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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https://github.com/LiUSemWeb/CEON/blob/master/LICENSE

Version Iri

http://w3id.org/CEON/ontology/actor/0.1/actor/

Version Info

0.1

Preferred Namespace Prefix

actor

Preferred Namespace Uri

http://w3id.org/CEON/ontology/actor/0.1/actor/

Description

The Actor module of CEON (Circular Economy Ontology Network).

Covers Requirements

What are the roles of this actor in this circular value network/process/in relation to this resource?
What are the capabilities of this actor?

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

Actor collaboration role ^C

IRI	http://w3id.org/CEON/ontology/actor/ActorCollaborationRole
Description	The roles of an actor involved in a collaboration.
Sub Class Of	http://w3id.org/CEON/ontology/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
Description	The 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
Description	The role(s) of an actor in relation to a resource.
Sub Class Of	http://w3id.org/CEON/ontology/actorODP/Role ^C

Buying resource ^C

IRI	http://w3id.org/CEON/ontology/actor/BuyingResource
Description	The relation where the role of the actor is the buyer of a certain resource.
Sub Class Of	Resource Relation ^C
Equivalentclass	http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value *and* Resource Relation ^C

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

http://w3id.org/CEON/ontology/actorODP/CollaborationParticipation ^C
http://w3id.org/CEON/ontology/actorODP/participatingActor ^{op} some
and http://w3id.org/CEON/ontology/actorODP/participationIn ^{op} some
and http://w3id.org/CEON/ontology/actorODP/CollaborationParticipation ^C *and*
http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} some

Consuming resource ^C

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

Description

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

Sub Class Of Resource Relation ^C

Equivalentclass Resource Relation ^C *and* http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value

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 http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value
and Resource Relation ^C

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]

Equivalentclass   http://w3id.org/CEON/ontology/actorODP/participantRole [op] value
and Resource Relation [C]

Process Participation [C]

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

Description

Participation 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

http://w3id.org/CEON/ontology/actorODP/CollaborationParticipation [C]
http://w3id.org/CEON/ontology/actorODP/participatingActor [op] some
and http://w3id.org/CEON/ontology/actorODP/participantRole [op] some
and http://w3id.org/CEON/ontology/actorODP/participationIn [op] some
and http://w3id.org/CEON/ontology/actorODP/CollaborationParticipation [C]

Producing resource [C]

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

Description

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

Sub Class Of   Resource Relation [C]

Equivalentclass   Resource Relation [C] *and* http://w3id.org/CEON/ontology/actorODP/participantRole [op] value

Providing resource ^C

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

Description

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

Sub Class Of   Resource Relation ^C

Equivalentclass   Resource Relation ^C *and* http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value

Reselling resource ^C

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

Description

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

Sub Class Of   Resource Relation ^C

Equivalentclass   Resource Relation ^C *and* http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value

Selling resource ^C

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

Description

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

Sub Class Of   Resource Relation ^C

Equivalentclass   Resource Relation ^C *and* http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value

Supplying resource ^C

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

Description

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

Sub Class Of   Resource Relation ^C

Equivalentclass   Resource Relation ^C *and* http://w3id.org/CEON/ontology/actorODP/participantRole ^{op} value

Updating resource [C]

IRI	http://w3id.org/CEON/ontology/actor/UpdatingResource
Description	The relation where the role of the actor is the updater of a certain resource.
Sub Class Of	Resource Relation [C]
Equivalentclass	http://w3id.org/CEON/ontology/actorODP/participantRole [op] value *and* Resource Relation [C]

Using resource [C]

IRI	http://w3id.org/CEON/ontology/actor/UsingResource
Description	The relation where the role of the actor is the user of a certain resource.
Sub Class Of	Resource Relation [C]
Equivalentclass	http://w3id.org/CEON/ontology/actorODP/participantRole [op] value *and* Resource Relation [C]

Viewing resource [C]

IRI	http://w3id.org/CEON/ontology/actor/ViewingResource
Description	The relation where the role of the actor is the viewer of a certain resource.
Sub Class Of	Resource Relation [C]
Equivalentclass	Resource Relation [C] *and* http://w3id.org/CEON/ontology/actorODP/participantRole [op] value

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

http://w3id.org/CEON/ontology/actorODP/Participation^C *and*
http://w3id.org/CEON/ontology/actorODP/participatingActor^{op} some
and http://w3id.org/CEON/ontology/actorODP/participatingResource^{op} some
and http://w3id.org/CEON/ontology/actorODP/participantRole^{op} some

Super Class Of

    Buying resource^C
    Consuming resource^C
    Issuing resource^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

Description A collaboration between actors that constitute a Circular Value Newtworks, implicitly or explicitly set up.

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

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/process/Process

Resource ^C

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

Object Properties

capability extent ^{op}

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

Description The 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 http://w3id.org/CEON/ontology/actorODP/capabilityProperty ^{op}

Domain http://w3id.org/CEON/ontology/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	http://w3id.org/CEON/ontology/actorODP/capabilityProperty ^{op}
Domain	http://w3id.org/CEON/ontology/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

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.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements

Namespaces

actor

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