



CZECH OFFICE FOR SURVEYING, MAPPING
AND CADASTRE

CADASTRE OF REAL ESTATES
CENTRAL DATABASE

INSPIRE Directive

Information about services published for INSPIRE infrastructure for themes Cadastral parcels, Addresses, Administrative units and Buildings

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Description: This document contains a brief description of services harmonised for INSPIRE infrastructure. It includes information about WFS, Atom and WMS services.

Language: Eng

Approved by: Ing. Petr Souček, Ph. D

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1 | INSPIRE theme Cadastral parcels

Provided spatial object types: CadastralParcel, CadastralBoundary, CadastralZoning

Metadata of the data:

https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_SERIES-MD_CP

Web Feature Service (WFS)

Capabilities: <https://services.cuzk.cz/wfs/inspire-cp-wfs.asp?service=WFS&request=GetCapabilities&version=2.0.0>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WFS-MD_CP

Limitations: limited by max. number of features per one request and maximum requested area – more information: <https://services.cuzk.cz/wfs/inspire-cp-wfs.asp?service=WFS&request=GetServiceProperties&version=2.0.0>

Description:

The service supports OGC WFS 2.0 standard¹ (Simple and Basic WFS) and INSPIRE technical guideline for download services². Supported conformance classes are indicated in capabilities. StoredQueries are described in English in a describeStoredQueries response. From INSPIRE point of view it supports direct access and access to pre-defined datasets, too. Pre-defined datasets are available only in EPSG:4258 and EPSG:5514. Each pre-defined dataset covers one cadastral zoning. For a download of the pre-defined dataset you need to know cadastral zoning codes. The cadastral zoning codes are listed in a codelist of cadastral zonings and cadastral branch offices (https://www.cuzk.cz/CUZK/media/CiselnyISKN/SC_SEZNAMKUKRA_DOTAZ/SC_SEZNAMKUKRA_DOTAZ.zip?ext=.zip – a KU_KOD attribute contains cadastral zoning codes).

There is a brief documentation of the service for Czech users: <https://services.cuzk.cz/doc/inspire-cp-download.pdf>.

Atom service

Service feed: <https://atom.cuzk.cz/CP/CP.xml>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_ATOM-MD_CP

Description:

It is implemented according to the INSPIRE Technical Guideline for download services. Pre-defined datasets are provided in coordinate systems EPSG:4258 and EPSG:5514. One pre-defined dataset covers one cadastral zoning.

¹ OpenGIS Web Feature Service 2.0 Interface Standard (also ISO 19142)

² Technical Guidance for the implementation of INSPIRE Download Services (verze 3.1)

Pre-defined data sets can be also downloaded directly from this web site:

<https://services.cuzk.cz/gml/inspire/cp/epsg-4258/>.

Web Map Service (WMS)

Capabilities: <https://services.cuzk.cz/wms/inspire-cp-wms.asp?service=WMS&request=GetCapabilities>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WMS-MD_CP

Description:

It is compatible with INSPIRE technical guideline for view services³ and OGC WMS 1.3⁴. Provided layers are CP.CadastralParcel, CP.CadastralZoning and CP.CadastralBoundary, which are required by INSPIRE. An overview layer (00.OverviewMap) with administrative boundaries has been added. All layers are limited by a scale range.

³ Technical Guidance for the implementation of INSPIRE View Services (v. 3.11)

⁴ OpenGIS Web Map Service (WMS) Implementation Specification

2 | INSPIRE theme Addresses

Provided spatial object types: Addresses, AddressAreaName, AdminUnitName, PostalDescriptor, ThoroughfareName

Metadata of the data:

https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_SERIES-MD_AD

Web Feature Service (WFS)

Capabilities: <https://services.cuzk.cz/wfs/inspire-ad-wfs.asp?service=WFS&request=GetCapabilities&version=2.0.0>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WFS-MD_AD

Limitations: limited by max. number of features per one request and maximum requested area – more information: <https://services.cuzk.cz/wfs/inspire-ad-wfs.asp?service=WFS&request=GetServiceProperties&version=2.0.0>

Description:

The service supports OGC WFS 2.0 standard⁵ (Simple and Basic WFS) and INSPIRE technical guideline for download services⁶. Supported conformance classes are indicated in capabilities. StoredQueries are described in English in a describeStoredQueries response. From INSPIRE point of view it supports direct access and access to pre-defined datasets, too. Pre-defined datasets are available only in EPSG:4258 and EPSG:5514. Each pre-defined dataset covers one municipality. For a download of the pre-defined dataset you need to know codes of municipalities. The municipality codes are listed in a codelist of lower municipalities (https://www.cuzk.cz/CUZK/media/CiselnikyISUI/UI_OBEC/UI_OBEC.zip?ext=.zip – a KOD attribute contains municipality codes).

There is a brief documentation of the service for Czech users: <https://services.cuzk.cz/doc/inspire-ad-download.pdf>.

Atom service

Service feed: <https://atom.cuzk.cz/AD/AD.xml>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_ATOM-MD_AD

Description:

It is implemented according to the INSPIRE Technical Guideline for download services. Pre-defined datasets are provided in coordinate systems EPSG:4258 and EPSG:5514. One pre-defined dataset covers one municipality.

⁵ OpenGIS Web Feature Service 2.0 Interface Standard (also ISO 19142)

⁶ Technical Guidance for the implementation of INSPIRE Download Services (verze 3.1)

Pre-defined datasets can be also downloaded directly from this web site:

<https://services.cuzk.cz/gml/inspire/ad/epsg-4258/>.

Web Map Service (WMS)

Capabilities: <https://services.cuzk.cz/wms/inspire-ad-wms.asp?service=WMS&request=GetCapabilities>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WMS-MD_AD

Description:

It is compatible with INSPIRE technical guideline for view services⁷ and OGC WMS 1.3⁸. Beyond INSPIRE there are some additional layers. All layers are limited by a scale range.

