Circular Economy Ontology Network (CEON) - Actor Module

Metadata

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IRI
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http://w3id.org/CEON/ontology/ac
tor/

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 D2.3: C0-1, C0-2, C3-4, T3-4

Classes

Actor Cvn Role ^c	
IRI	http://w3id.org/CEO N/ontology/actor/Ac torCVNRole
Sub Class Of	ActorCollaborationRole C
Named Individuals	collector ⁿⁱ dismantler ⁿⁱ manufacturer ⁿⁱ recycler ⁿⁱ reseller ⁿⁱ seller ⁿⁱ supplier ⁿⁱ user ⁿⁱ

Actor Collaboration Role C

IRI http://w3id.org/CE0

N/ontology/actor/ActorCollaborationRol

e

Sub Class Of actorODP:Role^C

Super Class Of

ActorCVNRole^C
ActorProcessRole^C

Actor Process Role^C

IRI http://w3id.org/CE0

N/ontology/actor/Ac

torProcessRole

Sub Class Of ActorCollaborationRole^C

Actor Resource Role^C

IRI http://w3id.org/CEO

N/ontology/actor/Ac

torResourceRole

Sub Class Of actorODP:Role^C

Named Individuals

<u>buyer</u>ni

<u>consumer</u>ⁿⁱ issuerⁿⁱ

<u>ownerⁿⁱ</u>

<u>producer</u>ⁿⁱ

<u>provider</u>ni resellerⁿⁱ

<u>seller</u>ni

<u>supplierⁿⁱ</u>

<u>updater</u>ni userⁿⁱ

viewerⁿⁱ

Buying Resource^C

IRI http://w3id.org/CEO

N/ontology/actor/Bu

yingResource

actorODP:ResourceRelat **Sub Class Of**

ion^C

actorODP:ResourceRelat **Equivalent class**

ion^c and

actorODP:participantRole

op value <u>buyer</u>c

Cvn Participation ^c

http://w3id.org/CE0

N/ontology/actor/CV

NParticipation

Sub Class Of actorODP:CollaborationP

articipation ^c

actorODP:CollaborationP

articipation^c and

actorODP:participantRole
op some ActorCVNRole

and

actorODP:participationIn

op some

http://w3id.org/CEON/ont

ology/cvn/CVN^c and

actorODP:participatingAc

tor^{op} some

actorODP:Actor^C

Consuming Resource ^C

http://w3id.org/CE0

N/ontology/actor/ConsumingResource

Sub Class Of <u>actorODP:ResourceRelat</u>

<u>ion</u>^C

Equivalentclass <u>actorODP:ResourceRelat</u>

ion^c and

actorODP:participantRole

^{op} value consumer^c

Issuing Resource^C

http://w3id.org/CE0

N/ontology/actor/Is

suingResource

Sub Class Of actorODP:ResourceRelat

ion^C

Equivalentclass <u>actorODP:ResourceRelat</u>

ion^c and

actorODP:participantRole

^{op} value <u>issuer</u>^c

Manufacturing Resource ^c

IRI http://w3id.org/CE0

N/ontology/actor/Ma nufacturingResource

Sub Class Of <u>actorODP:ResourceRelat</u>

ion^c

Equivalentclass <u>actorODP:participantRole</u>

op value manufacturer c

and

actorODP:ResourceRelat

ion^C

Organisation ^C

http://w3id.org/CE0

N/ontology/actor/Or

ganisation

Is Defined By ISO 59004:2024 - 3.4.1

organization

Description

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

Sub Class Of

actorODP:Actor C

own objectives.

