# 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>

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** 

<u>buyer</u><sup>ni</sup> <u>consumer</u><sup>ni</sup>

issuer<sup>ni</sup> owner<sup>ni</sup>

<u>producer<sup>ni</sup></u> <u>provider<sup>ni</sup></u> <u>reseller<sup>ni</sup></u>

<u>seller</u><sup>ni</sup> <u>supplier</u><sup>ni</sup> <u>updater</u><sup>ni</sup>

user<sup>ni</sup> viewer<sup>ni</sup>

Buying Resource<sup>C</sup>

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

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

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

С

Issuing Resource C

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole provided issuer

Owning Resource C

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

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

Process Participation<sup>C</sup>

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

**Sub Class Of** 

actorODP:CollaborationParticipation<sup>C</sup>

 $\underline{actorODP:}participantRole^{op} \ some \ \underline{ActorCVNRole^{c}} \ and \ \underline{actorODP:}participationIn$ 

op some <a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process</a> 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<sup>C</sup>

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole popular reseller actorODP: and actorODP:participantRole popular reseller actorODP: and actorODP: participantRole popular reseller actorODP: participantRole popular reseller actorODP: participantRole popular reseller reseller popular reseller reseller popular reseller reselle

Selling Resource<sup>C</sup>

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

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

Supplying Resource<sup>C</sup>

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole pop value supplier actor supplier actor

Updating Resource <sup>C</sup>

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

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole populater actor

Using Resource <sup>C</sup>

Sub Class Of actorODP:ResourceRelation C

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

Viewing Resource<sup>C</sup>

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

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

Actor <sup>C</sup>

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

Capability <sup>C</sup>

In Domain Of

capabilityExtent op

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:participatingResource op some

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

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

ConsumingResource C
IssuingResource C
OwningResource C
ProducingResource C
ProvidingResource C
ResellingResource C
SellingResource C
SupplyingResource C
UpdatingResource C
UsingResource C
ViewingResource C

Role <sup>C</sup>

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

**Super Class Of** 

ActorCollaborationRole C ActorResourceRole C 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>

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	
participatin	g resource <sup>op</sup>	
IRI	<pre>http://w3id.org/CEON/ontology/actorODP/participatingResour ce</pre>	
participatio	n in <sup>op</sup>	
IRI	http://w3id.org/CEON/ontology/actorODP/participationIn	

# **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 <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 name	space prefix <sup>ap</sup>	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	

```
preferred namespace uriap

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
```