Process ODP

Metadata

IRI

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

Title

Process ODP

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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

Restriction <u>actorODP:participationIn^op</u> some <u>actor:ProcessParticipation^op</u>

Process ^C

IRI http://w3id.org/CEON/ontology/processODP/Process

DescriptionAn activity in the context of a circular value network, handling resources.

In Domain Of has part^{op}

hasProcessExecution^{op} hasProcessType^{op} next process^{op}

In Range Of

has part^{op} next process^{op}

Super Class Of Transformation^C

ProcessExecution ^C

IRI http://w3id.org/CEON/ontology/processODP/ProcessExecution

DescriptionAn execution of a specific process.

In Range Of hasProcessExecution op

ProcessType ^C

IRI http://w3id.org/CEON/ontology/processODP/ProcessType

DescriptionThe type of a process.

In Range Of hasProcessType op

Situation ^C

IRI http://w3id.org/CEON/ontology/processODP/Situation

DescriptionA 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

Object Properties

participation in op

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

has input op

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

DescriptionThe 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

DescriptionThe output situation of a transformation, i.e. the state of affairs after the

transformation took place.

Domain <u>Transformation</u>^C

has part op

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

DescriptionA 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

DescriptionA process can have specific executions.

Domain Process^C

Range ProcessExecution^C

 $has Process Type \\ ^{op}$

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

DescriptionThe type of the process.

Domain Process^C

Range ProcessType^C

initial situation op

IRI http://w3id.org/CEON/ontology/processODP/intialSituation

DescriptionThe situation before executing a process.

Domain <u>Transformation</u>^c

Range Situation^c

is the setting for op

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

DescriptionThe 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

DescriptionThe location in which a transformation takes place, e.g. the factory location where

something is manufactured.

Domain <u>Transformation</u>^c

resulting situation op

IRI http://w3id.org/CEON/ontology/processODP/resultingSituation

DescriptionThe situation after the execution of a process.

Domain <u>Transformation</u>^C

Range Situation C

Annotation Properties

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

created ap

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

creatorap

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 nam	espace prefix ^{ap}		
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix		
preferred nam	espace uri ^{ap}		
IRI	http://purl.org/vocab/vann/preferredNamespaceUri		

Namespaces

resourceODP

vann

```
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#

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

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

Legend

С

ор ар Classes

Object Properties

Annotation Properties