Circular Economy Ontology Network (CEON) - Process ODP

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Process ODP

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Version Iri

http://w3id.org/CEON/ontology/processODP/0.3/

Version Info

0.3

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, C3-1, C4-2, C4-5, C4-7, C4-9, C13-2, E2-6

Classes

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

In Range Of occursAtLocation op

Process ^C

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

In Domain Of

hasInput^{op} hasOutput^{op} hasPart^{op}

has process execution op has Process Type op next Process op

In Range Of

hasPart^{op} nextProcess^{op}

Restriction has process execution op some Process c

Super Class Of Transformation^C

Process Execution ^C

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

In Domain Of

hasExecutionInput^{op}
hasExecutionOutput^{op}
intialSituation^{op}
nextExecution^{op}
occursAtLocation^{op}
resultingSituation^{op}
occursAtTime^{dp}

In Range Of

has process execution op

nextExecution op

Restriction

<u>hasExecutionInput</u>^{op} some <u>ProcessExecution</u>^c <u>hasExecutionOutput</u>^{op} some <u>ProcessExecution</u>^c

Super Class Of <u>TransformationExecution</u>^C

Process Type^C

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

In Range Of hasProcessType op

Situation ^C

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

In Domain Of isSettingFor op

In Range Of

intialSituation^{op} resultingSituation^{op}

Restriction <u>isSettingFor^{op}</u> some <u>Situation^c</u>

Transformation ^c

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

Sub Class Of Process^C

In Domain Of hasTransformationExecution op

Restriction <u>hasTransformationExecution op some Transformation Cartes and Transformation Cartes </u>

Transformation Execution ^c

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

Sub Class Of ProcessExecution^c

In Range Of hasTransformationExecution op

Object Properties

has execution input op

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

Domain ProcessExecution^C

has execution output op

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

Domain ProcessExecution^c

has input^{op}

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

Domain Process^C

has output op

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

Domain Process^C

has part op

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

Domain Process^c

Range Process^c

has process execution op

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

DescriptionA process can have specific executions.

Super Property Of hasTransformationExecution op

Domain Process^c

Range ProcessExecution^C

has process type op

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

Domain Process^c

Range ProcessType^c

has transformation execution op

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

Sub Property Of has process execution op

Domain <u>Transformation</u>^c

Range <u>TransformationExecution</u>^C

intial situation op

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

Domain ProcessExecution^C

Range Situation ^C

is setting for op

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

Domain Situation^C

next execution op

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

Domain ProcessExecution^c

Range ProcessExecution^C

next process op

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

Domain Process^C

Range Process^c

occurs at location op

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

Domain ProcessExecution^C

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

resulting situation op

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

Domain ProcessExecution^C

Range Situation C

Datatype Properties

occurs at time dp

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

Domain ProcessExecution^c

Range <u>xsd:dateTime</u>

Annotation Properties

contributor ap

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 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/cpannotationschema.owl#covers Requirements		

Namespaces

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

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/

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

Legend

xsd

c Classes

op Object Properties

dp Datatype Properties

ap Annotation Properties