compliant with the selected model using the parameter referred to in section 3.2.1.3.

3.2.1 Parameters

3.2.1.1 BeSt identifier of the address

Nom du paramètre	identifier
Description du paramètre	BeSt identifier of the address
Obligatoire	Oui
Domaine de valeurs acceptées	Texte

3.2.1.2 BeSt version of the address

Nom du paramètre	version
Description du paramètre	BeSt version of the address
Obligatoire	Oui

Domaine de valeurs acceptées	Texte
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3.2.1.3 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Address
BeSt	Returns an object of type best:AddressType

3.3 Address search using its ADNC identifier

Méthode	Address search using its ADNC identifier
API	/api/v2/brussels/addresses/adnc/{adncID}
Définition de la méthode	Method for searching for an address using a BeSt identifier and a version.
Réponse	Returns an address compliant with the selected model using the parameter referred to in section 3.3.1.2.

3.3.1 Parameters

3.3.1.1 BeSt identifier of the address

Nom du paramètre	identifier
Description du paramètre	BeSt identifier of the address
Obligatoire	Oui
Domaine de valeurs acceptées	Texte

3.3.1.2 Response model

Parameter name	model
Parameter description	Response model

Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Address
BeSt	Returns an object of type best:AddressType

3.4 Address search using the street name

Méthode	Address search using the street name
API	/api/v2/brussels/addresses
Définition de la méthode	Method for identifying one or more addresses using the identifier of their street name and, optionally, a fragment of their house number.
Réponse	Returns one or more addresses compliant with the selected model using the parameter referred to in section 3.4.1.6.

3.4.1 Parameters

3.4.1.1 BeSt identifier of the street name

Nom du paramètre	StreetNameIdentifier
Description du paramètre	BeSt identifier of the street name
Obligatoire	Oui
Domaine de valeurs acceptées	Texte

3.4.1.2 Fragment of the requested house number

Parameter name	SearchValue
Parameter description	Fragment of the requested house number
Compulsory	Yes
Accepted value range	Text

3.4.1.3 Page

Parameter name	page
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Parameter description	Number of the returned results page
Compulsory	No
Accepted value range	Positive integer
Default value	1

3.4.1.4 Limite

Parameter name	limit
Parameter description	Maximum number of results returned per page (maximum 50)
Compulsory	No
Accepted value range	Positive integer
Default value	10

3.4.1.5 Sorting

Parameter name	sortBy
Parameter description	Attribute used to sort the returned objects
Compulsory	No
Accepted value range	
Value	Description
identifierAscending	Identifier (ordre croissant)
identifierDescending	Identifier (ordre décroissant)
houseNumberAscending	House number (ordre croissant)
HouseNumberDescending	House number (ordre décroissant)

3.4.1.6 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Address
BeSt	Returns an object of type best:AddressType

3.5 Box number search using the parent address

Méthode	Box number search using the parent address
API	/api/v2/brussels/addressBoxes
Définition de la méthode	Method for identifying one or more box numbers using the identifier of a parent address.
Réponse	Returns an address compliant with the selected model using the parameter referred to in section 3.5.1.6.

3.5.1 Parameters

3.5.1.1 BeSt identifier of the parent address

Nom du paramètre	parentIdentifier
Description du paramètre	BeSt identifier of the parent address
Obligatoire	Oui
Domaine de valeurs acceptées	Texte

3.5.1.2 Fragment of the requested house number

Parameter name	SearchValue
Parameter description	Fragment of the requested house number
Compulsory	Yes
Accepted value range	Text

3.5.1.3 Page

Parameter name	page
Parameter description	Number of the returned results page
Compulsory	No
Accepted value range	Positive integer
Default value	1

3.5.1.4 Limite

Parameter name	limit
----------------	-------

Parameter description	Maximum number of results returned per page (maximum 50)
Compulsory	No
Accepted value range	Positive integer
Default value	10

3.5.1.5 Sorting

Parameter name	sortBy
Parameter description	Attribute used to sort the returned objects
Compulsory	No
Accepted value range	
Value	Description
identifierAscending	Identifier (ordre croissant)
identifierDescending	Identifier (ordre décroissant)
boxNumberAscending	Box number (ordre croissant)
boxNumberDescending	Box number (ordre décroissant)

3.5.1.6 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Address
BeSt	Returns an object of type best:AddressType

3.6 Street name search using its BeSt identifier

Méthode	Street name search using its BeSt identifier
API	/api/v2/brussels/streetnames/{identifier}
Définition de la méthode	Method for identifying a street name using a municipality's BeSt identifier.

Réponse	Returns a street name compliant with the selected model using the parameter referred to in section 3.6.1.2.
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3.6.1 Parameters

3.6.1.1 BeSt identifier of the street name

Parameter name	identifier
Parameter description	BeSt identifier of the street name
Compulsory	Oui
Accepted value range	Texte

3.6.1.2 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:StreetName
BeSt	Returns an object of type best:StreetNameType

3.7 Street name search using its M7 identifier

Méthode	Street name search using its M7 identifier
API	/api/v2/brussels/streetnames/oldTechnicalID/{identifier}
Définition de la méthode	Method for identifying a street name using a street's M7 identifier.
Réponse	Returns a street name compliant with the selected model using the parameter referred to in section 3.7.1.2.

