# 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<sup>C</sup>

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

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<sup>C</sup>

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

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

**Super Class Of** 

ActorCVNRole<sup>c</sup>
ActorProcessRole<sup>c</sup>

#### Actor Process Role C

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

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

#### Actor Resource Role<sup>C</sup>

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

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

**Named Individuals** 

buyerni
consumerni
issuerni
ownerni
producerni
providerni
resellerni
sellerni
supplierni
updaterni
userni
viewerni

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

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

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole pyerc

## Cvn Participation <sup>C</sup>

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

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup>

<u>actorODP:participatingActor<sup>op</sup></u> some <u>actorODP:Actor<sup>c</sup></u> and <u>actorODP:participantRole<sup>op</sup></u> some <u>ActorCVNRole<sup>c</sup></u> and

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

http://w3id.org/CEON/ontology/cvn/CVNC

#### Consuming Resource <sup>C</sup>

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

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

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

Issuing Resource c

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

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

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

Owning Resource<sup>C</sup>

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

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

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

Process Participation <sup>C</sup>

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

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup>

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

actorODP:Actor<sup>c</sup> and actorODP:participationIn op some

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

some ActorCVNRole<sup>C</sup>

Producing Resource<sup>C</sup>

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

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

Equivalentclass actorODP:participantRole op value producer and actorODP:ResourceRelation

Providing Resource<sup>C</sup>

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

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole provider and actorODP:participantRole provider and actorODP:

### Reselling Resource<sup>C</sup>

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

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

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

### Selling Resource <sup>C</sup>

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

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

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

# Supplying Resource<sup>C</sup>

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

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

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

#### Updating Resource <sup>C</sup>

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

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole value updater

## Using Resource<sup>C</sup>

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

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

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

Viewing Resource<sup>C</sup>

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

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

**Equivalentclass** <u>actorODP:participantRole op value viewer and actorODP:ResourceRelation actorODP:ResourceRelation actorODP:ResourceRelation actorODP:</u>

Actor <sup>C</sup>

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

Capability <sup>C</sup>

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

In Domain Of capabilityExtent op

neededResourceRelation op

Collaboration Participation <sup>C</sup>

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

**Super Class Of** 

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

Participation <sup>c</sup>

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

#### Resource Relation<sup>c</sup>

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

Sub Class Of actorODP:Participation and actorODP:participatingResource some

http://w3id.org/CEON/ontology/resourceODP/Resource<sup>c</sup> and actorODP:participatingActor<sup>op</sup> some actorODP:Actor<sup>c</sup> and actorODP:participantRole<sup>op</sup> some ActorResourceRole<sup>c</sup>

**Super Class Of** 

BuyingResource ConsumingResource ConsumingResource ConsumingResource Country Service SellingResource Country SellingResource C

Role<sup>C</sup>

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

**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>

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<sup>c</sup>

needed resource relation op

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

Sub Property Of actorODP:capabilityProperty op

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

capability property op

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

**Super Property Of** 

- capabilityExtentop
- neededResourceRelationop

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 <sup>op</sup>	
IRI	http://w3id.org/CEON/ontology/actorODP/participationIn

# **Annotation Properties**

7 timotation i roperties		
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 <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 namespace prefix <sup>ap</sup>		
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	
preferred namespace uri <sup>ap</sup>		
IRI	http://purl.org/vocab/vann/preferredNamespaceUri	

# covers requirements ap

IRI

 $http://www.ontologydesign patterns.org/schemas/cpannotationschema.owl\#covers \ Requirements$ 

# 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

Classes

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Object Properties

**Annotation Properties** 

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