

# 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<sup>c</sup>

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**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>

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**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>

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

**Sub Class Of** [ActorCollaborationRole<sup>c</sup>](#)

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

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**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	<a href="http://w3id.org/CEON/ontology/actor/BuyingResource">http://w3id.org/CEON/ontology/actor/BuyingResource</a>
<u>Sub Class Of</u>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<u>Equivalentclass</u>	<a href="#">actorODP:participantRole</a> <sup>op</sup> value <a href="#">buyer<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

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

IRI	<a href="http://w3id.org/CEON/ontology/actor/CVNPparticipation">http://w3id.org/CEON/ontology/actor/CVNPparticipation</a>
<u>Sub Class Of</u>	<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:participationIn<sup>op</sup></a> some <a href="#">http://w3id.org/CEON/ontology/cvn/CVN<sup>C</sup></a> <i>and</i> <a href="#">actorODP:participantRole</a> <sup>op</sup> some <a href="#">ActorCVNRole<sup>C</sup></a> <i>and</i> <a href="#">actorODP:CollaborationParticipation<sup>C</sup></a>

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

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<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ConsumingResource">http://w3id.org/CEON/ontology/actor/ConsumingResource</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</a> <sup>op</sup> value <a href="#">consumer<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

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

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<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</a> <sup>op</sup> value <a href="#">issuer<sup>C</sup></a>

## Manufacturing Resource<sup>C</sup>

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<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ManufacturingResource">http://w3id.org/CEON/ontology/actor/ManufacturingResource</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</a> op value <a href="#">manufacturer<sup>C</sup></a>

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

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<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</a> op value <a href="#">owner<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

## 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:participatingActor<sup>op</sup>](#) some [actorODP:Actor<sup>C</sup>](#) *and* [actorODP:CollaborationParticipation<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:ResourceRelation<sup>C</sup>](#) *and* [actorODP:participantRole](#)  
<sup>op</sup> value [producer<sup>C</sup>](#)

## 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:participantRole</a> <sup>op</sup> value <a href="#">provider<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<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:participantRole</a> <sup>op</sup> value <a href="#">reseller<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a>



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

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<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</a> <sup>op</sup> value <a href="#">seller<sup>C</sup></a>

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

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<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</a> <sup>op</sup> 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> value <a href="#">updater<sup>C</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>C</sup></a></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> value <a href="#">user<sup>C</sup></a></a>

## Viewing Resource<sup>c</sup>

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<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</a> <sup>op</sup> value <a href="#">viewer<sup>c</sup></a> <i>and</i> <a href="#">actorODP:ResourceRelation<sup>c</sup></a>

## Actor<sup>c</sup>

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<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>

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<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</a> <sup>op</sup>

## Collaboration Participation<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/actor0DP/CollaborationParticipation>

### Super Class Of

[CVNParticipation<sup>c</sup>](#)  
[ProcessParticipation<sup>c</sup>](#)

## Participation<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/actor0DP/Participation>

## Resource Relation<sup>C</sup>

IRI

<http://w3id.org/CEON/ontology/actorODP/ResourceRelation>

Sub Class Of

[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> and](#)  
[actorODP:Participation<sup>C</sup> and](#)  
[actorODP:participatingActor<sup>op</sup> some](#)  
[actorODP:Actor<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>](#)  
[UpdatingResource<sup>C</sup>](#)  
[UsingResource<sup>C</sup>](#)  
[ViewingResource<sup>C</sup>](#)

## Role<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/actor0DP/Role>

**Super Class Of** [ActorCollaborationRole<sup>c</sup>](#)  
[ActorResourceRole<sup>c</sup>](#)

## Cvn<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/cvn/CVN>

**Sub Class Of** [http://w3id.org/CEON/ontology/cvn/Collaboration<sup>c</sup>](http://w3id.org/CEON/ontology/cvn/Collaboration)

## Collaboration<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/cvn/Collaboration>

**Super Class Of** [http://w3id.org/CEON/ontology/cvn/CVN<sup>c</sup>](http://w3id.org/CEON/ontology/cvn/CVN)

## Process<sup>c</sup>

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**IRI** <http://w3id.org/CEON/ontology/process0DP/Process>

## Resource<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/resourceODP/Resource">http://w3id.org/CEON/ontology/resourceODP/Resource</a>
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## Object Properties

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

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/capabilityExtent">http://w3id.org/CEON/ontology/actor/capabilityExtent</a>
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<b><u>Sub Property Of</u></b>	<a href="#"><u>actorODP:capabilityProperty<sup>op</sup></u></a>
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<b><u>Domain</u></b>	<a href="#"><u>actorODP:Capability<sup>c</sup></u></a>
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### needed resource relation<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/neededResourceRelation">http://w3id.org/CEON/ontology/actor/neededResourceRelation</a>
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<b><u>Sub Property Of</u></b>	<a href="#"><u>actorODP:capabilityProperty<sup>op</sup></u></a>
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<b><u>Domain</u></b>	<a href="#"><u>actorODP:Capability<sup>c</sup></u></a>
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## 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>

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**IRI** <http://purl.org/dc/terms/contributor>

created<sup>ap</sup>

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**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>

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**IRI** <http://purl.org/dc/terms/title>

preferred namespace prefix <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespacePrefix">http://purl.org/vocab/vann/preferredNamespacePrefix</a>
preferred namespace uri <sup>ap</sup>	
IRI	<a href="http://purl.org/vocab/vann/preferredNamespaceUri">http://purl.org/vocab/vann/preferredNamespaceUri</a>
covers requirements <sup>ap</sup>	
IRI	<a href="http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements</a>

## 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