

# 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 D3.2: C0-1, C0-2, C3-4, T3-4

## Classes

Actor Cvn Role <sup>c</sup>	
<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/actor/ActorCVNRole">http://w3id.org/CEON/ontology/actor/ActorCVNRole</a>
<b>Sub Class Of</b>	<a href="#">ActorCollaborationRole<sup>c</sup></a>
<b>Named Individuals</b>	<a href="#">collector<sup>ni</sup></a> <a href="#">dismantler<sup>ni</sup></a> <a href="#">manufacturer<sup>ni</sup></a> <a href="#">recycler<sup>ni</sup></a> <a href="#">reseller<sup>ni</sup></a> <a href="#">seller<sup>ni</sup></a> <a href="#">supplier<sup>ni</sup></a> <a href="#">user<sup>ni</sup></a>

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

**IRI** <http://w3id.org/CE0N/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/CE0N/ontology/actor/ActorProcessRole>

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

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

**IRI** <http://w3id.org/CE0N/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/CE0N/ontology/actor/BuyingResource>

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

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

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

**IRI** <http://w3id.org/CE0N/ontology/actor/CVNParticipation>

**Sub Class Of**  
[actorODP:CollaborationParticipation<sup>C</sup>](#)  
[actorODP:participationIn<sup>OP</sup>](#) some <http://w3id.org/CE0N/ontology/cvn/CVN<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>](#)

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/ConsumingResource">http://w3id.org/CE0N/ontology/actor/ConsumingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a> and <a href="#">actorODP:participantRole<sup>op</sup></a> value <a href="#">consumer<sup>c</sup></a>

## Issuing Resource<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/IssuingResource">http://w3id.org/CE0N/ontology/actor/IssuingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:participantRole<sup>op</sup></a> value <a href="#">issuer<sup>c</sup></a> and <a href="#">actorODP:ResourceRelation<sup>c</sup></a>

## Manufacturing Resource<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/ManufacturingResource">http://w3id.org/CE0N/ontology/actor/ManufacturingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a> and <a href="#">actorODP:participantRole<sup>op</sup></a> value <a href="#">manufacturer<sup>c</sup></a>

## Organisation<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/Organisation">http://w3id.org/CE0N/ontology/actor/Organisation</a>
<b>Is Defined By</b>	ISO 59004:2024 - 3.4.1 organization
<b>Description</b>	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.
<b>Sub Class Of</b>	<a href="#">actorODP:Actor<sup>c</sup></a>

## Owning Resource<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/OwningResource">http://w3id.org/CE0N/ontology/actor/OwningResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:ResourceRelation<sup>c</sup></a> and <a href="#">actorODP:participantRole<sup>op</sup></a> value <a href="#">owner<sup>c</sup></a>

## Person<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/actor/Person>

**Sub Class Of** [actorODP:Actor<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CE0N/ontology/actor/ProcessParticipation>

**Sub Class Of** [actorODP:CollaborationParticipation<sup>C</sup>](#)  
[actorODP:participationIn<sup>OP</sup>](#) some [http://w3id.org/CE0N/ontology/processODP/Process<sup>C</sup>](#) and  
[actorODP:participatingActor<sup>OP</sup>](#) some [actorODP:Actor<sup>C</sup>](#) and  
[actorODP:participantRole<sup>OP</sup>](#) some [ActorProcessRole<sup>C</sup>](#) and  
[actorODP:CollaborationParticipation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CE0N/ontology/actor/ProducingResource>

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

**Equivalentclass** [actorODP:participantRole<sup>OP</sup>](#) value [producer<sup>C</sup>](#) and [actorODP:ResourceRelation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CE0N/ontology/actor/ProvidingResource>

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

**Equivalentclass** [actorODP:participantRole<sup>OP</sup>](#) value [provider<sup>C</sup>](#) and [actorODP:ResourceRelation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CE0N/ontology/actor/ResellingResource>

