

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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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 D2.3: C0-1, C0-2, C3-4, T3-4

Classes

Actor Cvn Role^c

IRI	http://w3id.org/CEON/ontology/actor/ActorCVNRole
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<u>Sub Class Of</u>	ActorCollaborationRole^c
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<u>Named Individuals</u>	<u>collector</u> ⁿⁱ <u>dismantler</u> ⁿⁱ <u>manufacturer</u> ⁿⁱ <u>recycler</u> ⁿⁱ <u>reseller</u> ⁿⁱ <u>seller</u> ⁿⁱ <u>supplier</u> ⁿⁱ <u>user</u> ⁿⁱ
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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>

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

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

Cvn Participation^c

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

Sub Class Of [actorODP:CollaborationParticipation^c](#)
[actorODP:participantRole](#)
^{op} some [ActorCVNRole^c](#)
and
[actorODP:participatingActor](#)^{op} some
[actorODP:Actor^c](#) *and*
[actorODP:CollaborationParticipation^c](#) *and*
[actorODP:participationIn](#)
^{op} some
[http://w3id.org/CEON/ontology/cvn/CVN^c](http://w3id.org/CEON/ontology/cvn/CVN)

Consuming Resource^c

IRI <http://w3id.org/CEON/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/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

Manufacturing Resource^C

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

Organisation^c

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

Person^C

IRI	http://w3id.org/CEON/ontology/actor/Person
<u>Sub Class Of</u>	actorODP:Actor^C

Process Participation^C

IRI

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

Sub Class Of

[actorODP:CollaborationParticipation^C](#)
[actorODP:participantRole](#)
^{op} some
[ActorProcessRole^C](#) *and* [actorODP:participatingActor^{op}](#) some
[actorODP:Actor^C](#) *and* [actorODP:participationIn](#)
^{op} some
<http://w3id.org/CEON/ontology/processODP/Process^C> *and* [actorODP:CollaborationParticipation^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
<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:ResourceRelation^C <i>and</i> actorODP:participantRole ^{op} value reseller^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 and actorODP:ResourceRelation^C

Interested partyStakeholder^C

IRI	http://w3id.org/CEON/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>	Person^C or Organisation^C

Supplying Resource^C

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

Updating Resource^C

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

Using Resource^C

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

Viewing Resource^C

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

Actor^C

IRI	http://w3id.org/CEON/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:participantRole](#)
^{op} some
[ActorResourceRole](#)^c *and*
[actorODP:Participation](#)^c
and
[actorODP:participatingActor](#)^{op} some
[actorODP:Actor](#)^c *and*
[actorODP:participatingResource](#)^{op} some
<http://w3id.org/CEON/ontology/resourceODP/Resource>^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/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
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Object Properties

capability extent^{op}

IRI	http://w3id.org/CEON/ontology/actor/capabilityExtent
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<u>Sub Property Of</u>	<u>actorODP:capabilityProperty^{op}</u>
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<u>Domain</u>	<u>actorODP:Capability^c</u>
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needed resource relation^{op}

IRI	http://w3id.org/CEON/ontology/actor/neededResourceRelation
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<u>Sub Property Of</u>	<u>actorODP:capabilityProperty^{op}</u>
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<u>Domain</u>	<u>actorODP:Capability^c</u>
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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