

Circular Economy Ontology Network (CEON) - Actor Module

Metadata

IRI

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

Title

Circular Economy Ontology Network
(CEON) - Actor Module

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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

- [collectorⁿⁱ](#)
- [dismantlerⁿⁱ](#)
- [manufacturerⁿⁱ](#)
- [recyclerⁿⁱ](#)
- [resellerⁿⁱ](#)
- [sellerⁿⁱ](#)
- [supplierⁿⁱ](#)
- [userⁿⁱ](#)

Actor Collaboration Role^C

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

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

Super Class Of

- [ActorCVNRole^C](#)
- [ActorProcessRole^C](#)

Actor Process Role^c

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

Sub Class Of [ActorCollaborationRole^c](#)

Actor Resource Role^c

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

Sub Class Of [actorODP:Role^c](#)

Named Individuals

[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/CVNPParticipation |
| <u>Sub Class Of</u> | actorODP:CollaborationParticipation^C actorODP:CollaborationParticipation^C <i>and</i> actorODP:participantRole ^{op} some ActorCVNRole^C <i>and</i> actorODP:participatingActor ^{op} some actorODP:Actor^C <i>and</i> actorODP:participationIn ^{op} some <a href="http://w3id.org/CEON/ontology/cvn/CVN<sup>C</sup>">http://w3id.org/CEON/ontology/cvn/CVN^C |

Consuming Resource^C

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

Issuing Resource^C

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

Owning Resource^C

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

Process Participation^C

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

Producing Resource^C

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

Providing Resource^C

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

Reselling Resource^C

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

Selling Resource^C

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

Supplying Resource^C

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

Updating Resource^C

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

Using Resource^C

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

Viewing Resource^C

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

Actor^C

| | |
|------------|---|
| IRI | http://w3id.org/CEON/ontology/actorODP/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:Participation^c](#)
and
[actorODP:participatingActor^{op}](#) some
[actorODP:Actor^c](#) *and*
[actorODP:participantRole^{op}](#) some
[ActorResourceRole^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/actor0DP/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](http://w3id.org/CEON/ontology/cvn/Collaboration)

Collaboration^c

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

Super Class Of [http://w3id.org/CEON/ontology/cvn/CVN^c](http://w3id.org/CEON/ontology/cvn/CVN)

Process^c

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

Resource^c

| | |
|------------|---|
| IRI | http://w3id.org/CEON/ontology/resourceODP/Resource |
|------------|---|

Object Properties

capability extent^{op}

| | |
|------------|---|
| IRI | http://w3id.org/CEON/ontology/actor/capabilityExtent |
|------------|---|

| | |
|-------------------------------|---|
| <u>Sub Property Of</u> | <u>actorODP:capabilityProperty^{op}</u> |
|-------------------------------|---|

| | |
|----------------------|--|
| <u>Domain</u> | <u>actorODP:Capability^c</u> |
|----------------------|--|

needed resource relation^{op}

| | |
|------------|---|
| IRI | http://w3id.org/CEON/ontology/actor/neededResourceRelation |
|------------|---|

| | |
|-------------------------------|---|
| <u>Sub Property Of</u> | <u>actorODP:capabilityProperty^{op}</u> |
|-------------------------------|---|

| | |
|----------------------|--|
| <u>Domain</u> | <u>actorODP:Capability^c</u> |
|----------------------|--|

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/CEON/ontology/actorODP/participatingActor>

participating resource^{op}

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

participation in^{op}

IRI <http://w3id.org/CEON/ontology/actorODP/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/cpannotationschema.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/cpannotationschema.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 |