

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

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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/CE0N/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/CE0N/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/CE0N/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/CE0N/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/CE0N/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 |
| Domain | CollaborationParticipation ^c |
| Range | Capability ^c |

capability of^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/capabilityOf |
| Domain | Capability ^c |
| Range | Actor ^c |

capability property^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/capabilityProperty |
| Domain | Capability ^c |

has actor location^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/hasActorLocation |
| Domain | Actor ^c |
| Range | Geometry ^c |

participant role^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/participantRole |
| Domain | Participation ^c |
| Range | Role ^c |

participating actor^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/participatingActor |
| Domain | Participation ^c |
| Range | Actor ^c |

participating object^{op}

| | |
|---------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/participatingObject |
| Domain | 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:gYear ^c or xsd:date ^c or xsd:dateTime ^c |

participation start time^{dp}

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

participation time point^{dp}

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

as GML^{dp}

| | |
|----------------------|---|
| 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 ^c |
| Range | geo:gmlLiteral |

as GeoJSON^{dp}

| | |
|----------------------|---|
| 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 ^c |
| Range | geo:geoJSONLiteral |

as WKT^{dp}

| | |
|----------------------|---|
| 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 ^c |
| Range | 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 |