Circular Economy Ontology Network (CEON) - Resource ODP

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Resource ODP

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License

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

Version Iri

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

Version Info

0.1

Preferred Namespace Prefix

resourceODP

Preferred Namespace Uri

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

Description

A core ODP of the CEON ontology network defining aspects of the resource concept.

Covers Requirements

Covers the following requirements from Onto-DESIDE D3.1: CVN-Resource-1,3, CVN-Composition-1,2, CVN-ResrouceType-4, C7-3, E2-2, E4-6, E5-1, E6-3, T3-1.

Classes

Constituent ^C

IRI	http://w3id.org/CEON/ontology/resourceODP/Constituent
Description	A constituent is a component of object.
In Range Of	hasConstituent ^{op}

Information ^C

IRI	http://w3id.org/CEON/ontology/resourceODP/Information
Sub Class Of	Resource ^C

Matter^C

IRI `http://w3id.org/CEON/ontology/resourceODP/Matter`

Description A matter is a physical substance.

In Range Of hasMatter^{op}

PhysicalObject^C

IRI `http://w3id.org/CEON/ontology/resourceODP/PhysicalObject`

Description A physical object is a collection of matter.

Sub Class Of
Resource^C
hasConstituent^{op} only Constituent^C *and* hasConstituent^{op} some Constituent^C
hasMatter^{op} some Matter^C *and* hasMatter^{op} only Matter^C

In Domain Of
hasConstituent^{op}
hasMatter^{op}

Resource^C

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

Description A resource able to be handled in the context of a circular value network, e.g. data generated by software systems in the CVN, materials or prooducts as physical objects handled in the CVN.

Super Class Of
Information^C
PhysicalObject^C

Object Properties

hasConstituent^{op}

IRI `http://w3id.org/CEON/ontology/resourceODP/hasConstituent`

Description hasConstitutent intends to represent that a physical object can have a collection of composing components.

Domain PhysicalObject^C

Range Constituent^C

hasMatter ^{op}

IRI	http://w3id.org/CEON/ontology/resourceODP/hasMatter
Description	hasMatter intends to represent that a physical object can have a collection of matter.
Domain	PhysicalObject ^c
Range	Matter ^c

Annotation Properties

description ^{ap}

IRI	http://purl.org/dc/elements/1.1/description

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/cpannotation schema.owl#coversRequirements`

Namespaces

:

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

dc

    `http://purl.org/dc/elements/1.1/`

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