

Circular Economy Ontology Network (CEON) - Actor Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Actor Module

Creator

Eva Blomqvist

Contributor

Huanyu Li

Mikael Lindecrantz

Robin Keskisärkkä

Date Created

2023-03-16

License

<https://github.com/LiUSemWeb/CEON/blob/master/LICENSE>

Version Iri

<http://w3id.org/CEON/ontology/actor/0.1/>

Version Info

0.1

Preferred Namespace Prefix

actor

Preferred Namespace Uri

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

Description

The Actor module of CEON (Circular Economy Ontology Network).

Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.1: C0-1, C0-2, C3-4, T3-4

Classes

| Actor Cvn Role ^C | |
|-----------------------------|---|
| IRI | http://w3id.org/CEON/ontology/actor/ActorCVNRole |
| Sub Class Of | ActorCollaborationRole^C |
| Named Individuals | <div>collectorⁿⁱ dismantlerⁿⁱ manufacturerⁿⁱ recyclerⁿⁱ resellerⁿⁱ sellerⁿⁱ supplierⁿⁱ userⁿⁱ</div> |

Actor Collaboration Role^C

| | |
|------------------------------|---|
| IRI | http://w3id.org/CEON/ontology/actor/ActorCollaborationRole |
| <u>Sub Class Of</u> | actorODP:Role^C |
| <u>Super Class Of</u> | ActorCVNRole^C ActorProcessRole^C |

Actor Process Role^C

| | |
|----------------------------|---|
| IRI | http://w3id.org/CEON/ontology/actor/ActorProcessRole |
| <u>Sub Class Of</u> | ActorCollaborationRole^C |

Actor Resource Role^C

| | |
|---------------------------------|---|
| IRI | http://w3id.org/CEON/ontology/actor/ActorResourceRole |
| <u>Sub Class Of</u> | actorODP:Role^C |
| <u>Named Individuals</u> | buyerⁿⁱ consumerⁿⁱ issuerⁿⁱ ownerⁿⁱ producerⁿⁱ providerⁿⁱ resellerⁿⁱ sellerⁿⁱ supplierⁿⁱ updaterⁿⁱ userⁿⁱ viewerⁿⁱ |

Buying Resource^C

| | |
|-------------------------------|--|
| IRI | http://w3id.org/CEON/ontology/actor/BuyingResource |
| <u>Sub Class Of</u> | actorODP:ResourceRelation^C |
| <u>Equivalentclass</u> | actorODP:participantRole^{op} value buyer^C <i>and</i> actorODP:ResourceRelation^C |

Cvn Participation^C

| | |
|----------------------------|--|
| IRI | http://w3id.org/CEON/ontology/actor/CVNParticipation |
| <u>Sub Class Of</u> | actorODP:CollaborationParticipation^C actorODP:participatingActor^{op} some actorODP:Actor^C <i>and</i> actorODP:participationIn^{op} some http://w3id.org/CEON/ontology/cvn/CVN^C <i>and</i> actorODP:CollaborationParticipation^C <i>and</i> actorODP:participantRole^{op} some ActorCVNRole^C |

Consuming Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/ConsumingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{OP} value consumer^C and actorODP:ResourceRelation^C |

Issuing Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/IssuingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{OP} value issuer^C and actorODP:ResourceRelation^C |

Owning Resource^C

| | |
|------------------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor/OwningResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{OP} value owner^C and actorODP:ResourceRelation^C |

Process Participation^C

| | |
|---------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/ProcessParticipation |
| Sub Class Of | actorODP:CollaborationParticipation^C actorODP:participatingActor^{OP} some actorODP:Actor^C and actorODP:participationIn^{OP} some http://w3id.org/CE0N/ontology/process/Process^C and actorODP:participantRole^{OP} some ActorCVNRole^C and actorODP:CollaborationParticipation^C |

Producing Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/ProducingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:ResourceRelation^C and actorODP:participantRole^{OP} value producer^C |

Providing Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/ProvidingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{OP} value provider^C and actorODP:ResourceRelation^C |

Reselling Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/ResellingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{op} value reseller^C and actorODP:ResourceRelation^C |

Selling Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/SellingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:ResourceRelation^C and actorODP:participantRole^{op} value seller^C |

Supplying Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/SupplyingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{op} value supplier^C and actorODP:ResourceRelation^C |

Updating Resource^C

| | |
|------------------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor/UpdatingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:ResourceRelation^C and actorODP:participantRole^{op} value updater^C |

Using Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/UsingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:participantRole^{op} value user^C and actorODP:ResourceRelation^C |

Viewing Resource^C

| | |
|------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/ViewingResource |
| Sub Class Of | actorODP:ResourceRelation^C |
| Equivalentclass | actorODP:ResourceRelation^C and actorODP:participantRole^{op} value viewer^C |

Actor^C

| | |
|------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor0DP/Actor |
|------------|---|

Capability^c

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

In Domain Of [capabilityExtent^{op}](#)
[neededResourceRelation^{op}](#)

Collaboration Participation^c

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

Super Class Of [CVNParticipation^c](#)
[ProcessParticipation^c](#)

Participation^c

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

Resource Relation^c

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

Sub Class Of [actorODP:participantRole^{op}](#) some [ActorResourceRole^c](#) and [actorODP:participatingActor^{op}](#) some [actorODP:Actor^c](#) and [actorODP:Participation^c](#) and [actorODP:participatingResource^{op}](#) some [http://w3id.org/CEON/ontology/resourceODP/Resource^c](http://w3id.org/CEON/ontology/resourceODP/Resource)

Super Class Of [BuyingResource^c](#)
[ConsumingResource^c](#)
[IssuingResource^c](#)
[OwningResource^c](#)
[ProducingResource^c](#)
[ProvidingResource^c](#)
[ResellingResource^c](#)
[SellingResource^c](#)
[SupplyingResource^c](#)
[UpdatingResource^c](#)
[UsingResource^c](#)
[ViewingResource^c](#)

Role^c

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

Super Class Of [ActorCollaborationRole^c](#)
[ActorResourceRole^c](#)

Cvn^C

IRI <http://w3id.org/CEON/ontology/cvn/CVN>

Sub Class Of <http://w3id.org/CEON/ontology/cvn/Collaboration>^C

Collaboration^C

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

Super Class Of <http://w3id.org/CEON/ontology/cvn/CVN>^C

Process^C

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

Resource^C

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

Object Properties

capability extent^{op}

IRI <http://w3id.org/CEON/ontology/actor/capabilityExtent>

Sub Property Of [actorODP:capabilityProperty](#)^{op}

Domain [actorODP:Capability](#)^C

needed resource relation^{op}

IRI <http://w3id.org/CEON/ontology/actor/neededResourceRelation>

Sub Property Of [actorODP:capabilityProperty](#)^{op}

Domain [actorODP:Capability](#)^C

capability property^{op}

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

Super Property Of

- [capabilityExtent](#)^{op}
- [neededResourceRelation](#)^{op}

participant role^{op}

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

participating actor^{op}

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

participating resource^{op}

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

participation in^{op}

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

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/cannotation-schema.owl#coversRequirements>

Namespaces

:

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

actorODP

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

dcterms

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

odp

<http://www.ontologydesignpatterns.org/schemas/cannotationschema.owl#>

owl

<http://www.w3.org/2002/07/owl#>

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#>

vann

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

Legend

| | |
|---------------|--------------------------|
| ^c | Classes |
| ^{op} | Object Properties |
| ^{ap} | Annotation Properties |