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

**Equivalentclass** [actorODP:participantRole<sup>OP</sup>](#) value [reseller<sup>C</sup>](#) and [actorODP:ResourceRelation<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CE0N/ontology/actor/SellingResource>

**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>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/Stakeholder">http://w3id.org/CE0N/ontology/actor/Stakeholder</a>
<b>Is Defined By</b>	ISO 59004:2024 - 3.4.2 interested party, stakeholder
<b>Description</b>	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.
<b>Sub Class Of</b>	<a href="#">Organisation<sup>C</sup></a> or <a href="#">Person<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/SupplyingResource">http://w3id.org/CE0N/ontology/actor/SupplyingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:participantRole<sup>OP</sup></a> value <a href="#">supplier<sup>C</sup></a> and <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/UpdatingResource">http://w3id.org/CE0N/ontology/actor/UpdatingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:participantRole<sup>OP</sup></a> value <a href="#">updater<sup>C</sup></a> and <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/UsingResource">http://w3id.org/CE0N/ontology/actor/UsingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:participantRole<sup>OP</sup></a> value <a href="#">user<sup>C</sup></a> and <a href="#">actorODP:ResourceRelation<sup>C</sup></a>

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

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actor/ViewingResource">http://w3id.org/CE0N/ontology/actor/ViewingResource</a>
<b>Sub Class Of</b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a>
<b>Equivalentclass</b>	<a href="#">actorODP:ResourceRelation<sup>C</sup></a> and <a href="#">actorODP:participantRole<sup>OP</sup></a> value <a href="#">viewer<sup>C</sup></a>

## Actor<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CE0N/ontology/actorODP/Actor">http://w3id.org/CE0N/ontology/actorODP/Actor</a>
<b>Super Class Of</b>	<a href="#">Organisation<sup>C</sup></a> <a href="#">Person<sup>C</sup></a>

## Capability<sup>c</sup>

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

**In Domain Of** [capabilityExtent<sup>op</sup>](#)  
[neededResourceRelation<sup>op</sup>](#)

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

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

**Super Class Of** [CVNParticipation<sup>c</sup>](#)  
[ProcessParticipation<sup>c</sup>](#)

## 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:participatingActor<sup>op</sup>](#) some [actorODP:Actor<sup>c</sup>](#) and [actorODP:participantRole<sup>op</sup>](#) some [ActorResourceRole<sup>c</sup>](#) and [actorODP:participatingResource<sup>op</sup>](#) some [http://w3id.org/CEON/ontology/resourceODP/Resource<sup>c</sup>](http://w3id.org/CEON/ontology/resourceODP/Resource) and [actorODP:Participation<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>

**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/CE0N/ontology/cvn/CVN>

**Sub Class Of** <http://w3id.org/CE0N/ontology/cvn/Collaboration><sup>C</sup>

Collaboration<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/cvn/Collaboration>

**Super Class Of** <http://w3id.org/CE0N/ontology/cvn/CVN><sup>C</sup>

Process<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/processODP/Process>

Resource<sup>C</sup>

**IRI** <http://w3id.org/CE0N/ontology/resourceODP/Resource>

## Object Properties

capability extent<sup>OP</sup>

**IRI** <http://w3id.org/CE0N/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/CE0N/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/CE0N/ontology/actorODP/capabilityProperty>

**Super Property Of**

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

participant role<sup>OP</sup>

**IRI** <http://w3id.org/CE0N/ontology/actorODP/participantRole>

participating actor<sup>op</sup>

IRI <http://w3id.org/CE0N/ontology/actor0DP/participatingActor>

participating resource<sup>op</sup>

IRI <http://w3id.org/CE0N/ontology/actor0DP/participatingResource>

participation in<sup>op</sup>

IRI <http://w3id.org/CE0N/ontology/actor0DP/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>

**IRI** <http://www.ontologydesignpatterns.org/schemas/cannotation-schema.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/cannotationschema.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