

# 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

### 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<sup>C</sup>

**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**

- [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>](#)
- [supplier<sup>ni</sup>](#)
- [updater<sup>ni</sup>](#)
- [user<sup>ni</sup>](#)
- [viewer<sup>ni</sup>](#)

## Buying Resource<sup>c</sup>

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

**Sub Class Of** [actorODP:ResourceRelation<sup>c</sup>](#)

**Equivalentclass** [actorODP:ResourceRelation<sup>c</sup>](#) *and* [actorODP:participantRole<sup>op</sup>](#) value [buyer<sup>c</sup>](#)

## Cvn Participation<sup>c</sup>

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

**Sub Class Of**

- [actorODP:CollaborationParticipation<sup>c</sup>](#)
- [actorODP:CollaborationParticipation<sup>c</sup>](#) *and* [actorODP:participantRole<sup>op</sup>](#) some [ActorCVNRole<sup>c</sup>](#) *and* [actorODP:participatingActor<sup>op</sup>](#) some [actorODP:Actor<sup>c</sup>](#) *and* [actorODP:participationIn<sup>op</sup>](#) some [http://w3id.org/CEON/ontology/cvn/CVN<sup>c</sup>](http://w3id.org/CEON/ontology/cvn/CVN)

## Consuming Resource<sup>c</sup>

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

**Sub Class Of** [actorODP:ResourceRelation<sup>c</sup>](#)

**Equivalentclass** [actorODP:participantRole<sup>op</sup>](#) value [consumer<sup>c</sup>](#) *and* [actorODP:ResourceRelation<sup>c</sup>](#)

## Issuing Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/IssuingResource">http://w3id.org/CEON/ontology/actor/IssuingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">issuer<sup>C</sup></a>

## Owning Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/OwningResource">http://w3id.org/CEON/ontology/actor/OwningResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">owner<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

## Process Participation<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ProcessParticipation">http://w3id.org/CEON/ontology/actor/ProcessParticipation</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:CollaborationParticipation<sup>C</sup></a> <a href="#">actorODP:participatingActor<sup>Op</sup></a> some <a href="#">actorODP:Actor<sup>C</sup></a> <i>and</i> <a href="#">actorODP:CollaborationParticipation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participationIn<sup>Op</sup></a> some <a href="http://w3id.org/CEON/ontology/process/Process">http://w3id.org/CEON/ontology/process/Process<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> some <a href="#">ActorCVNRole<sup>C</sup></a>

## Producing Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ProducingResource">http://w3id.org/CEON/ontology/actor/ProducingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">producer<sup>C</sup></a>

## Providing Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ProvidingResource">http://w3id.org/CEON/ontology/actor/ProvidingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">provider<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ResellingResource">http://w3id.org/CEON/ontology/actor/ResellingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">reseller<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/SellingResource">http://w3id.org/CEON/ontology/actor/SellingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">seller<sup>C</sup></a>

## Supplying Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/SupplyingResource">http://w3id.org/CEON/ontology/actor/SupplyingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">supplier<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/UpdatingResource">http://w3id.org/CEON/ontology/actor/UpdatingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">updater<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/UsingResource">http://w3id.org/CEON/ontology/actor/UsingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole<sup>Op</sup></a> value <a href="#">user<sup>C</sup></a>

## Viewing Resource<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ViewingResource">http://w3id.org/CEON/ontology/actor/ViewingResource</a>
<b><u>Sub Class Of</u></b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b><u>Equivalentclass</u></b>	<a href="#">actorODP:participantRole<sup>op</sup></a> value <a href="#">viewer<sup>C</sup></a> and <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

## Actor<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/Actor">http://w3id.org/CEON/ontology/actorODP/Actor</a>
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## Capability<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/Capability">http://w3id.org/CEON/ontology/actorODP/Capability</a>
<b><u>In Domain Of</u></b>	<a href="#">capabilityExtent<sup>op</sup></a> <a href="#">neededResourceRelation<sup>op</sup></a>

