

Process ODP

Metadata

IRI

<http://w3id.org/CEON/ontology/processODP/>

Title

Process ODP

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Date Created

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License

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

Version Iri

<http://w3id.org/CEON/ontology/processODP/0.1/>

Version Info

0.1

Preferred Namespace Prefix

processODP

Preferred Namespace Uri

<http://w3id.org/CEON/ontology/processODP/>

Description

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

Covers Requirements

Covers the following requirements from Onto-DESIDe D3.1: CVN-Process-3,4,5, CVN-Input/Output-1,3,4, C3-1, C4-2, C4-5, C4-7, C4-9, C13-2, E2-6

Classes

Process Participation^c

IRI	http://w3id.org/CEON/ontology/actor/ProcessParticipation
<u>Restriction</u>	actorODP:participationIn ^{op} some

Process^c

IRI	http://w3id.org/CEON/ontology/processODP/Process
<u>Description</u>	An activity in the context of a circular value network, handling resources.
<u>In Domain Of</u>	has part ^{op} hasProcessExecution ^{op} hasProcessType ^{op} next process ^{op}
<u>In Range Of</u>	has part ^{op} next process ^{op}
<u>Super Class Of</u>	Transformation ^c

ProcessExecution^c

IRI	http://w3id.org/CEON/ontology/processODP/ProcessExecution
<u>Description</u>	An execution of a specific process.
<u>In Range Of</u>	hasProcessExecution ^{op}

ProcessType^c

IRI	http://w3id.org/CEON/ontology/processODP/ProcessType
<u>Description</u>	The type of a process.
<u>In Range Of</u>	hasProcessType ^{op}

Situation^c

IRI	http://w3id.org/CEON/ontology/processODP/Situation
Description	A situation that may involve some resources and actors, i.e. a state of affairs at a certain point in time.
In Domain Of	is the setting for ^{op}
In Range Of	initial situation ^{op} resulting situation ^{op}

Transformation^c

IRI	http://w3id.org/CEON/ontology/processODP/Transformation
Description	A process that transforms some situation into another situation, i.e. changes the state of affairs of some actor, resource etc.
Sub Class Of	Process ^c
In Domain Of	has input ^{op} has output ^{op} initial situation ^{op} occurs in location ^{op} resulting situation ^{op}

Resource^c

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

participation in^{op}

IRI	http://w3id.org/CEON/ontology/actorODP/participationIn
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has input^{op}

IRI <http://w3id.org/CEON/ontology/processODP/hasInput>

Description The situation before the transformation takes place, i.e. the state of affairs before the process takes places, such as the set of components before they are assembled into a product.

Domain [Transformation^c](#)

has output^{op}

IRI <http://w3id.org/CEON/ontology/processODP/hasOutput>

Description The output situation of a transformation, i.e. the state of affairs after the transformation took place.

Domain [Transformation^c](#)

has part^{op}

IRI <http://w3id.org/CEON/ontology/processODP/hasPart>

Description A process can consists of several part, which are sub-processes.

Domain [Process^c](#)

Range [Process^c](#)

hasProcessExecution^{op}

IRI <http://w3id.org/CEON/ontology/processODP/hasProcessExecution>

Description A process can have specific executions.

Domain [Process^c](#)

Range [ProcessExecution^c](#)

hasProcessType^{op}

IRI <http://w3id.org/CEON/ontology/processODP/hasProcessType>

Description The type of the process.

Domain [Process](#)^c

Range [ProcessType](#)^c

initial situation^{op}

IRI <http://w3id.org/CEON/ontology/processODP/initialSituation>

Description The situation before executing a process.

Domain [Transformation](#)^c

Range [Situation](#)^c

is the setting for^{op}

IRI <http://w3id.org/CEON/ontology/processODP/isSettingFor>

Description The thing(s) that this situation is the setting for, e.g. a resource that is in a certain state.

Domain [Situation](#)^c

next process^{op}

IRI <http://w3id.org/CEON/ontology/processODP/nextProcess>

Description A relation between one process and the next one following it in some sequence of processes, e.g. a sequence of transformations in a material flow.

Domain [Process](#)^c

Range [Process](#)^c

occurs in location^{op}

IRI	http://w3id.org/CEON/ontology/processODP/occursInLocation
Description	The location in which a transformation takes place, e.g. the factory location where something is manufactured.
Domain	Transformation^c

resulting situation^{op}

IRI	http://w3id.org/CEON/ontology/processODP/resultingSituation
Description	The situation after the execution of a process.
Domain	Transformation^c
Range	Situation^c

Annotation Properties

contributor^{ap}

IRI	http://purl.org/dc/terms/contributor
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created^{ap}

IRI	http://purl.org/dc/terms/created
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creator^{ap}

IRI	http://purl.org/dc/terms/creator
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description^{ap}

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

Namespaces

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<http://w3id.org/CEON/ontology/processODP/>

actor

<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#>

resourceODP

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

vann

<http://purl.org/vocab/vann/>

Legend

c

op

ap

Classes

Object Properties

Annotation Properties