

# Circular Economy Ontology Network (CEON) - Location Module

## Metadata

**IRI**

<http://w3id.org/CEON/ontology/location/>

**Title**

Circular Economy Ontology Network (CEON) - Location Module

**Publisher**

Onto-DESIDE

**Creator**

Huanyu Li

**Contributor**

Eva Blomqvist

**Date Created**

2025-03-19

**Date Issued**

2025-06-30

**License**

<https://creativecommons.org/licenses/by/4.0/>

**Version Iri**

<http://w3id.org/CEON/ontology/location/0.2/>

**Version Info**

0.2

**Prior Version**

0.1

**Preferred Namespace Prefix**

ceon-location

**Preferred Namespace Uri**

<http://w3id.org/CEON/ontology/location/>

**Description**

A module the CEON ontology network, defining aspects of the location concept.

**Covers Requirements**

Covers the following requirements from Onto-DESIDE D3.2: CE3-3, C3-2, C13-4, E2-12.

## Classes

Location <sup>C</sup>	
<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/location/Location">http://w3id.org/CEON/ontology/location/Location</a>
<b>Sub Class Of</b>	<a href="#">Geometry<sup>C</sup></a>
<b>In Range Of</b>	<a href="#">hasLocation<sup>op</sup></a>

## Geometry<sup>C</sup>

<b>IRI</b>	<a href="http://www.opengis.net/ont/geosparql#Geometry">http://www.opengis.net/ont/geosparql#Geometry</a>
<b>Description</b>	A coherent set of direct positions in space. The positions are held within a Spatial Reference System (SRS).
<b>In Domain Of</b>	<a href="#">as GML</a> <sup>dp</sup> <a href="#">as GeoJSON</a> <sup>dp</sup> <a href="#">as WKT</a> <sup>dp</sup>
<b>Super Class Of</b>	<a href="#">Location</a> <sup>C</sup>

## Object Properties

### has location<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasLocation">http://w3id.org/CE0N/ontology/location/hasLocation</a>
<b>Range</b>	<a href="#">Location</a> <sup>C</sup>

## Datatype Properties

### has city<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasCity">http://w3id.org/CE0N/ontology/location/hasCity</a>
<b>Range</b>	<a href="#">xsd:string</a>

### has country<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasCountry">http://w3id.org/CE0N/ontology/location/hasCountry</a>
<b>Range</b>	<a href="#">xsd:string</a>

### has country code<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasCountryCode">http://w3id.org/CE0N/ontology/location/hasCountryCode</a>
<b>Range</b>	<a href="#">xsd:string</a>

### has global location number<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/location/hasGlobalLocationNumber">http://w3id.org/CE0N/ontology/location/hasGlobalLocationNumber</a>
<b>Range</b>	<a href="#">xsd:string</a>

has postal code<sup>dp</sup>

**IRI** <http://w3id.org/CE0N/ontology/location/hasPostalCode>

**Range** [xsd:string](#)

has street address<sup>dp</sup>

**IRI** <http://w3id.org/CE0N/ontology/location/hasStreetAddress>

**Range** [xsd:string](#)

as GML<sup>dp</sup>

**IRI** <http://www.opengis.net/ont/geosparql#asGML>

**Is Defined By** <http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal>

**Description** The GML serialization of a Geometry.

**Domain** [Geometry<sup>c</sup>](#)

**Range** [geo:gmlLiteral](#)

as GeoJSON<sup>dp</sup>

**IRI** <http://www.opengis.net/ont/geosparql#asGeoJSON>

**Is Defined By** <http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal>

**Description** The GeoJSON serialization of a Geometry.

**Domain** [Geometry<sup>c</sup>](#)

**Range** [geo:geoJSONLiteral](#)

as WKT<sup>dp</sup>

**IRI** <http://www.opengis.net/ont/geosparql#asWKT>

**Is Defined By** <http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal>

**Description** The WKT serialization of a Geometry.

**Domain** [Geometry<sup>c</sup>](#)

**Range** [geo:wktLiteral](#)

lat<sup>dp</sup>

**IRI** [http://www.w3.org/2003/01/geo/wgs84\\_pos#lat](http://www.w3.org/2003/01/geo/wgs84_pos#lat)

long<sup>dp</sup>

IRI [http://www.w3.org/2003/01/geo/wgs84\\_pos#long](http://www.w3.org/2003/01/geo/wgs84_pos#long)

## Annotation Properties

contributor<sup>ap</sup>

IRI <http://purl.org/dc/terms/contributor>

created<sup>ap</sup>

IRI <http://purl.org/dc/terms/created>

creator<sup>ap</sup>

IRI <http://purl.org/dc/terms/creator>

description<sup>ap</sup>

IRI <http://purl.org/dc/terms/description>

issued<sup>ap</sup>

IRI <http://purl.org/dc/terms/issued>

license<sup>ap</sup>

IRI <http://purl.org/dc/terms/license>

publisher<sup>ap</sup>

IRI <http://purl.org/dc/terms/publisher>

title<sup>ap</sup>

IRI <http://purl.org/dc/terms/title>

preferred namespace prefix<sup>ap</sup>

IRI <http://purl.org/vocab/vann/preferredNamespacePrefix>

preferred namespace uri <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespaceUri">http://purl.org/vocab/vann/preferredNamespaceUri</a>
covers requirements <sup>ap</sup>	
IRI	<a href="http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements</a>
definition <sup>ap</sup>	
IRI	<a href="http://www.w3.org/2004/02/skos/core#definition">http://www.w3.org/2004/02/skos/core#definition</a>
pref label <sup>ap</sup>	
IRI	<a href="http://www.w3.org/2004/02/skos/core#prefLabel">http://www.w3.org/2004/02/skos/core#prefLabel</a>

## Namespaces

:	<a href="http://w3id.org/CEON/ontology/location/">http://w3id.org/CEON/ontology/location/</a>
dcterms	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
geo	<a href="http://www.opengis.net/ont/geosparql#">http://www.opengis.net/ont/geosparql#</a>
odp	<a href="http://www.ontologydesignpatterns.org/schemas/cannotationschema.owl#">http://www.ontologydesignpatterns.org/schemas/cannotationschema.owl#</a>
owl	<a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</a>
prov	<a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#</a>
rdf	<a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
rdfs	<a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
skos	<a href="http://www.w3.org/2004/02/skos/core#">http://www.w3.org/2004/02/skos/core#</a>
vann	<a href="http://purl.org/vocab/vann/">http://purl.org/vocab/vann/</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#</a>

## Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties