

Circular Economy Ontology Network (CEON) - Actor Module

Metadata

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|----------------------------|--|
| IRI | http://w3id.org/CEON/ontology/actor/ |
| Title | Circular Economy Ontology Network (CEON) - Actor Module |
| Creator | Huanyu Li |
| Contributor | Eva Blomqvist Mikael Lindecrantz Robin Keskisärkkä |
| Date Created | 2024-11-13 |
| License | https://creativecommons.org/licenses/by/4.0/ |
| Version Iri | http://w3id.org/CEON/ontology/actor/0.3/ |
| Version Info | 0.3 |
| 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 In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.2: 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 | collectorⁿⁱ dismantlerⁿⁱ manufacturerⁿⁱ recyclerⁿⁱ resellerⁿⁱ sellerⁿⁱ supplierⁿⁱ userⁿⁱ |

Actor Collaboration Role^C

| | |
|------------------------------|---|
| IRI | http://w3id.org/CE0N/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/CE0N/ontology/actor/ActorProcessRole |
| <u>Sub Class Of</u> | ActorCollaborationRole^C |

Actor Resource Role^C

| | |
|---------------------------------|---|
| IRI | http://w3id.org/CE0N/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/CE0N/ontology/actor/BuyingResource |
| <u>Sub Class Of</u> | actorODP:ResourceRelation^C |
| <u>Equivalentclass</u> | actorODP:ResourceRelation^C and actorODP:participantRole^{op} value buyer^C |

Cvn Participation^C

| | |
|----------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/CVNParticipation |
| <u>Sub Class Of</u> | actorODP:CollaborationParticipation^C actorODP:CollaborationParticipation^C and actorODP:participationIn^{op} some <a href="http://w3id.org/CE0N/ontology/cvn/CVN<sup>C</sup>">http://w3id.org/CE0N/ontology/cvn/CVN^C and actorODP:participantRole^{op} some ActorCVNRole^C and actorODP:participatingActor^{op} some actorODP:Actor^C |

Consuming Resource^C

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

Manufacturing Resource^C

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

Organisation^C

| | |
|----------------------|---|
| IRI | http://w3id.org/CE0N/ontology/actor/Organisation |
| Is Defined By | ISO 59004:2024 - 3.4.1 organization |
| Description | Person or group of people that has its own functions with responsibilities, authorities, and relationships to achieve its objectives. The concept of organization includes, but is not limited to sole-trader, company, corporation, firm, enterprise, authority, partnership, charity or institution, or part or combination thereof, whether incorporated or not, public or private (e.g. foundation, union, association, agency, municipality, region, country, intergovernmental agencies). A group of organizations can also be considered as an organization that has, alone or collectively, their own objectives. |
| Sub Class Of | actorODP:Actor^C |

Owning Resource^C

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

Person^C

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

Sub Class Of [actorODP:Actor^C](#)

Process Participation^C

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

Sub Class Of [actorODP:CollaborationParticipation^C](#)
[actorODP:CollaborationParticipation^C](#) *and* [actorODP:participatingActor^{op}](#) some
[actorODP:Actor^C](#) *and* [actorODP:participationIn^{op}](#) some
[http://w3id.org/CEON/ontology/processODP/Process^C](http://w3id.org/CEON/ontology/processODP/Process) *and*
[actorODP:participantRole^{op}](#) some [ActorProcessRole^C](#)

Producing Resource^C

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

Sub Class Of [actorODP:ResourceRelation^C](#)

Equivalentclass [actorODP:participantRole^{op}](#) value [producer^C](#) *and* [actorODP:ResourceRelation^C](#)

Providing Resource^C

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

Sub Class Of [actorODP:ResourceRelation^C](#)

Equivalentclass [actorODP:ResourceRelation^C](#) *and* [actorODP:participantRole^{op}](#) value [provider^C](#)

Reselling Resource^C

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

Sub Class Of [actorODP:ResourceRelation^C](#)

Equivalentclass [actorODP:ResourceRelation^C](#) *and* [actorODP:participantRole^{op}](#) value [reseller^C](#)

Selling Resource^C

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

Sub Class Of [actorODP:ResourceRelation^C](#)

Equivalentclass [actorODP:ResourceRelation^C](#) *and* [actorODP:participantRole^{op}](#) value [seller^C](#)

Interested partyStakeholder^C

| | |
|-----------------------------|--|
| IRI | http://w3id.org/CE0N/ontology/actor/Stakeholder |
| <u>Is Defined By</u> | ISO 59004:2024 - 3.4.2 interested party, stakeholder |
| <u>Description</u> | Person or organization that can affect, be affected by, or perceive itself to be affected by a decision or activity. To “perceive itself to be affected” means the perception has been made known to the organization. |
| <u>Sub Class Of</u> | Organisation ^C or Person ^C |

Supplying Resource^C

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

Updating Resource^C

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

Using Resource^C

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

Viewing Resource^C

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

Actor^C

| | |
|------------------------------|---|
| IRI | http://w3id.org/CE0N/ontology/actorODP/Actor |
| <u>Super Class Of</u> | Organisation ^C Person ^C |

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

Super Class Of [BuyingResource^C](#)
[ConsumingResource^C](#)
[IssuingResource^C](#)
[ManufacturingResource^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 |