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^C

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

Sub Class Of ActorCollaborationRole^C

Named Individuals

collectorⁿⁱ
dismantlerⁿⁱ
manufacturerⁿⁱ
recyclerⁿⁱ
resellerⁿⁱ
sellerⁿⁱ
supplierⁿⁱ
userⁿⁱ

Actor Collaboration Role C

Sub Class Of actorODP:Role^C

Super Class Of

ActorCVNRole^c
ActorProcessRole^c

Actor Process Role C

Sub Class Of ActorCollaborationRole^C

Actor Resource Role C

Sub Class Of actorODP:Role^C

Named Individuals

buyerni
consumerni
issuerni
ownerni
producerni
providerni
resellerni
sellerni
supplierni
updaterni
userni

Buying Resource ^C

Sub Class Of actorODP:ResourceRelation^C

<u>viewerⁿⁱ</u>

<u>Equivalentclass</u> <u>actorODP:ResourceRelation</u> and <u>actorODP:participantRole</u> op value <u>buyer</u> or <u>and actorODP:participantRole</u> of value <u>buyer</u> or <u>and actorODP:participantRole</u> or <u>and actorODP:participantRole</u> or <u>actorODP:participantRole</u> or <u>actorODP:ResourceRelation</u> or <u>actorODP:participantRole</u> or actorODP:participantRole or a

Cvn Participation ^c

http://w3id.org/CEON/ontology/actor/CVNParticipation

Sub Class Of

actorODP:CollaborationParticipationC

actorODP:participationIn^{op} some http://w3id.org/CEON/ontology/cvn/CVN and

actorODP:participatingActor^{op} some actorODP:Actor^c and

<u>actorODP:CollaborationParticipation</u>^C <u>and actorODP:participantRole</u>^{op} some

ActorCVNRole^C

Consuming Resource c

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole pop value consumer

С

Issuing Resource ^C

Sub Class Of actorODP:ResourceRelation^C

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

Manufacturing Resource ^C

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

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole op value

manufacturer ^c

Organisation ^c

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

Is Defined By ISO 59004:2024 - 3.4.1 organization

Description

Person or group of people that has its own functions with respo

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.

Sub Class Of actorODP:Actor^C

Owning Resource ^C

Sub Class Of actorODP:ResourceRelation^c

Equivalentclass actorODP:participantRole op value owner and actorODP:ResourceRelation actorODP:R

Person ^c

Sub Class Of actorODP:Actor^C

Process Participation ^C

Sub Class Of

actorODP:CollaborationParticipation^C

actorODP:participationIn^{op} some

http://w3id.org/CEON/ontology/processODP/Process^c and actorODP:participatingActor^{op} some actorODP:Actor^c and

actorODP:CollaborationParticipation^c and actorODP:participantRole^{op} some

ActorProcessRole^C

Producing Resource^C

Sub Class Of actorODP:ResourceRelation^C

<u>Equivalentclass</u> <u>actorODP:participantRole</u> op value <u>producer</u> and <u>actorODP:ResourceRelation</u>

Providing Resource^C

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole provider actorODP:

Reselling Resource ^C

Sub Class Of actorODP:ResourceRelation^C

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 rese

Selling Resource ^C

Sub Class Of actorODP:ResourceRelation^C

<u>Equivalentclass</u> <u>actorODP:participantRole^{op} value seller^c and actorODP:ResourceRelation^c</u>

Interested partyStakeholder ^c

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

Is Defined By ISO 59004:2024 - 3.4.2 interested party, stakeholder

Description

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.

Sub Class Of Organisation or Person or Person

Supplying Resource^C

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:participantRole op value supplier and actorODP:ResourceRelation actorOD

Updating Resource ^c

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole populater actorODP: participantRole populater actorODP: participantRole populater populater actorODP: participantRole populater populat

Using Resource ^c

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation and actorODP:participantRole op value user

Viewing Resource ^C

Sub Class Of actorODP:ResourceRelation^C

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

Actor ^c

Super Class Of

Organisation^c Person^c Capability ^C

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

In Domain Of

<u>capabilityExtent</u>^{op}

neededResourceRelation op

Collaboration Participation ^C

ipation

Super Class Of CVNParticipation^C

ProcessParticipation^C

Participation ^C

Resource Relation ^c

Sub Class Of actorODP:participantRole op some ActorResourceRole and

<u>actorODP:participatingActor^{op}</u> some <u>actorODP:Actor^c</u> and

 $\underline{actor ODP:} \underline{participating Resource}^{op} \, some \,$

http://w3id.org/CEON/ontology/resourceODP/Resource^c and

actorODP:Participation^C

Super Class Of

BuyingResource^C

ConsumingResource^C
IssuingResource^C
ManufacturingResource^C
OwningResource^C
ProducingResource^C
ProvidingResource^C
ResellingResource^C

SellingResource^C
SupplyingResource^C
UpdatingResource^C
UsingResource^C
ViewingResource^C

Role ^C

Super Class Of

ActorCollaborationRole^C
ActorResourceRole^C

Cvn^c

IRI http://w3id.org/CEON/ontology/cvn/CVN

Sub Class Of http://w3id.org/CEON/ontology/cvn/Collaboration

Collaboration ^C

Super Class Of http://w3id.org/CEON/ontology/cvn/CVN

Process ^c

IRI http://w3id.org/CEON/ontology/processODP/Process

Resource ^c

Object Properties

capability extent op

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

Sub Property Of actorODP:capabilityProperty op

Domain actorODP:Capability^C

needed resource relation op

Sub Property Of actorODP:capabilityProperty op

Domain actorODP:Capability^c

capability property op

Super Property Of

• capabilityExtentop

• neededResourceRelation op

participant role op

participating actor op		
IRI	http://w3id.org/CEON/ontology/actorODP/participatingActor	
participatir	ng resource ^{op}	
IRI	<pre>http://w3id.org/CEON/ontology/actorODP/participatingResour ce</pre>	
participatio	on in ^{op}	
IRI	http://w3id.org/CEON/ontology/actorODP/participationIn	

Annotation Properties

contributor ^{ap}		
IRI	http://purl.org/dc/terms/contributor	
created ^{ap}		
IRI	http://purl.org/dc/terms/created	
creator ^{ap}		
IRI	http://purl.org/dc/terms/creator	
description ^{ap}		
IRI	http://purl.org/dc/terms/description	
license ^{ap}		
IRI	http://purl.org/dc/terms/license	
title ^{ap}		
IRI	http://purl.org/dc/terms/title	
preferred namespace prefix ^{ap}		
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	

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
```