

Circular Economy Ontology Network (CEON) - Actor ODP

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Actor ODP

Creator

Eva Blomqvist

Contributor

Huanyu Li

Mikael Lindecrantz

Robin Keskisärkkä

Date Created

2023-03-17

License

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

Version Iri

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

Version Info

0.2

Preferred Namespace Prefix

actorODP

Preferred Namespace Uri

<http://w3id.org/CEON/ontoloy/actorODP/>

Description

A core ODP of the CEON ontology network, defining aspects of the actor concept.

Covers Requirements

Covers the following requirements from Onto-DESIDE D3.1: CVN-Process-3, CVN-Actor-1,4,6,7, CVN-Competency-3, CVN-Information-4, C11-1, C11-3, E1-6,6,6,9, E4-10

Classes

Actor ^c	
IRI	http://w3id.org/CEON/ontology/actorODP/Actor
In Domain Of	actorType ^{op} hasActorLocation ^{op}
In Range Of	capabilityOf ^{op} participatingActor ^{op}

Actor Type ^c	
IRI	http://w3id.org/CEON/ontology/actorODP/ActorType
In Range Of	actorType ^{op}

Capability^c

IRI	http://w3id.org/CEON/ontology/actor0DP/Capability
<u>In Domain Of</u>	capabilityOf ^{op} capabilityProperty ^{op}
<u>In Range Of</u>	basedOnCapability ^{op}

Collaboration Participation^c

IRI	http://w3id.org/CEON/ontology/actor0DP/CollaborationParticipation
<u>Sub Class Of</u>	Participation ^c
<u>In Domain Of</u>	basedOnCapability ^{op} participationIn ^{op}

Participation^c

IRI	http://w3id.org/CEON/ontology/actor0DP/Participation
<u>Sub Class Of</u>	participationTimePoint ^{dp} <i>exactly 1</i> 1 ^c <i>or</i> participationStartTime ^{dp} <i>exactly 1</i> 1 ^c
<u>In Domain Of</u>	participantRole ^{op} participatingActor ^{op} participationEndTime ^{dp} participationStartTime ^{dp} participationTimePoint ^{dp}
<u>Super Class Of</u>	CollaborationParticipation ^c ResourceParticipation ^c ResourceRelation ^c

Resource Participation^c

IRI	http://w3id.org/CEON/ontology/actor0DP/ResourceParticipation
<u>Sub Class Of</u>	Participation ^c
<u>In Domain Of</u>	participatingObject ^{op} participatingSubject ^{op}

Resource Relation^c

IRI	http://w3id.org/CEON/ontology/actor0DP/ResourceRelation
<u>Sub Class Of</u>	Participation ^c
<u>In Domain Of</u>	participatingResource ^{op}

Role^c

IRI <http://w3id.org/CE0N/ontology/actor0DP/Role>

In Range Of [participantRole](#)^{op}

Collaboration^c

IRI <http://w3id.org/CE0N/ontology/cvn/Collaboration>

Process^c

IRI <http://w3id.org/CE0N/ontology/process0DP/Process>

Resource^c

IRI <http://w3id.org/CE0N/ontology/resource0DP/Resource>

In Range Of [participatingResource](#)^{op}

Geometry^c

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

Description A coherent set of direct positions in space. The positions are held within a Spatial Reference System (SRS).

In Domain Of

- [as GML](#)^{dp}
- [as GeoJSON](#)^{dp}
- [as WKT](#)^{dp}

In Range Of [hasActorLocation](#)^{op}

Object Properties

actor type^{op}

IRI <http://w3id.org/CE0N/ontology/actor0DP/actorType>

Domain [Actor](#)^c

Range [ActorType](#)^c

based on capability^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/basedOnCapability
<u>Domain</u>	CollaborationParticipation ^c
<u>Range</u>	Capability ^c

capability of^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/capabilityOf
<u>Domain</u>	Capability ^c
<u>Range</u>	Actor ^c

capability property^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/capabilityProperty
<u>Domain</u>	Capability ^c

