# 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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**Date Created** 

2023-03-16

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**Version Iri** 

http://w3id.org/CEON/ontology/actor/0.2/

**Version Info** 

0.2

**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

Sub Class Of ActorCollaborationRole<sup>C</sup>

**Named Individuals** 

collector<sup>ni</sup>
dismantler<sup>ni</sup>
manufacturer<sup>ni</sup>
recycler<sup>ni</sup>
reseller<sup>ni</sup>
seller<sup>ni</sup>
supplier<sup>ni</sup>
user<sup>ni</sup>

Actor Collaboration Role C

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

Sub Class Of actorODP:Role<sup>C</sup>

Super Class Of ActorCVNRole<sup>C</sup>

ActorProcessRole C

Actor Process Role C

Sub Class Of ActorCollaborationRole C

Actor Resource Role C

Sub Class Of actorODP:Role<sup>C</sup>

**Named Individuals** 

buyer<sup>ni</sup>
consumer<sup>ni</sup>
issuer<sup>ni</sup>
owner<sup>ni</sup>
producer<sup>ni</sup>
provider<sup>ni</sup>
reseller<sup>ni</sup>
supplier<sup>ni</sup>

<u>updater<sup>ni</sup></u> <u>user<sup>ni</sup></u> <u>viewer<sup>ni</sup></u>

Buying Resource <sup>C</sup>

Sub Class Of actorODP:ResourceRelation C

<u>Equivalentclass</u> <u>actorODP:ResourceRelation<sup>C</sup> and actorODP:participantRole<sup>op</sup> value buyer<sup>C</sup></u>

Cvn Participation <sup>c</sup>

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup>

actorODP:participatingActor op some actorODP:Actor and

actorODP:participationIn<sup>op</sup> some http://w3id.org/CEON/ontology/cvn/CVN<sup>c</sup> and

 $\underline{actor ODP:} \underline{participantRole}^{op} \ some \ \underline{Actor CVNRole}^{c} \ \underline{and}$ 

actorODP:CollaborationParticipation<sup>C</sup>

Consuming Resource c

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:participantRole op value consumer and actorODP:ResourceRelation

С

Issuing Resource C

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:participantRole op value issuer and actorODP:ResourceRelation actorODP:

Manufacturing Resource <sup>C</sup>

IRI http://w3id.org/CEON/ontology/actor/ManufacturingResource

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole properties and actorODP:

manufacturer <sup>C</sup>

Owning Resource <sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole op value owner owner owner.

Process Participation <sup>C</sup>

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

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup> actorODP:participationIn<sup>op</sup> some

http://w3id.org/CEON/ontology/processODP/Process<sup>c</sup> and actorODP:participantRole<sup>op</sup> some ActorCVNRole<sup>c</sup> and

actorODP:CollaborationParticipation<sup>c</sup> and actorODP:participatingActor<sup>op</sup> some

actorODP:Actor<sup>C</sup>

Producing Resource<sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:participantRole op value producer and actorODP:ResourceRelation actorOD

Providing Resource<sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:participantRole op value provider and actorODP:ResourceRelation actorOD

Reselling Resource C

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole population reseller actorODP:

Selling Resource<sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole op value seller actorODP:

Supplying Resource<sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:participantRole op value supplier and actorODP:ResourceRelation actorODP:ResourceRelation

Updating Resource <sup>C</sup>

Sub Class Of actorODP:ResourceRelation C

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole population and actorODP:participantRole actorODP:

Using Resource<sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole population actorODP: value user actorODP:

Viewing Resource<sup>C</sup>

Sub Class Of actorODP:ResourceRelation<sup>C</sup>

Equivalentclass actorODP:participantRole op value viewer and actorODP:ResourceRelation actorODP:ResourceRelation actorODP:ResourceRelation actorODP:

Actor <sup>C</sup>

http://w3id.org/CEON/ontology/actorODP/Actor

Capability <sup>C</sup>

In Domain Of

<u>capabilityExtent</u><sup>op</sup>

neededResourceRelation op

Collaboration Participation <sup>c</sup>

http://w3id.org/CEON/ontology/actorODP/CollaborationPartic

ipation

Super Class Of <u>CVNParticipation</u><sup>C</sup>

ProcessParticipation<sup>C</sup>

Participation <sup>C</sup>

http://w3id.org/CEON/ontology/actorODP/Participation

Resource Relation <sup>c</sup> IRI http://w3id.org/CEON/ontology/actorODP/ResourceRelation **Sub Class Of** actorODP:participatingActor<sup>op</sup> some actorODP:Actor<sup>c</sup> and actorODP:participatingResource op some http://w3id.org/CEON/ontology/resourceODP/Resource<sup>C</sup> and actorODP:participantRole op some ActorResourceRole and actorODP:Participation<sup>C</sup> **Super Class Of** <u>BuyingResource</u><sup>C</sup> <u>ConsumingResource</u><sup>C</sup> <u>IssuingResource</u><sup>C</sup> ManufacturingResource<sup>C</sup> OwningResource C ProducingResource<sup>C</sup> <u>ProvidingResource</u><sup>C</sup> ResellingResource<sup>C</sup> SellingResource<sup>C</sup> <u>SupplyingResource</u><sup>C</sup> <u>UpdatingResource</u><sup>C</sup> <u>UsingResource</u><sup>C</sup> <u>ViewingResource</u><sup>C</sup> Role <sup>C</sup> IRI http://w3id.org/CEON/ontology/actorODP/Role **Super Class Of** ActorCollaborationRole C ActorResourceRole<sup>C</sup> Cvn<sup>c</sup> IRI http://w3id.org/CEON/ontology/cvn/CVN **Sub Class Of** http://w3id.org/CEON/ontology/cvn/Collaboration<sup>C</sup> Collaboration <sup>C</sup> IRI http://w3id.org/CEON/ontology/cvn/Collaboration **Super Class Of** http://w3id.org/CEON/ontology/cvn/CVN<sup>C</sup> Process <sup>c</sup> IRI http://w3id.org/CEON/ontology/processODP/Process Resource <sup>C</sup>

http://w3id.org/CEON/ontology/resourceODP/Resource

IRI

### **Object Properties**

### capability extent op

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

Sub Property Of actorODP:capabilityProperty op

Domain actorODP:Capability<sup>C</sup>

### needed resource relation op

Sub Property Of actorODP:capabilityProperty op

Domain actorODP:Capability<sup>C</sup>

### capability property op

**Super Property Of** 

- capabilityExtent op
- neededResourceRelation op

### participant role op

### participating actor op

#### participating resource op

ce

## participation in op

# **Annotation Properties**

contributor <sup>ap</sup>	
IRI	http://purl.org/dc/terms/contributor
created <sup>ap</sup>	
IRI	http://purl.org/dc/terms/created
creator <sup>ap</sup>	
IRI	http://purl.org/dc/terms/creator
description ap	
IRI	http://purl.org/dc/terms/description
license <sup>ap</sup>	
IRI	http://purl.org/dc/terms/license
title <sup>ap</sup>	
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 <sup>ap</sup>	
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

