Circular Economy Ontology Network (CEON) - Actor Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Actor Module

Publisher

Onto-DESIDE

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Version Iri

http://w3id.org/CEON/ontology/actor/0.4/

Version Info

0.4

Prior Version

0.3

Preferred Namespace Prefix

ceon-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	collector [ni]
	dismantler [ni]
	manufacturer [ni]
	recycler [ni]
	reseller [ni]
	seller [ni]
	supplier [ni]
	user [ni]

Actor Collaboration Role [C]

IRI	`http://w3id.org/CEON/ontology/actor/ActorCollaborationRole`
Sub Class Of	actorODP:Role [C]
Super Class Of	ActorCVNRole [C]
	ActorProcessRole [C]

Actor Process Role [C]

IRI	`http://w3id.org/CEON/ontology/actor/ActorProcessRole`
Sub Class Of	ActorCollaborationRole [C]

Actor Resource Role [C]

IRI	`http://w3id.org/CEON/ontology/actor/ActorResourceRole`
Sub Class Of	actorODP:Role [C]
Named Individuals	buyer [ni]
	consumer [ni]
	issuer [ni]
	owner [ni]
	producer [ni]
	provider [ni]
	repairer [ni]
	reseller [ni]
	seller [ni]
	supplier [ni]
	updater [ni]
	user [ni]
	viewer [ni]

Buying Resource ^C

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

Sub Class Of   actorODP:ResourceRelation ^C

Equivalentclass   actorODP:participantRole ^{op} value buyer ^C *and* actorODP:ResourceRelation ^C

Cvn Participation ^C

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

Sub Class Of

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

Consuming Resource ^C

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

Sub Class Of   actorODP:ResourceRelation ^C

Equivalentclass   actorODP:ResourceRelation ^C *and* actorODP:participantRole ^{op} value consumer ^C

Dismantling Resource ^C

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

Sub Class Of   actorODP:ResourceRelation ^C

Equivalentclass   actorODP:ResourceRelation ^C *and* actorODP:participantRole ^{op} value dismantler ^C

Issuing Resource ^C

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

Sub Class Of   actorODP:ResourceRelation ^C

Equivalentclass   actorODP:participantRole ^{op} value issuer ^C *and* actorODP:ResourceRelation ^C

Manufacturing Resource ^C

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

Sub Class Of   actorODP:ResourceRelation ^C

Equivalentclass   actorODP:participantRole ^{op} value manufacturer ^C *and*
actorODP:ResourceRelation ^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 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 hasOrganisationLocation ^{op} some OrganisationLocation ^C *and* hasOrganisationLocation ^{op} only OrganisationLocation ^C
In Domain Of	hasOrganisationLocation ^{op} hasOrganisationName ^{dp}
Restriction	hasOrganisationName ^{dp} some Organisation ^C

Organisation Location ^C

IRI	`http://w3id.org/CEON/ontology/actor/OrganisationLocation`
Sub Class Of	http://w3id.org/CEON/ontology/location/Location ^C
In Range Of	hasOrganisationLocation ^{op}

Owning Resource ^C

IRI	`http://w3id.org/CEON/ontology/actor/OwningResource`
Sub Class Of	actorODP:ResourceRelation ^C
Equivalentclass	actorODP:ResourceRelation ^C *and* actorODP:participantRole ^{op} value owner ^C

Person ^C

IRI	`http://w3id.org/CEON/ontology/actor/Person`
Sub Class Of	actorODP:Actor ^C

Process Participation ^C

IRI	http://w3id.org/CEON/ontology/actor/ProcessParticipation
Sub Class Of	actorODP:CollaborationParticipation ^C actorODP:participatingActor ^{op} some actorODP:Actor ^C *and* actorODP:participationIn ^{op} some http://w3id.org/CEON/ontology/processODP/Process ^C *and* actorODP:CollaborationParticipation ^C *and* actorODP:participantRole ^{op} some ActorProcessRole ^C

Producing Resource ^C

IRI	http://w3id.org/CEON/ontology/actor/ProducingResource
Sub Class Of	actorODP:ResourceRelation ^C
Equivalentclass	actorODP:participantRole ^{op} value producer ^C *and* actorODP:ResourceRelation ^C

Providing Resource ^C

IRI	http://w3id.org/CEON/ontology/actor/ProvidingResource
Sub Class Of	actorODP:ResourceRelation ^C
Equivalentclass	actorODP:ResourceRelation ^C *and* actorODP:participantRole ^{op} value provider ^C

Recycling Resource ^C

IRI	http://w3id.org/CEON/ontology/actor/RecyclingResource
Sub Class Of	actorODP:ResourceRelation ^C
Equivalentclass	actorODP:participantRole ^{op} value recycler ^C *and* actorODP:ResourceRelation ^C

