



# **WFS INSPIRE Services**

## ***CADASTRALPARCELS (CP)***

Version 1.0

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1	Description of the WFS service for CP theme .....	3
2	Metadata of service .....	3
3	Technical Specifications of the service WFS.....	3
4	Restrictions for the service WFS .....	4
5	The WFS service request .....	5
5.1	GetFeature .....	5
5.2	StoredQueries .....	5
5.3	DescribeFeatureType .....	7
6	Reference systems compatible with WFS services .....	7
7	Examples of requests to the service .....	8



## 1 Description of the WFS service for CP theme

This document contains basic information about the INSPIRE WFS service for the theme CP (CadastralParcels) and various ways of download with support from diverse reference systems, limitations and examples of consultation.

The description of this data set is defined in the document "Description of the Data Set".

## 2 Metadata of service

The metadata of the service are included in the service of catalogue of the IDEE (Spanish Spatial data infrastructure).

[http://www.idee.es/csw-inspire-idee/srv/spa/csw?SERVICE=CSW&VERSION=2.0.2&REQUEST=GetRecordById&outputSchema=http://www.isotc211.org/2005/gmd&ElementSetName=full&ID=ES\\_SDGC\\_CP\\_WFS](http://www.idee.es/csw-inspire-idee/srv/spa/csw?SERVICE=CSW&VERSION=2.0.2&REQUEST=GetRecordById&outputSchema=http://www.isotc211.org/2005/gmd&ElementSetName=full&ID=ES_SDGC_CP_WFS)

The main features of the WFS download service, included in this metadata are:

- **Completeness:** The set of data that can be downloaded from this service is complete for 95% of the territory of Spain that it is under the responsibility of the DG of the cadastre (the whole of Spanish territory except Basque country and Navarre).
- **Spatial resolution:** the scales of production are, for urban areas, 1: 1000 or greater and rustic areas 1:5000 or higher.
- **Conditions of access and use:** access to this service shall be carried out under a license to be obtained automatically, and it implies the knowledge and acceptance of the requirements and conditions of the license.
- **Update process:** the dataset offered in this WFS service is continuously updated.

## 3 Technical Specifications of the service WFS

Web services will be applied in accordance with the implementing rules of INSPIRE. Web services provide the information as files in format GML version 3.2.1

Data and services are in accordance with the following specifications:

- [Draft Implementing Rules for Download Services version 3.1](#)
- [INSPIRE Data Specification on Cadastral Parcels - Guidelines version 3.0.1](#)



The data are obtained directly from the General Directorate for Cadastre database, updated at the time of the invocation of the service.

The Compatible functions for the service WFS (Web Feature Service), are:

- GetFeature
- GetCapabilities
- DescribeFeatureType
- ListStoredQueries
- DescribeStoredQueries

OGC Especifications WFS 2.0.0

[http://portal.opengeospatial.org/files/?artifact\\_id=39967](http://portal.opengeospatial.org/files/?artifact_id=39967)

To connect to some applications it is necessary to indicate the version, including the requirements for GetCapabilities:

GETCAPABILITIES:

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=WFS&Version=2.0.0&request=GetCapabilities>

The XSD schema for cadastral parcels is found:

<http://inspire.ec.europa.eu/schemas/cp/3.0/CadastralParcels.xsd>

## 4 Restrictions for the service WFS

The WFS service is limited by the number of features and by extension.

Each type of feature has different limitations, since it contains a variety of size of space objects. There are 2 type of features for INSPIRE (CP) cadastral parcel:

- CP: CadastralZoning
- CP: CadastralParcel.

Limitations of the WFS service:

- CP:CadastralParcel. Search by box of 1 km<sup>2</sup> and 5.000 features.
- CP: CadastralZoning. Search by box of 25km<sup>2</sup> and 500 features.
- No se admiten consultas SQL en general



## 5 The WFS service request

The service supports various types of requests that are described below.

### 5.1 GetFeature

Mandatory parameters from **GetFeature**:

- Typenames:
  - CADASTRALPARCELS ó CP.CADASTRALPARCELS
  - CADASTRALZONING ó CP.CADASTRALZONING
- SrsName (Optional, if not specified it returns the data in the SRS that are stored on BD).
  - EPSG::25830
  - urn:ogc:def:crs:EPSG::25830
- BBOX
  - minimum X
  - minimum Y
  - maximum X
  - maximum Y

The call can be made with the following conditions:

- Call by a BBOX
- Call by predefined queries (StoredQueries)

Examples:

Example BBOX for CadastralParcel

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&request=getfeature&Typenames=cp.cadastralparcel&SRSname=EPSG::25830&bbox=233673,4015968,233761,4016008>

Example bbox for CadastralZoning

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&request=getfeature&Typenames=cp.cadastralzoning&SRSname=EPSG::25830&bbox=233673,4015968,233761,4016008>

### 5.2 StoredQueries

The service WFS of INSPIRE for the theme CP (CadastralParcels) supports storedQueries.

