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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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 Circular Value Network role ^C

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

Description

The role(s) of an actor in a Circular Value Network, which is a specific type of

collaboration.

Sub Class Of Actor collaboration role^C

Named Individuals

collectorⁿⁱ
dismantlerⁿⁱ
manufacturerⁿⁱ
recyclerⁿⁱ
resellerⁿⁱ
sellerⁿⁱ
supplierⁿⁱ
userⁿⁱ

Actor collaboration role ^C

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

DescriptionThe roles of an actor involved in a collaboration.

Sub Class Of actorODP:Role^c

Super Class Of

Actor Circular Value Network role^c

Actor process role^c

Actor process role^C

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

DescriptionThe role(s) of an actor involved in a process.

Sub Class Of Actor collaboration role^C

Actor resource role ^C

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

DescriptionThe role(s) of an actor in relation to a resource.

Sub Class Of actorODP:Role^C

Named Individuals

buyerni
consumerni
issuerni
ownerni
producerni
providerni
resellerni
sellerni
supplierni
updaterni
userni
viewerni

Buying resource^C

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

DescriptionThe relation where the role of the actor is the buyer of a certain resource.

Sub Class Of Resource Relation^c

Equivalentclass actorODP:participantRole op value buyer and Resource Relation of the buyer of th

Circular Value Network Participation ^c

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

Description

A participation-relation, that represents the participation of an actor in a CVN with

a certain role. For instance, a specific company playing the role of recycler in a certain flow of a CVN. The participation may also be related to a certain time (or

time interval).

Sub Class Of actorODP:CollaborationParticipation^C

actorODP:participationIn^{op} some <u>Circular Value Network</u>^c and

actorODP:CollaborationParticipation^c and actorODP:participatingActor^{op} some actorODP:Actor^c and actorODP:participantRole^{op} some Actor Circular Value

Network role^C

Consuming resource^C

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

DescriptionThe relation where the role of the actor is the consumer of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass actorODP:participantRole op value consumer and Resource Relation actorODP:participantRole op value consumer acto

Issuing resource ^C

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

Description

The relation where the role of the actor is the issuer of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass actorODP:participantRole op value issuer and Resource Relation actorODP:participantRole op value issuer actorO

Owning resource ^C

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

Description

The relation where the role of the actor is the owner of a certain resource.

Sub Class Of Resource Relation^C

Equivalent class Resource Relation and actor ODP: participant Role op value owner ow

Process Participation ^C

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

DescriptionParticipation of a certain actor in a certain process, with a certain role. For

instance, a certain department of a recycling company having the role of quality controllant, or material sorter, in a certain recycling process. The participation may

also be given a time, e.g. a start and end time.

Sub Class Of actorODP:CollaborationParticipation^C

actorODP:participationIn^{op} some http://w3id.org/CEON/ontology/process/Process and actorODP:participaticipantRole^{op} some Actor Circular Value Network role^o and

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

actorODP:CollaborationParticipation^C

Producing resource ^C

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

DescriptionThe relation where the role of the actor is the producer of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass actorODP:participantRole op value producer and Resource Relation actorODP:participantRole op value producer actor actor

Providing resource ^C

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

DescriptionThe relation where the role of the actor is the provider of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass Resource Relation and actorODP:participantRole provider value provider

Reselling resource ^C

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

DescriptionThe relation where the role of the actor is the reseller of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass Resource Relation and actorODP:participantRole op value reseller

Selling resource^C

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

DescriptionThe relation where the role of the actor is the seller of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass Resource Relation and actorODP:participantRole value seller

Supplying resource ^C

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

DescriptionThe relation where the role of the actor is the supplier of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass Resource Relation and actorODP:participantRole popular supplier and actorODP:participantRole popular supplier and actorODP:participantRole popular supplier supplier

Updating resource^C

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

DescriptionThe relation where the role of the actor is the updater of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass Resource Relation and actorODP:participantRole value updater

Using resource ^C

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

DescriptionThe relation where the role of the actor is the user of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass actorODP:participantRole op value user and Resource Relation actorODP:participantRole op value user actorODP:participantRole o

Viewing resource ^c

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

DescriptionThe relation where the role of the actor is the viewer of a certain resource.

Sub Class Of Resource Relation^C

Equivalentclass Resource Relation and actorODP:participantRole viewer vi

Actor ^C

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

Capability ^C

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

In Domain Of

capability extent op

needed resource relations op

Collaboration Participation ^C

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

Super Class Of

Circular Value Network Participation^C

Process Participation^C

Participation ^C

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

Resource Relation^c

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

Description

A relation between a resource, an actor, and the role the actor has in relation to the resource. For instance, the role of owner that a certain actor takes for a certain resource for a certain period of time. Or the seller of a certain resource, until that resource has been sold, and the actor no longer has that role in relation to the resource.

Sub Class Of

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

and actorODP:participatingResource op some

http://w3id.org/CEON/ontology/resourceODP/Resource^c and actorODP:participantRole^{op} some Actor resource role^c

Super Class Of

Buying resource^C

Consuming resource^C

<u>Issuing resource</u>^c

Owning resource^C

Producing resource^c

Providing resource^C

Reselling resource^C

Selling resource^c

Supplying resource^c

Updating resource^c

Using resource^C

Viewing resource^C

Role^C

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

Super Class Of

Actor collaboration role^c Actor resource role^c

Circular Value Network^c

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

DescriptionA collaboration between actors that constitute a Circular Value Newtworks,

implicitly or explicitly set up.

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

Collaboration ^C

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

Super Class Of Circular Value Network^C

Process ^C

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

Resource ^C

IRI http://w3id.org/CEON/ontology/resourceODP/Resource

Object Properties

capability extent op

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

DescriptionThe extent of this capability, e.g. stating whether there are limist to the capability,

such as a maximum amount or size of something.

Sub Property Of actorODP:capabilityProperty op

Domain actorODP:Capability^C

needed resource relations op

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

Description

In order for an actor to have a capability, it needs to have certain resources, e.g.

materials, infrastrucutre, know-how, information etc.

Sub Property Of actorODP:capabilityProperty op

Domain actorODP:Capability^C

capability property op

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

Super Property Of

capability extent^{op}

needed resource relations op

participant role op

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

participating actor op

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

participating resource op

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

participation in ^{op}	
IRI	http://w3id.org/CEON/ontology/actorODP/participationIn

Annotation Properties

7 timotation i roperties		
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	
preferred namespace uri ^{ap}		
IRI	http://purl.org/vocab/vann/preferredNamespaceUri	

covers requirements ap

IRI

 $http://www.ontologydesign patterns.org/schemas/cpannotationschema.owl\#covers \ Requirements$

Namespaces

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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

Classes

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Object Properties

Annotation Properties

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