# **Digital Product Passport Information Ontology**

#### Metadata

IRI

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

Title

**Digital Product Passport Information Ontology** 

Creator

Maike Jansen

Contributor

Eva Blomqvist

Huanyu Li

Robin Keskisärkkä

**Date Created** 

2023-10-30

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 <sup>C</sup>

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

**Description**A piece of information about some certificate that concerns the product.

Certificate information

Sub Class Of DPP information<sup>C</sup>

In Domain Of certificate document op

#### Composition information <sup>c</sup>

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

**Description**A 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 <sup>C</sup>

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

**Description**A 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In Domain Of superseded by op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superseded by op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<sup>C</sup>

Composition information<sup>C</sup> Disassembly information<sup>C</sup>

Legal guarantee<sup>c</sup>
Product characteristic<sup>c</sup>
Product quality<sup>c</sup>
Repair instruction<sup>c</sup>

### Disassembly information <sup>C</sup>

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 <sup>c</sup>

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

**Description**A 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 <sup>C</sup>

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

**Description**A piece of information that describes a product characteristic.

Sub Class Of DPP information C

<u>value</u><sup>dp</sup> some <u>Literal</u><sup>c</sup> and <u>characteristic</u><sup>op</sup> some <u>Thing</u><sup>c</sup>

In Domain Of characteristic op

Product quality<sup>C</sup>

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

**Description**A 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 <sup>C</sup>

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

**Description**A piece of information about how to repair a product.

Sub Class Of DPP information C

In Domain Of repair instrucitons document op

Unit <sup>C</sup>

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

**Description** A unit of measure.

Dpp <sup>C</sup>

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

In Domain Of contains information op

Product <sup>C</sup>

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<sup>C</sup>

characteristic op

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

**Description**The characteristic that the piece of information is about.

**Domain** Product characteristic<sup>C</sup>

contains information op

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

**Description**Relating a DPP to the pieces of information it contains.

Domain <a href="http://w3id.org/dppo/ontology/dpp-odp/DPP">http://w3id.org/dppo/ontology/dpp-odp/DPP</a>

Range DPP information <sup>C</sup>

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

**Description**A 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

**Description**A relation pointing out a document with disassembly instructions for the product.

Sub Property Of external document op

Domain Disassembly information<sup>c</sup>

#### 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

**Description**A piece of information about the composition of a product.

Domain <a href="http://w3id.org/dppo/ontology/dpp-odp/Product">http://w3id.org/dppo/ontology/dpp-odp/Product</a>

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 <a href="http://w3id.org/dppo/ontology/dpp-odp/describes">http://w3id.org/dppo/ontology/dpp-odp/describes</a> op

qualityop

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

**Description**A relation pointing at the quality that the piece of information describes.

Domain Product quality<sup>C</sup>

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<sup>C</sup>

superseded by op

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

**Description**A 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<sup>C</sup>

Range DPP information <sup>C</sup>

unit op

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

Description

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

Domain Composition information or Product quality or Product characteristic

describes op

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

Sub Property Of is about op

# **Datatype Properties**

end time <sup>dp</sup>	
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 <sup>dp</sup>	
IRI	http://w3id.org/dppo/ontology/dpp-info/value
Description	The value of a characterisitc or a quality.

# **Annotation Properties**

contributor <sup>ap</sup>	
IRI	http://purl.org/dc/terms/contributor
created <sup>ap</sup>	
IRI	http://purl.org/dc/terms/created
creator <sup>ap</sup>	
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 <sup>ap</sup>		
IRI	http://purl.org/dc/terms/title	
preferred namespace prefix <sup>ap</sup>		
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix	
preferred namespace uri <sup>ap</sup>		
IRI	http://purl.org/vocab/vann/preferredNamespaceUri	

## Namespaces

:

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

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