Repairing Resource ^C

IRI	http://w3id.org/CEON/ontology/actor/RepairingResource
Sub Class Of	actorODP:ResourceRelation ^C
Equivalentclass	actorODP:ResourceRelation ^C *and* actorODP:participantRole ^{op} value repairer ^C

Reselling Resource ^C

IRI	http://w3id.org/CEON/ontology/actor/ResellingResource
Sub Class Of	actorODP:ResourceRelation ^C
Equivalentclass	actorODP:participantRole ^{op} value reseller ^C *and* actorODP:ResourceRelation ^C

Selling Resource ^C

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

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:participantRole^{op} value seller^C *and* actorODP:ResourceRelation^C

Stakeholder ^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^C *or* Person^C

Supplying Resource ^C

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

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation^C *and* actorODP:participantRole^{op} value supplier^C

Taking Back Resource ^C

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

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation^C *and* actorODP:participantRole^{op} value collector^C

Updating Resource ^C

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

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:participantRole^{op} value updater^C *and* actorODP:ResourceRelation^C

Using Resource ^C

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

Sub Class Of actorODP:ResourceRelation^C

Equivalentclass actorODP:ResourceRelation^C *and* actorODP:participantRole^{op} value user^C

Viewing Resource [C]

IRI	`http://w3id.org/CEON/ontology/actor/ViewingResource`
Sub Class Of	actorODP:ResourceRelation [C]
Equivalentclass	actorODP:participantRole [op] value viewer [C] *and* actorODP:ResourceRelation [C]

Actor [C]

IRI	`http://w3id.org/CEON/ontology/actorODP/Actor`
Super Class Of	Organisation [C] Person [C]

Capability [C]

IRI	`http://w3id.org/CEON/ontology/actorODP/Capability`
In Domain Of	capabilityExtent [op] neededResourceRelation [op]

Collaboration Participation [C]

IRI	`http://w3id.org/CEON/ontology/actorODP/CollaborationPartic ipation`
Super Class Of	CVNParticipation [C] ProcessParticipation [C]

Participation [C]

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

Resource Relation ^C

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

Sub Class Of actorODP:participatingActor ^{op} some actorODP:Actor ^C *and*
actorODP:participantRole ^{op} some ActorResourceRole ^C *and*
actorODP:participatingResource ^{op} some
http://w3id.org/CEON/ontology/resourceODP/Resource ^C *and*
actorODP:Participation ^C

Super Class Of

BuyingResource ^C
ConsumingResource ^C
DismantlingResource ^C
IssuingResource ^C
ManufacturingResource ^C
OwningResource ^C
ProducingResource ^C
ProvidingResource ^C
RecyclingResource ^C
RepairingResource ^C
ResellingResource ^C
SellingResource ^C
SupplyingResource ^C
TakingBackResource ^C
UpdatingResource ^C
UsingResource ^C
ViewingResource ^C

Role ^C

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

Super Class Of

ActorCollaborationRole ^C
ActorResourceRole ^C

Cvn ^C

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

Location ^C

IRI http://w3id.org/CEON/ontology/location/Location

Super Class Of OrganisationLocation ^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`
Sub Property Of	actorODP:capabilityProperty ^{op}
Domain	actorODP:Capability ^c

has organisation location ^{op}

IRI	`http://w3id.org/CEON/ontology/actor/hasOrganisationLocation`
Sub Property Of	http://w3id.org/CEON/ontology/location/hasLocation ^{op}
Domain	Organisation ^c
Range	OrganisationLocation ^c

needed resource relation ^{op}

IRI	`http://w3id.org/CEON/ontology/actor/neededResourceRelation`
Sub Property Of	actorODP:capabilityProperty ^{op}
Domain	actorODP:Capability ^c

capability property ^{op}

IRI	`http://w3id.org/CEON/ontology/actorODP/capabilityProperty`
Super Property Of	• capabilityExtent ^{op} • neededResourceRelation ^{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

has location ^{op}

IRI	http://w3id.org/CEON/ontology/location/hasLocation
Super Property Of	hasOrganisationLocation ^{op}

Datatype Properties

has organisation name ^{dp}

IRI	http://w3id.org/CEON/ontology/actor/hasOrganisationName
Domain	Organisation ^c
Range	xsd:string

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

issued ^{ap}

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

license ^{ap}

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

publisher ap	
IRI	http://purl.org/dc/terms/publisher

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/cpannotation schema.owl#coversRequirements

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/

xsd

http://www.w3.org/2001/XMLSchema#

Legend

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties

c	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties