

# 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/0.2/>

### 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>

**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>

|                       |   |
|-----------------------|---|
| <b>IRI</b>            | <a href="http://w3id.org/CEON/ontology/actor/ActorCollaborationRole">http://w3id.org/CEON/ontology/actor/ActorCollaborationRole</a> |
| <b>Sub Class Of</b>   | <a href="#">actorODP:Role<sup>c</sup></a>   |
| <b>Super Class Of</b> | <a href="#">ActorCVNRole<sup>c</sup></a><br><a href="#">ActorProcessRole<sup>c</sup></a>  |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/actor/ActorProcessRole">http://w3id.org/CEON/ontology/actor/ActorProcessRole</a> |
| <b>Sub Class Of</b> | <a href="#">ActorCollaborationRole<sup>c</sup></a>  |

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

|                          |   |
|--------------------------|---|
| <b>IRI</b>               | <a href="http://w3id.org/CEON/ontology/actor/ActorResourceRole">http://w3id.org/CEON/ontology/actor/ActorResourceRole</a>   |
| <b>Sub Class Of</b>      | <a href="#">actorODP:Role<sup>c</sup></a>   |
| <b>Named Individuals</b> | <a href="#">buyer<sup>ni</sup></a><br><a href="#">consumer<sup>ni</sup></a><br><a href="#">issuer<sup>ni</sup></a><br><a href="#">owner<sup>ni</sup></a><br><a href="#">producer<sup>ni</sup></a><br><a href="#">provider<sup>ni</sup></a><br><a href="#">reseller<sup>ni</sup></a><br><a href="#">seller<sup>ni</sup></a><br><a href="#">supplier<sup>ni</sup></a><br><a href="#">updater<sup>ni</sup></a><br><a href="#">user<sup>ni</sup></a><br><a href="#">viewer<sup>ni</sup></a> |

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

|                        |   |
|------------------------|---|
| <b>IRI</b>             | <a href="http://w3id.org/CEON/ontology/actor/BuyingResource">http://w3id.org/CEON/ontology/actor/BuyingResource</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="#">buyer<sup>c</sup></a> |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/actor/CVNParticipation">http://w3id.org/CEON/ontology/actor/CVNParticipation</a>   |
| <b>Sub Class Of</b> | <a href="#">actorODP:CollaborationParticipation<sup>c</sup></a><br><a href="#">actorODP:participantRole<sup>op</sup></a> some <a href="#">ActorCVNRole<sup>c</sup></a> and<br><a href="#">actorODP:participatingActor<sup>op</sup></a> some <a href="#">actorODP:Actor<sup>c</sup></a> and<br><a href="#">actorODP:participationIn<sup>op</sup></a> some <a href="http://w3id.org/CEON/ontology/cvn/CVN">http://w3id.org/CEON/ontology/cvn/CVN</a> and<br><a href="#">actorODP:CollaborationParticipation<sup>c</sup></a> |

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

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

## 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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>C</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:ResourceRelation<sup>C</sup> and actorODP:participantRole<sup>op</sup> value issuer<sup>C</sup></a> |

## Manufacturing Resource

|                        |   |
|------------------------|---|
| <b>IRI</b>             | <a href="http://w3id.org/CEON/ontology/actor/ManufacturingResource">http://w3id.org/CEON/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> and actorODP:participantRole<sup>op</sup> value manufacturer<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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>C</sup></a>   |
| <b>Equivalentclass</b> | <a href="#">actorODP:ResourceRelation<sup>C</sup> and actorODP:participantRole<sup>op</sup> value owner<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>Sub Class Of</b> | <a href="#">actorODP:CollaborationParticipation<sup>C</sup><br/>actorODP:participationIn<sup>op</sup> some<br/><a href="#">http://w3id.org/CEON/ontology/processODP/Process<sup>C</sup></a> and<br/>actorODP:participatingActor<sup>op</sup> some actorODP:Actor<sup>C</sup> and<br/>actorODP:participantRole<sup>op</sup> some ActorCVNRole<sup>C</sup> and<br/>actorODP:CollaborationParticipation<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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>C</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:ResourceRelation<sup>C</sup> and actorODP:participantRole<sup>op</sup> value 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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>c</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:participantRole<sup>op</sup> value provider<sup>c</sup> and 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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>c</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:ResourceRelation<sup>c</sup> and actorODP:participantRole<sup>op</sup> value 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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>c</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:participantRole<sup>op</sup> value seller<sup>c</sup> and actorODP:ResourceRelation<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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>c</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:participantRole<sup>op</sup> value supplier<sup>c</sup> and actorODP:ResourceRelation<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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>c</sup></a>   |
| <b>Equivalentclass</b> | <a href="#">actorODP:participantRole<sup>op</sup> value updater<sup>c</sup> and 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>Sub Class Of</b>    | <a href="#">actorODP:ResourceRelation<sup>c</sup></a>  |
| <b>Equivalentclass</b> | <a href="#">actorODP:participantRole<sup>op</sup> value user<sup>c</sup> and actorODP:ResourceRelation<sup>c</sup></a> |

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

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

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

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

## 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<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:participantRole<sup>op</sup>](#) some [ActorResourceRole<sup>c</sup>](#) and  
[actorODP:participatingActor<sup>op</sup>](#) some [actorODP:Actor<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/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>

**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>

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

## Resource<sup>c</sup>

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

## 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>                 |
| <b>Sub Property Of</b> <a href="#">actorODP:capabilityProperty<sup>op</sup></a>  |
| <b>Domain</b> <a href="#">actorODP:Capability<sup>c</sup></a>  |
| 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>     |
| <b>Sub Property Of</b> <a href="#">actorODP:capabilityProperty<sup>op</sup></a>  |
| <b>Domain</b> <a href="#">actorODP:Capability<sup>c</sup></a>  |
| capability property <sup>op</sup>  |
| <b>IRI</b> <a href="http://w3id.org/CEON/ontology/actorODP/capabilityProperty">http://w3id.org/CEON/ontology/actorODP/capabilityProperty</a>       |
| <b>Super Property Of</b>   |
| • <a href="#">capabilityExtent<sup>op</sup></a>  |
| • <a href="#">neededResourceRelation<sup>op</sup></a>  |
| participant role <sup>op</sup>   |
| <b>IRI</b> <a href="http://w3id.org/CEON/ontology/actorODP/participantRole">http://w3id.org/CEON/ontology/actorODP/participantRole</a>             |
| participating actor <sup>op</sup>  |
| <b>IRI</b> <a href="http://w3id.org/CEON/ontology/actorODP/participatingActor">http://w3id.org/CEON/ontology/actorODP/participatingActor</a>       |
| participating resource <sup>op</sup>   |
| <b>IRI</b> <a href="http://w3id.org/CEON/ontology/actorODP/participatingResource">http://w3id.org/CEON/ontology/actorODP/participatingResource</a> |
| participation in <sup>op</sup>   |
| <b>IRI</b> <a href="http://w3id.org/CEON/ontology/actorODP/participationIn">http://w3id.org/CEON/ontology/actorODP/participationIn</a>             |

## Annotation Properties

|   |
|---|
| contributor <sup>ap</sup>   |
| IRI <a href="http://purl.org/dc/terms/contributor">http://purl.org/dc/terms/contributor</a>   |
| created <sup>ap</sup>   |
| IRI <a href="http://purl.org/dc/terms/created">http://purl.org/dc/terms/created</a>   |
| creator <sup>ap</sup>   |
| IRI <a href="http://purl.org/dc/terms/creator">http://purl.org/dc/terms/creator</a>   |
| description <sup>ap</sup>   |
| IRI <a href="http://purl.org/dc/terms/description">http://purl.org/dc/terms/description</a>   |
| license <sup>ap</sup>   |
| IRI <a href="http://purl.org/dc/terms/license">http://purl.org/dc/terms/license</a>   |
| title <sup>ap</sup>   |
| IRI <a href="http://purl.org/dc/terms/title">http://purl.org/dc/terms/title</a>   |
| 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/cpannotation-schema.owl#coversRequirements">http://www.ontologydesignpatterns.org/schemas/cpannotation-schema.owl#coversRequirements</a> |

## Namespaces

:

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

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 |