# 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<sup>C</sup>

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

Sub Class Of ActorCollaborationRole C

**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<sup>C</sup>

## 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>
seller<sup>ni</sup>

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

<u>supplier<sup>ni</sup></u>

#### Buying Resource<sup>C</sup>

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

Equivalentclass actorODP:participantRole op value buyer and actorODP:ResourceRelation actorODP:R

## Cvn Participation C

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

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup>

actorODP:participatingActor op some actorODP:Actor and

 $\frac{actorODP:CollaborationParticipation {}^{\textbf{C}}\textit{ and } \underbrace{actorODP:participationIn}^{op} \textit{ some } \underbrace{http://w3id.org/CEON/ontology/cvn/CVN}^{\textbf{C}}\textit{ and } \underbrace{actorODP:participantRole}^{op}$ 

some ActorCVNRole<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 <sup>C</sup>

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

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

Manufacturing Resource<sup>C</sup>

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

**Equivalentclass** actorODP:participantRole op value manufacturer and

actorODP:ResourceRelation<sup>C</sup>

Organisation <sup>C</sup>

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<sup>C</sup>

Owning Resource<sup>C</sup>

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

Sub Class Of actorODP:ResourceRelation C

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

Person<sup>C</sup>

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

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

Process Participation <sup>C</sup>

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

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup>

<u>actorODP:CollaborationParticipation</u> and <u>actorODP:participatingActor</u> some <u>actorODP:Actor</u> and <u>actorODP:participantRole</u> some <u>ActorProcessRole</u> and <u>actorODP:participantRole</u> and <u>actorProcessRole</u> and actorProcessRole and ac

actorODP:participationIn op some

http://w3id.org/CEON/ontology/processODP/ProcessC

Producing Resource<sup>C</sup>

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

<u>Equivalentclass</u> <u>actorODP:participantRole</u> op value <u>producer</u> and <u>actorODP:ResourceRelation</u> of value <u>producer</u> of value <u>producer</u> and <u>actorODP:ResourceRelation</u> of value <u>producer</u> and actorODP:ResourceRelation of value and actorODP:ResourceRelation of value and actorODP:ResourceRelation of value an

Providing Resource<sup>C</sup>

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

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

Reselling Resource <sup>C</sup>

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

Sub Class Of actorODP:ResourceRelation C

<u>Equivalentclass</u> <u>actorODP:participantRole op value reseller and actorODP:ResourceRelation acto</u>

Selling Resource<sup>C</sup>

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

Equivalentclass actorODP:participantRole<sup>op</sup> value seller<sup>c</sup> and actorODP:ResourceRelation<sup>c</sup>

Interested partyStakeholder <sup>c</sup>

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

Is Defined By
ISO 59004:2024 - 3.4.2 interested party, stakeholder

**Description** 

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.

Sub Class Of Organisation or Person or Person

Supplying Resource<sup>C</sup>

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole popular supplier

Updating Resource <sup>C</sup>

Sub Class Of actorODP:ResourceRelation C

<u>Equivalentclass</u> <u>actorODP:participantRole<sup>op</sup> value updater<sup>c</sup> and actorODP:ResourceRelation<sup>c</sup></u>

Using Resource <sup>C</sup>

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

Equivalentclass actorODP:participantRole op value user and actorODP:ResourceRelation

Viewing Resource C

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

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

Actor <sup>C</sup>

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

Super Class Of

Organisation<sup>C</sup>
Person<sup>C</sup>

Capability <sup>C</sup>

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

In Domain Of

capabilityExtent<sup>op</sup>

neededResourceRelation op

Collaboration Participation <sup>c</sup>

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

ipation

**Super Class Of** 

CVNParticipation<sup>c</sup>
ProcessParticipation<sup>c</sup>

Participation <sup>C</sup>

Resource Relation <sup>c</sup>

Sub Class Of actorODP:Participation and actorODP:participatingActor op some

actorODP:Actor<sup>C</sup> and actorODP:participatingResource<sup>Op</sup> some http://w3id.org/CEON/ontology/resourceODP/Resource<sup>C</sup> and actorODP:participantRole<sup>Op</sup> some ActorResourceRole<sup>C</sup>

Super Class Of

BuyingResource<sup>C</sup>
ConsumingResource<sup>C</sup>
IssuingResource<sup>C</sup>
ManufacturingResource<sup>C</sup>
OwningResource<sup>C</sup>
ProducingResource<sup>C</sup>
ProvidingResource<sup>C</sup>
ResellingResource<sup>C</sup>
SellingResource<sup>C</sup>
SupplyingResource<sup>C</sup>

UsingResource<sup>C</sup>
ViewingResource<sup>C</sup>

<u>UpdatingResource</u><sup>c</sup>

Role C

**Super Class Of** 

ActorCollaborationRole<sup>C</sup> ActorResourceRole<sup>C</sup> Cvn<sup>c</sup>

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

Sub Class Of <a href="http://w3id.org/CEON/ontology/cvn/Collaboration">http://w3id.org/CEON/ontology/cvn/Collaboration</a>

Collaboration <sup>C</sup>

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

Super Class Of <a href="http://w3id.org/CEON/ontology/cvn/CVN">http://w3id.org/CEON/ontology/cvn/CVN</a>

Process <sup>C</sup>

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

Resource <sup>C</sup>

# **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** 

• capabilityExtentop

• neededResourceRelation op

participant role op

participating actor op		
IRI	http://w3id.org/CEON/ontology/actorODP/participatingActor	
participatir	ng resource <sup>op</sup>	
IRI	<pre>http://w3id.org/CEON/ontology/actorODP/participatingResour ce</pre>	
participatio	on in <sup>op</sup>	
IRI	http://w3id.org/CEON/ontology/actorODP/participationIn	

# Annotation Properties

contributor ap	
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 <sup>ap</sup>	
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 names	pace prefix <sup>ap</sup>
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix

# 

# 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