## Collaboration Participation<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/CollaborationParticipation">http://w3id.org/CEON/ontology/actorODP/CollaborationParticipation</a>
<b><u>Super Class Of</u></b>	<a href="#">CVNParticipation<sup>C</sup></a> <a href="#">ProcessParticipation<sup>C</sup></a>

## Participation<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/Participation">http://w3id.org/CEON/ontology/actorODP/Participation</a>
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## Resource Relation<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/ResourceRelation">http://w3id.org/CEON/ontology/actorODP/ResourceRelation</a>
<b>Sub Class Of</b>	<a href="#">actorODP:participatingResource</a> <sup>op</sup> some <a href="http://w3id.org/CEON/ontology/resourceODP/Resource">http://w3id.org/CEON/ontology/resourceODP/Resource</a> <sup>C</sup> and <a href="#">actorODP:participatingActor</a> <sup>op</sup> some <a href="#">actorODP:Actor</a> <sup>C</sup> and <a href="#">actorODP:participantRole</a> <sup>op</sup> some <a href="#">ActorResourceRole</a> <sup>C</sup> and <a href="#">actorODP:Participation</a> <sup>C</sup>
<b>Super Class Of</b>	<a href="#">BuyingResource</a> <sup>C</sup> <a href="#">ConsumingResource</a> <sup>C</sup> <a href="#">IssuingResource</a> <sup>C</sup> <a href="#">OwningResource</a> <sup>C</sup> <a href="#">ProducingResource</a> <sup>C</sup> <a href="#">ProvidingResource</a> <sup>C</sup> <a href="#">ResellingResource</a> <sup>C</sup> <a href="#">SellingResource</a> <sup>C</sup> <a href="#">SupplyingResource</a> <sup>C</sup> <a href="#">UpdatingResource</a> <sup>C</sup> <a href="#">UsingResource</a> <sup>C</sup> <a href="#">ViewingResource</a> <sup>C</sup>

## Role<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actorODP/Role">http://w3id.org/CEON/ontology/actorODP/Role</a>
<b>Super Class Of</b>	<a href="#">ActorCollaborationRole</a> <sup>C</sup> <a href="#">ActorResourceRole</a> <sup>C</sup>

## Cvn<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/CVN">http://w3id.org/CEON/ontology/cvn/CVN</a>
<b>Sub Class Of</b>	<a href="http://w3id.org/CEON/ontology/cvn/Collaboration">http://w3id.org/CEON/ontology/cvn/Collaboration</a> <sup>C</sup>

## Collaboration<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/cvn/Collaboration">http://w3id.org/CEON/ontology/cvn/Collaboration</a>
<b>Super Class Of</b>	<a href="http://w3id.org/CEON/ontology/cvn/CVN">http://w3id.org/CEON/ontology/cvn/CVN</a> <sup>C</sup>

## Process<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/processODP/Process">http://w3id.org/CEON/ontology/processODP/Process</a>
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## Resource<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/resourceODP/Resource>

## Object Properties

### capability extent<sup>op</sup>

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

**Sub Property Of** [actorODP:capabilityProperty<sup>op</sup>](#)

**Domain** [actorODP:Capability<sup>C</sup>](#)

### needed resource relation<sup>op</sup>

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

**Sub Property Of** [actorODP:capabilityProperty<sup>op</sup>](#)

**Domain** [actorODP:Capability<sup>C</sup>](#)

### capability property<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/capabilityProperty>

**Super Property Of**

- [capabilityExtent<sup>op</sup>](#)
- [neededResourceRelation<sup>op</sup>](#)

### participant role<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participantRole>

### participating actor<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participatingActor>

### participating resource<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participatingResource>



participation 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 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<sup>ap</sup>

<b>IRI</b>	<a href="http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements</a>
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## 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

<sup>c</sup>

Classes

<sup>op</sup>

Object Properties

<sup>ap</sup>

Annotation Properties