⁷ Technical Guidance for the implementation of INSPIRE View Services (v. 3.11)

⁸ OpenGIS Web Map Service (WMS) Implementation Specification

3 | INSPIRE theme Administrative units

Provided spatial object types: AdministrativeBoundary, AdministrativeUnit

Metadata of the data:

https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_SERIES-MD_AU

Web Feature Service (WFS)

Capabilities: <https://services.cuzk.cz/wfs/inspire-au-wfs.asp?service=WFS&request=GetCapabilities&version=2.0.0>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WFS-MD_AU

Limitations: limited by max. number of features per one request and maximum requested area – more information: <https://services.cuzk.cz/wfs/inspire-au-wfs.asp?service=WFS&request=GetServiceProperties&version=2.0.0>

Description:

The service supports OGC WFS 2.0 standard⁹ (Simple and Basic WFS) and INSPIRE technical guideline for download services¹⁰. Supported conformance classes are indicated in capabilities. StoredQueries are described in English in a describeStoredQueries response. From INSPIRE point of view it supports direct access and access to pre-defined datasets, too. Pre-defined dataset is available only in EPSG:4258 and EPSG:5514. In this case all data are represented by one pre-defined dataset.

There is a brief documentation of the service for Czech users: <https://services.cuzk.cz/doc/inspire-au-download.pdf>.

Atom service

Service feed: <https://atom.cuzk.cz/AU/AU.xml>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_ATOM-MD_AU

Description:

It is implemented according to the INSPIRE Technical Guideline for download services. Pre-defined dataset is provided in coordinate systems EPSG:4258 and EPSG:5514.

Pre-defined dataset can be also downloaded directly from this web site:

[https://services.cuzk.cz/gml/inspire/au/epsg-4258/.](https://services.cuzk.cz/gml/inspire/au/epsg-4258/)

⁹ OpenGIS Web Feature Service 2.0 Interface Standard (also ISO 19142)

¹⁰ Technical Guidance for the implementation of INSPIRE Download Services (verze 3.1)

WMS

Capabilities: <https://services.cuzk.cz/wms/inspire-au-wms.asp?service=WMS&request=GetCapabilities>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WMS-MD_AU

Description: It is compatible with INSPIRE technical guideline¹¹ for view services and OGC WMS 1.3¹². Beyond INSPIRE there are some additional layers. All layers are limited by a scale range regarding to an order of administrative units.

¹¹ Technical Guidance for the implementation of INSPIRE View Services (v. 3.11)

¹² OpenGIS Web Map Service (WMS) Implementation Specification

4 | INSPIRE theme Buildings

Provided spatial object types: Building, BuildingPart

(Features contain attributes from BuildingsExtended2D application schema. XSD for this application schema is not endorsed, yet. We harmonised this theme in 2015, therefore we were forced to create this XSD and it is accessible here: <https://services.cuzk.cz/xsd/inspire/bu-ext2d/4.0/BuildingsExtended2D.xsd>.)

Metadata of the data:

https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_SERIES-MD_BU

Web Feature Service (WFS)

Capabilities: <https://services.cuzk.cz/wfs/inspire-bu-wfs.asp?service=WFS&request=GetCapabilities&version=2.0.0>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WFS-MD_BU

Limitations: limited by max. number of features per one request and maximum requested area – more information: <https://services.cuzk.cz/wfs/inspire-bu-wfs.asp?service=WFS&request=GetServiceProperties&version=2.0.0>

Description:

The service supports OGC WFS 2.0 standard¹³ (Simple and Basic WFS) and INSPIRE technical guideline for download services¹⁴. Supported conformance classes are indicated in capabilities. StoredQueries are described in English in a describeStoredQueries response. From INSPIRE point of view it supports direct access and access to pre-defined datasets, too. Pre-defined datasets are available only in EPSG:4258 and EPSG:5514. Each pre-defined dataset covers one municipality. For a download of the pre-defined datasets you need to know codes of municipalities. The municipality codes are listed in a codelist of lower municipalities (https://www.cuzk.cz/CUZK/media/CiselnikyISUI/UI_OBEC/UI_OBEC.zip?ext=.zip – a KOD attribute contains municipality codes).

Atom service

Service feed: <https://atom.cuzk.cz/BU/BU.xml>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_ATOM-MD_BU

Description:

It is implemented according to the INSPIRE Technical Guideline for download services. Pre-defined datasets are provided in coordinate systems EPSG:4258 and EPSG:5514.

Pre-defined datasets can be also downloaded directly from this web site:

<https://services.cuzk.cz/gml/inspire/bu/epsg-4258/>.

¹³ OpenGIS Web Feature Service 2.0 Interface Standard (also ISO 19142)

¹⁴ Technical Guidance for the implementation of INSPIRE Download Services (verze 3.1)

Web Map Service (WMS)

Capabilities: <https://services.cuzk.cz/wms/inspire-bu-wms.asp?service=WMS&request=GetCapabilities>

Metadata: https://geoportal.cuzk.cz/getHTML.aspx?mode=Metadata&fnc=getRecord&identifierid=CZ-00025712-CUZK_WMS-MD_BU

Description: It is compatible with INSPIRE technical guideline¹⁵ for view services and OGC WMS 1.3¹⁶. Provided layers are BU.Building and BU.BuildingPart, which are required by INSPIRE, and we have added overview layer (00.OverviewMap) with administrative boundaries and BU.BuildingText with titles of buildings. All layers are limited by a scale range.

¹⁵ Technical Guidance for the implementation of INSPIRE View Services (v. 3.11)

¹⁶ OpenGIS Web Map Service (WMS) Implementation Specification