3.7.1 Parameters

3.7.1.1 M7 identifier of the street name

Parameter name	id
Parameter description	M7 identifier of the street name
Compulsory	Oui
Accepted value range	Texte

3.7.1.2 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:StreetName
BeSt	Returns an object of type best:StreetNameType

3.8 Street name search using the municipality

Méthode	Street name search using the municipality
API	/api/v2/brussels/streetNames
Définition de la méthode	Method for identifying street names using a municipality identifier.
Réponse	Returns a relevant object compliant with the selected model using the parameter referred to in section 3.8.1.7.

3.8.1 Parameters

3.8.1.1 Search language

Parameter name	searchLanguage
Parameter description	Search language
Compulsory	Yes
Accepted value range	
Value	Name

fr	French
nl	Dutch

3.8.1.1 BeSt identifier of the municipality

Nom du paramètre	MunicipalityIdentifier
Description du paramètre	BeSt identifier of the municipality
Obligatoire	Oui
Domaine de valeurs acceptées	Texte

3.8.1.2 Street name

Parameter name	SearchValue
Parameter description	Street name
Compulsory	Yes
Accepted value range	Text

3.8.1.3 Page

Parameter name	page
Parameter description	Number of the returned results page
Compulsory	No
Accepted value range	Positive integer
Default value	1

3.8.1.4 Limite

Parameter name	limit
Parameter description	Maximum number of results returned per page (maximum 50)
Compulsory	No
Accepted value range	Positive integer
Default value	10

3.8.1.5 Sorting

Parameter name	sortBy
Parameter description	Attribute used to sort the returned objects

Compulsory	No
Accepted value range	
Value	Description
identifierAscending	Identifier (ordre croissant)
identifierDescending	Identifier (ordre décroissant)
streetNameFrenchAscending	Street name in french (ordre croissant)
streetNameFrenchDescending	Street name in french (ordre décroissant)
streetNameDutchAscending	Street name in dutch (ordre croissant)
streetNameDutchDescending	Street name in dutch (ordre décroissant)

3.8.1.6 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:StreetName
BeSt	Returns an object of type best:StreetNameType

3.9 Municipality search using its BeSt identifier

Méthode	Municipality search using its BeSt identifier
API	/api/v2/brussels/municipalities/{identifiant}
Définition de la méthode	Méthode pour identifier une commune à partir d'un identifiant BeSt.
Réponse	Renvoie un nom de rue conforme au modèle sélectionné au moyen du paramètre visé au point 3.9.1.2.

3.9.1 Parameters

3.9.1.1 BeSt identifier of the municipality

Parameter name	identifier
Parameter description	BeSt identifier of the municipality
Compulsory	Oui
Accepted value range	Texte

3.9.1.2 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Municipality
BeSt	Returns an object of type best:MunicipalityType

3.10 Municipality search using its NIS code

Méthode	Municipality search using its NIS code
API	/api/v2/brussels/municipalities/nis/{nisCode}
Définition de la méthode	Method for identifying a municipality using a NIS identifier.
Réponse	Renvoie un nom de rue conforme au modèle sélectionné au moyen du paramètre visé au point 3.10.1.2.

3.10.1 Parameters

3.10.1.1 NIS code of the municipality

Parameter name	nisCode
Parameter description	NIS code of the municipality
Compulsory	Oui
Accepted value range	Texte

3.10.1.2 Response model

Parameter name	model
Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Municipality
BeSt	Returns an object of type best:MunicipalityType

3.11 Municipality search using its name

Méthode	Municipality search using its name
API	/api/v2/brussels/municipalities
Définition de la méthode	Method for identifying municipalities using unspecified parameters.
Réponse	Returns a relevant object compliant with the selected model using the parameter referred to in section 3.11.1.6.

3.11.1 Parameters

3.11.1.1 Search language

Parameter name	searchLanguage
Parameter description	Search language
Compulsory	Yes
Accepted value range	
Value	Name
fr	French
nl	Dutch

3.11.1.2 Municipality name

Parameter name	SearchValue
Parameter description	Municipality name

Compulsory	Yes
Accepted value range	Text

3.11.1.3 Page

Parameter name	page
Parameter description	Number of the returned results page
Compulsory	No
Accepted value range	Positive integer
Default value	1

3.11.1.4 Limite

Parameter name	limit
Parameter description	Maximum number of results returned per page (maximum 50)
Compulsory	No
Accepted value range	Positive integer
Default value	10

3.11.1.5 Sorting

Parameter name	sortBy
Parameter description	Attribute used to sort the returned objects
Compulsory	No
Accepted value range	
Value	Description
identifierAscending	Identifier (ordre croissant)
identifierDescending	Identifier (ordre décroissant)
streetNameFrenchAscending	Municipality in french (ordre croissant)
streetNameFrenchDescending	Municipality in french (ordre décroissant)
streetNameDutchAscending	Municipality in dutch (ordre croissant)
streetNameDutchDescending	Municipality in dutch (ordre décroissant)

3.11.1.6 Response model

Parameter name	model
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Parameter description	Response model
Compulsory	Yes
Accepted value range	
Value	Description
BeSt extended	Returns an object of type ext:Municipality
BeSt	Returns an object of type best:MunicipalityType

4. Response models

The geolocation service returns responses conforming to the BeSt Address model. It also allows responses to be returned in BeSt extended format, an extended version of the BeSt Address model. By default, responses are returned in the BeSt extended format.

4.1 BeSt Address response model

The technical specifications of the BeSt Address model (including its extended version) are as follows: [Brussels address register](#).

4.2 Response encoding

The characters are encoded in UTF-8.

5. Metadata

Metadata are available to view in full at the following address:
<https://datastore.brussels/web/data/service/ddec077a-3285-11f1-afcf-00090ffe0001#access>.

6. Product updates

The service is updated whenever necessary.