The list of compatible queries can be obtained with the call to request *listStoredQueries*.

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2.0.0&request=listStoredQueries>

For a description of a specific query stored the call would be as follows:

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2.0.0&request=describeStoredQueries&StoredQuery\\_id=GetZoning](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2.0.0&request=describeStoredQueries&StoredQuery_id=GetZoning)

In order to get the description of a particular StoredQuery the parameter describeStoredQueries is used and the identifier of the procedure described in the following table:

Query types:

Identifier	Description	Parameters	Description of parameters	Return value
GetZoning	Urban blocs and rural polygons	COD_ZONA (M) SRSNAME (O)	Urban Areas: 12 digits (bloc (5) + PCAT2(7))  Rural Areas: 9 digits (province, municip, sector, poligon)	CP:CadastralZoning
GetParcel	Cadastral parcel	REFCAT (M) SRSNAME (O)	Cadastral reference: 14 digits for urban and rural	CP:CadastralParcel
GetNeighbourParcel	Parcel + neighbour parcels	REFCAT (M) SRSNAME (O)	Cadastral reference: 14 digits for urban and rural	CP:CadastralParcel
GetParcelsByZoning	Urban blocs and rural polygons And the parcels contained in the area	COD_ZONA (M) SRSNAME (O)	Urban Areas: 12 digits (bloc (5) + PCAT2(7))  Rural Areas: 9 digits (province, municip, sector, polygon)	CP:CadastralParcel

(M) – Mandatory

(O) – Optional



Example of a request with StoredQuerye by cadastral reference:

CadastralZoning

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY\\_ID=GetZoning&cod\\_zona=41624TF3146S&srsname=EPSG::25830](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY_ID=GetZoning&cod_zona=41624TF3146S&srsname=EPSG::25830)

CadastralParcel

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY\\_ID=GetParcel&refcat=4162401TF3146S&srsname=EPSG::25830](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY_ID=GetParcel&refcat=4162401TF3146S&srsname=EPSG::25830)

### 5.3 DescribeFeatureType

The INSPIRE WFS for cadastral parcels (CP) uses DescribeFeatureType .

This request to the service shows the XSD schema with the contents of the layers. In accordance with the 2.0.0 version standard OGC WFS service.

DescribeFeatureType:

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=WFS&version=2.0.0&request=DescribeFeatureType&typenames=CP:CadastralParcel>

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=WFS&version=2.0.0&request=DescribeFeatureType&typenames=CP:CadastralZoning>

## 6 Reference systems compatible with WFS services

Reference systems	Parameter	EPSG code
Geographical coordinates WGS84	4326	EPSG:4326
Geographical coordinates ETRS89	4258	EPSG:4258
ETRS89 / UTM zone 29N	25829	EPSG:25829
ETRS89 / UTM zone 30N	25830	EPSG:25830
ETRS89 / UTM zone 31N	25831	EPSG:25831
Web Mercator	3785	EPSG:3785
Web Mercator	3857	EPSG:3857



## 7 Examples of requests to the service

Cadastral Parcel by BBOX.

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&request=getfeature&Typenames=cp.cadastralparcel&SRsname=EPSG::25830&bbox=233673,4015968,233761,4016008>

Cadastral Zoning by BBOX.

<http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&request=getfeature&Typenames=cp.cadastralzoning&SRsname=EPSG::25830&bbox=233673,4015968,233761,4016008>

Cadastral Parcel by cadastral reference.

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY\\_ID=GetParcel&refcat=3662001TF3136S&srsname=EPSG::25830](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY_ID=GetParcel&refcat=3662001TF3136S&srsname=EPSG::25830)

Cadastral Zoning by zone code.

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY\\_ID=GetZoning&cod\\_zona=41624TF3146S&srsname=EPSG::25830](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY_ID=GetZoning&cod_zona=41624TF3146S&srsname=EPSG::25830)

Cadastral Parcel, itself and adjacent parcels by cadastral reference.

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY\\_ID=GETNEIGHBOURPARCEL&refcat=3662001TF3136S&srsname=EPSG::25830](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY_ID=GETNEIGHBOURPARCEL&refcat=3662001TF3136S&srsname=EPSG::25830)

Cadastral Parcels of a zone by zone code.

[http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY\\_ID=Getparcelsbyzoning&cod\\_zona=36620TF3136S&srsname=EPSG::25830](http://ovc.catastro.meh.es/INSPIRE/wfsCP.aspx?service=wfs&version=2&request=getfeature&STOREDQUERY_ID=Getparcelsbyzoning&cod_zona=36620TF3136S&srsname=EPSG::25830)