has actor location^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/hasActorLocation
<u>Domain</u>	Actor ^c
<u>Range</u>	Geometry ^c

participant role^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participantRole
<u>Domain</u>	Participation ^c
<u>Range</u>	Role ^c

participating actor^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingActor
<u>Domain</u>	Participation ^c
<u>Range</u>	Actor ^c

participating object^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingObject
<u>Domain</u>	ResourceParticipation ^c

participating resource^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingResource
Domain	ResourceRelation ^c
Range	resourceODP:Resource ^c

participating subject^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participatingSubject
Domain	ResourceParticipation ^c

participation in^{op}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationIn
Domain	CollaborationParticipation ^c
Range	processODP:Process ^c or cvn:Collaboration ^c

Datatype Properties

participation end time^{dp}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationEndTime
Domain	Participation ^c
Range	xsd:gMonthYear ^c or xsd:date ^c or xsd:dateTime ^c or xsd:gYear ^c

participation start time^{dp}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationStartTime
Domain	Participation ^c
Range	xsd:gYear ^c or xsd:dateTime ^c or xsd:gMonthYear ^c or xsd:date ^c

participation time point^{dp}

IRI	http://w3id.org/CE0N/ontology/actor0DP/participationTimePoint
Domain	Participation ^c
Range	xsd:gMonthYear ^c or xsd:gYear ^c or xsd:dateTime ^c or xsd:date ^c

as GML^{dp}

IRI	http://www.opengis.net/ont/geosparql#asGML
<u>Is Defined By</u>	http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal
<u>Description</u>	The GML serialization of a Geometry.
<u>Domain</u>	Geometry ^c
<u>Range</u>	geo:gmlLiteral

as GeoJSON^{dp}

IRI	http://www.opengis.net/ont/geosparql#asGeoJSON
<u>Is Defined By</u>	http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal
<u>Description</u>	The GeoJSON serialization of a Geometry.
<u>Domain</u>	Geometry ^c
<u>Range</u>	geo:geoJSONLiteral

as WKT^{dp}

IRI	http://www.opengis.net/ont/geosparql#asWKT
<u>Is Defined By</u>	http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-as-wkt-literal
<u>Description</u>	The WKT serialization of a Geometry.
<u>Domain</u>	Geometry ^c
<u>Range</u>	geo:wktLiteral

Annotation Properties

contributor^{ap}

IRI	http://purl.org/dc/terms/contributor
------------	---

created^{ap}

IRI	http://purl.org/dc/terms/created
------------	---

creator^{ap}

IRI	http://purl.org/dc/terms/creator
------------	---

description ^{ap}	
IRI	http://purl.org/dc/terms/description
license ^{ap}	
IRI	http://purl.org/dc/terms/license
title ^{ap}	
IRI	http://purl.org/dc/terms/title
preferred namespace prefix ^{ap}	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix
preferred namespace uri ^{ap}	
IRI	http://purl.org/vocab/vann/preferredNamespaceUri
covers requirements ^{ap}	
IRI	http://www.ontologydesignpatterns.org/schemas/cpannotation-schema.owl#coversRequirements
definition ^{ap}	
IRI	http://www.w3.org/2004/02/skos/core#definition
pref label ^{ap}	
IRI	http://www.w3.org/2004/02/skos/core#prefLabel

Namespaces

: <http://w3id.org/CEON/ontology/actorODP/>
 cvn <http://w3id.org/CEON/ontology/cvn/>
 dcterms <http://purl.org/dc/terms/>
 geo <http://www.opengis.net/ont/geosparql#>
 odp <http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#>
 owl <http://www.w3.org/2002/07/owl#>

processODP

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

prov

<http://www.w3.org/ns/prov#>

rdf

<http://www.w3.org/1999/02/22-rdf-syntax-ns#>

rdfs

<http://www.w3.org/2000/01/rdf-schema#>

resourceODP

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

skos

<http://www.w3.org/2004/02/skos/core#>

vann

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

xsd

<http://www.w3.org/2001/XMLSchema#>

Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties