Digital Product Passport Information Ontology

Metadata

IRI

http://w3id.org/dppo/ontology/dpp-info/

Title

Digital Product Passport Information Ontology

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License

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

Version Iri

http://w3id.org/dppo/ontology/dpp-info/0.1/

Version Info

0.1

Preferred Namespace Prefix

dpp-info

Preferred Namespace Uri

http://w3id.org/dppo/ontology/dpp-info/

Description

This is a minimal core ontology describing DPP information types.

Classes

Certificate Information ^C

IRI http://w3id.org/dppo/ontology/dpp-info/CertificateInformation

DescriptionA piece of information about some certificate that concerns the product.

Certificate information

Sub Class Of DPP information^C

In Domain Of certificate document op

Composition information ^c

IRI http://w3id.org/dppo/ontology/dpp-info/CompositionInformation

DescriptionA piece of information about the composition of a product, i.e. a relation between a

product and its part, potentially with more details of the composition included.

Sub Class Of DPP information C

DPP information ^C

IRI http://w3id.org/dppo/ontology/dpp-info/DPPInformation

DescriptionA pice of information contained in a DPP, which is about some product.

In Domain Of superseded by op

In Range Of contains information op

superseded by op

Restriction is about op some DPP information of

Super Class Of CertificateInformation^C

Composition information^C Disassembly information^C

Legal guarantee^c
Product characteristic^c
Product quality^c
Repair instruction^c

Disassembly information ^C

IRI http://w3id.org/dppo/ontology/dpp-info/DisassemblyInformation

Description

A piece of information about how to disassemble the product, e.g. linking to some

disassembly instructions.

Sub Class Of DPP information C

In Domain Of disassembly instructions document op

Legal guarantee ^c

IRI http://w3id.org/dppo/ontology/dpp-info/LegalGuarantee

DescriptionA piece of information that described the legal guarantee of the product, with its

time interval of validity.

Sub Class Of DPP information C

end time dp exactly 1 1c and start time dp exactly 1 1c

Product characteristic ^C

IRI http://w3id.org/dppo/ontology/dpp-info/ProductCharacteristic

DescriptionA piece of information that describes a product characteristic.

Sub Class Of DPP information C

<u>value</u>^{dp} some <u>Literal</u>^c and <u>characteristic</u>^{op} some <u>Thing</u>^c

In Domain Of characteristic op

Product quality^C

IRI http://w3id.org/dppo/ontology/dpp-info/ProductQuality

DescriptionA piece of information about the quality of of a product.

Sub Class Of DPP information C

<u>value</u> dp some <u>Literal</u> and <u>quality</u> op some <u>Thing</u> to

In Domain Of quality op

Repair instruction ^C

IRI http://w3id.org/dppo/ontology/dpp-info/RepairInstruction

DescriptionA piece of information about how to repair a product.

Sub Class Of DPP information C

In Domain Of repair instrucitons document op

Unit ^C

IRI http://w3id.org/dppo/ontology/dpp-info/Unit

Description A unit of measure.

Dpp ^C

IRI http://w3id.org/dppo/ontology/dpp-odp/DPP

In Domain Of contains information op

Product ^C

IRI http://w3id.org/dppo/ontology/dpp-odp/Product

In Domain Of has composition information op

Object Properties

certificate document op

IRI http://w3id.org/dppo/ontology/dpp-info/certificateDocument

Description

A relation pointing out a document representing a certificate related to the product

described by the DPP.

Sub Property Of external document op

Domain CertificateInformation^C

characteristic op

IRI http://w3id.org/dppo/ontology/dpp-info/characteristic

DescriptionThe characteristic that the piece of information is about.

Domain Product characteristic^C

contains information op

IRI http://w3id.org/dppo/ontology/dpp-info/containsInformation

DescriptionRelating a DPP to the pieces of information it contains.

Domain http://w3id.org/dppo/ontology/dpp-odp/DPP

Range DPP information ^C

directly superseded by op

IRI http://w3id.org/dppo/ontology/dpp-info/directlySupersededBy

Description

A relation connecting a piece of information to the piece of information directly

superseding it.

Sub Property Of superseded by op

directly supersedes op

IRI http://w3id.org/dppo/ontology/dpp-info/directlySupersedes

DescriptionA relation connecting a piece of information to another piece of information that

directly replaces the first one, i.e. when a DPP is updated.

disassembly instructions document op

IRI http://w3id.org/dppo/ontology/dpp-info/disassemblyInstructionsDocument

DescriptionA relation pointing out a document with disassembly instructions for the product.

Sub Property Of external document op

Domain Disassembly information^c

external document op

IRI http://w3id.org/dppo/ontology/dpp-info/externalDocument

Description

A relation for pointing to external documentation, that is not explicitly represented inside the DPP but instead as a related document, e.g. documents with various kinds of instructions, certificates, or further information about the product.

Super Property Of

- certificate document op
- disassembly instructions document op
- repair instrucitons document op

has composition information op

IRI http://w3id.org/dppo/ontology/dpp-info/hasCompositionInformation

DescriptionA piece of information about the composition of a product.

Domain http://w3id.org/dppo/ontology/dpp-odp/Product

is about op

IRI http://w3id.org/dppo/ontology/dpp-info/isAbout

Description

Relating a piece of information to the thing the information is about, i.e. describes.

Super Property Of http://w3id.org/dppo/ontology/dpp-odp/describes op

qualityop

IRI http://w3id.org/dppo/ontology/dpp-info/quality

DescriptionA relation pointing at the quality that the piece of information describes.

Domain Product quality^C

repair instrucitons document op

IRI http://w3id.org/dppo/ontology/dpp-info/repairInstructionsDocument

Description

A relation pointing out a document containing repair instructions for the product.

Sub Property Of external document op

Domain Repair instruction^c

superseded by op

IRI http://w3id.org/dppo/ontology/dpp-info/supersededBy

DescriptionA transitive relation that relates a piece of information to the pieces of information

that supersedes it.

Super Property Of directly superseded by op

Domain DPP information^C

Range DPP information ^C

unit op

IRI http://w3id.org/dppo/ontology/dpp-info/unit

DescriptionRelation between a concept with a value, associating it to a unit of measure.

Domain Product quality or Product characteristic or Composition information

describes op

IRI http://w3id.org/dppo/ontology/dpp-odp/describes

Sub Property Of is about op

Datatype Properties

end time ^{dp}	
IRI	http://w3id.org/dppo/ontology/dpp-info/endTime
Description	The end of a time interval.
start time dp	
IRI	http://w3id.org/dppo/ontology/dpp-info/startTime
Description	The start of a time interval.
value ^{dp}	
IRI	http://w3id.org/dppo/ontology/dpp-info/value
Description	The value of a characterisitc or a quality.

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

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/dppo/ontology/dpp-info/

dcterms

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

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
dp Datatype Properties
ap Annotation Properties