organization that has, alone or collectively,their

Owning Resource ^C

IRI http://w3id.org/CE0

N/ontology/actor/Ow

ningResource

Sub Class Of actorODP:ResourceRelat

ion^C

Equivalentclass <u>actorODP:participantRole</u>

^{op} value <u>owner^c</u> and

actorODP:ResourceRelat

<u>ion</u>^C

Person^C

http://w3id.org/CE0

N/ontology/actor/Pe

rson

Sub Class Of actorODP:Actor^C

Process Participation ^C

IRI http://w3id.org/CE0

N/ontology/actor/ProcessParticipation

Sub Class Of actorODP:CollaborationP

articipation ^C

actorODP:CollaborationP

articipation^c and

actorODP:participatingAc

tor^{op} some

actorODP:Actor^c and actorODP:participationIn

op some

http://w3id.org/CEON/ont ology/processODP/Proce

ss^c and

actorODP:participantRole

op some

<u>ActorProcessRole^C</u>

Producing Resource^C

http://w3id.org/CE0

N/ontology/actor/Pr oducingResource

Sub Class Of actorODP:ResourceRelat

<u>ion</u>^C

Equivalentclass <u>actorODP:ResourceRelat</u>

ion^c and

actorODP:participantRole

op value producer^c

Providing Resource^C

http://w3id.org/CE0

N/ontology/actor/ProvidingResource

Sub Class Of actorODP:ResourceRelat

ion^C

Equivalentclass <u>actorODP:participantRole</u>

^{op} value <u>provider</u> and <u>actorODP:ResourceRelat</u>

ion^c

Reselling Resource^C

IRI http://w3id.org/CE0

N/ontology/actor/Re sellingResource

Sub Class Of actorODP:ResourceRelat

<u>ion</u>^c

Equivalentclass <u>actorODP:participantRole</u>

^{op} value <u>reseller</u> ^c and <u>actorODP:ResourceRelat</u>

ion^c

Selling Resource^C

IRI http://w3id.org/CE0

N/ontology/actor/Se

llingResource

Sub Class Of actorODP:ResourceRelat

ion^C

Equivalent class actorODP:participantRole

^{op} value <u>seller^c</u> and

actorODP:ResourceRelat

ion^c

Interested partyStakeholder^C

IRI http://w3id.org/CE0

N/ontology/actor/St

akeholder

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 c

Supplying Resource^C

http://w3id.org/CE0

N/ontology/actor/SupplyingResource

Sub Class Of actorODP:ResourceRelat

ion^C

Equivalentclass <u>actorODP:participantRole</u>

^{op} value <u>supplier</u> and <u>actorODP:ResourceRelat</u>

ion^C

Updating Resource ^C

IRI http://w3id.org/CE0

N/ontology/actor/Up

datingResource

Sub Class Of actorODP:ResourceRelat

ion^c

Equivalentclass <u>actorODP:ResourceRelat</u>

ion^c and

actorODP:participantRole

op value <u>updater</u>^c

Using Resource ^C

http://w3id.org/CE0

N/ontology/actor/Us

ingResource

Sub Class Of actorODP:ResourceRelat

ion^C

Equivalentclass <u>actorODP:ResourceRelat</u>

ion^c and

actorODP:participantRole

^{op} value <u>user</u>^c

Viewing Resource^C

http://w3id.org/CE0

N/ontology/actor/Vi

ewingResource

Sub Class Of actorODP:ResourceRelat

<u>ion</u>^c

Equivalentclass <u>actorODP:participantRole</u>

^{op} value <u>viewer^c</u> and

actorODP:ResourceRelat

ion^c

Actor ^C

http://w3id.org/CE0

N/ontology/actorODP

/Actor

Super Class Of

Organisation ^C

Person^C

Capability ^C

IRI http://w3id.org/CEO

N/ontology/actorODP

/Capability

In Domain Of

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

neededResourceRelation

ор

Collaboration Participation ^C

IRI http://w3id.org/CEO

> N/ontology/actorODP /CollaborationParti

cipation

Super Class Of

<u>CVNParticipation</u>^C <u>ProcessParticipation</u>^C

Participation ^C

IRI http://w3id.org/CEO

N/ontology/actorODP

/Participation

Resource Relation^C

http://w3id.org/CE0

N/ontology/actorODP/ResourceRelation

Sub Class Of <u>actorODP:participatingRe</u>

source op some

http://w3id.org/CEON/ontology/resourceODP/Reso

urce^c and

actorODP:Participation ^C

and

actorODP:participatingAc

tor^{op} some

actorODP:Actor^c and actorODP:participantRole

op some

<u>ActorResourceRole</u>^C

Super Class Of

<u>BuyingResource</u>^C

ConsumingResource C

<u>IssuingResource</u>^C

ManufacturingResource^C

OwningResource^C
ProducingResource^C

ProvidingResource C

ResellingResource^C

<u>SellingResource</u>^C

<u>SupplyingResource</u>^C

<u>UpdatingResource</u>^C

<u>UsingResource</u>^C

<u>ViewingResource</u>^C

Role^C

http://w3id.org/CE0

N/ontology/actorODP

/Role

Super Class Of

<u>ActorCollaborationRole^C</u>

ActorResourceRole^C

Cvn^c

http://w3id.org/CE0

N/ontology/cvn/CVN

Sub Class Of http://w3id.org/CEON/ont

ology/cvn/Collaboration^C

Collaboration ^C

http://w3id.org/CE0

N/ontology/cvn/Coll

aboration

Super Class Of http://w3id.org/CEON/ont

ology/cvn/CVN^C

Process^C

http://w3id.org/CE0

N/ontology/process0

DP/Process

Resource ^C

http://w3id.org/CE0

N/ontology/resource

ODP/Resource

Object Properties

capability extent op

http://w3id.org/CE0

N/ontology/actor/ca

pabilityExtent

Sub Property Of <u>actorODP:capabilityProp</u>

<u>erty</u>op

Domain actorODP:Capability^C

needed resource relation op

http://w3id.org/CE0

N/ontology/actor/ne ededResourceRelatio

n

Sub Property Of <u>actorODP:capabilityProp</u>

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

Domain actorODP:Capability^C

capability property op

IRI http://w3id.org/CE0

N/ontology/actorODP /capabilityProperty

Super Property Of

capabilityExtent^{op}

neededResourceRe

<u>lation</u>op

participant role op

http://w3id.org/CE0

N/ontology/actorODP /participantRole

participating actor op

IRI http://w3id.org/CE0

N/ontology/actorODP /participatingActor

participating resource op

http://w3id.org/CE0

N/ontology/actorODP /participatingResou

rce

participation in op

IRI http://w3id.org/CE0

N/ontology/actorODP /participationIn

Annotation Properties

contributorap	
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

http://purl.org/voc

ab/vann/preferredNa

mespacePrefix

preferred namespace uri ap

IRI http://purl.org/voc

ab/vann/preferredNa

mespaceUri

covers requirements ap

IRI http://www.ontology

designpatterns.org/
schemas/cpannotatio
nschema.owl#coversR

equirements

Namespaces

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:
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http://w3id.org/CEON/ontology/ac
tor/

actorODP

http://w3id.org/CEON/ontology/ac
torODP/

dcterms

http://purl.org/dc/terms/

odp

http://www.ontologydesignpattern
s.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 Clas ses

Object Properties

Annotati on Properties
```