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

٨				C
4	c	Ю	١r	~

IRI http://w3id.org/CEON/ontology/actorODP/Actor

In Domain Of

actorType op

hasActorLocation op

In Range Of

<u>capabilityOf</u>^{op} <u>participatingActor</u>^{op}

Actor Type C

In Range Of actorType op

Capability ^C

In Domain Of

<u>capabilityOf</u>^{op} <u>capabilityProperty</u>^{op}

In Range Of <u>basedOnCapability</u>op

Collaboration Participation ^C

http://w3id.org/CEON/ontology/actorODP/CollaborationPartic

ipation

Sub Class Of Participation^C

In Domain Of

basedOnCapability^{op}
participationIn^{op}

Participation ^c

http://w3id.org/CEON/ontology/actorODP/Participation

Sub Class Of participationStartTime^{dp} exactly 1 1c or participationTimePoint^{dp} exactly 1 1c

In Domain Of

participantRole^{op}
participatingActor^{op}
participationEndTime^{dp}
participationStartTime^{dp}
participationTimePoint^{dp}

Super Class Of

CollaborationParticipation C ResourceParticipation C ResourceRelation C

Resource Participation ^C

IRI http://w3id.org/CEON/ontology/actorODP/ResourceParticipati

on

Sub Class Of Participation^C

In Domain Of

<u>participatingObject</u>^{op} <u>participatingSubject</u>^{op}

Resource Relation ^c

Sub Class Of Participation^C

In Domain Of participatingResource op

Role ^c		
IRI	http://w3id.org/CEON/ontology/actorODP/Role	
In Range Of	<u>participantRole</u> ^{op}	
Collaboration ^c		
IRI	http://w3id.org/CEON/ontology/cvn/Collaboration	
Process ^c		
IRI	http://w3id.org/CEON/ontology/processODP/Process	
Resource ^c		
IRI	http://w3id.org/CEON/ontology/resourceODP/Resource	
In Range Of	<u>participatingResource</u> ^{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/CEON/ontology/actorODP/actorType
Domain	<u>Actor^c</u>
Range	<u>ActorType</u> ^C

based on capability op

http://w3id.org/CEON/ontology/actorODP/basedOnCapability

<u>CollaborationParticipation</u>^C

Range <u>Capability</u>^c

capability of op

Domain <u>Capability</u>^C

Range Actor^C

capability property op

Domain <u>Capability</u>^c

has actor location op

Domain Actor^C

Range Geometry ^C

participant role op

Domain Participation^C

Range Role^C

participating actor op

http://w3id.org/CEON/ontology/actorODP/participatingActor

Domain Participation^C

Range Actor^C

participating object op

Domain ResourceParticipation^c

participating resource op

IRI http://w3id.org/CEON/ontology/actorODP/participatingResour

ce

Domain ResourceRelation^C

Range resourceODP:Resource^C

participating subject op

IRI http://w3id.org/CEON/ontology/actorODP/participatingSubjec

t

Domain ResourceParticipation^C

participation in op

http://w3id.org/CEON/ontology/actorODP/participationIn

Domain CollaborationParticipation^C

Range <u>cvn:Collaboration</u> or <u>processODP:Process</u>

Datatype Properties

participation end time dp

e

Domain Participation C

Range xsd:gYear^c or xsd:date^c or xsd:gMonthYear^c or xsd:dateTime^c

participation start time dp

http://w3id.org/CEON/ontology/actorODP/participationStartT

ime

Domain Participation^C

Range xsd:gMonthYear^c or xsd:dateTime^c or xsd:date^c or xsd:gYear^c

participation time point dp

int

Domain Participation^C

Range xsd:date^c or xsd:dateTime^c or xsd:gMonthYear^c or xsd:gYear^c

as GML^{dp}

Is Defined By http://www.opengis.net/spec/geosparq//1.0/req/geometry-extension/geometry-

as-wkt-literal

Description The GML serialization of a Geometry.

Domain Geometry^C

Range <u>geo:gmlLiteral</u>

as GeoJSON dp

http://www.opengis.net/ont/geosparql#asGeoJSON

Is Defined By <a href="http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension-geometry-extension-g

as-wkt-literal

DescriptionThe GeoJSON serialization of a Geometry.

Domain Geometry C

Range geo:geoJSONLiteral

as WKT^{dp}

<u>Is Defined By http://www.opengis.net/spec/geosparql/1.0/req/geometry-extension/geometry-</u>

as-wkt-literal

Description The WKT serialization of a Geometry.

Domain Geometry^C

Range geo:wktLiteral

Annotation Properties

contributor ap

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

created ap

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

creator ap

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 <sup>ap</sup>
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
                  \verb|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/
```

```
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

С	Classes
ор	Object Properties
dp	Datatype Properties
ap	Annotation Properties