

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>

Description

A 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
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^c

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In Domain Of	superseded by^{op}
In Range Of	contains information^{op} superseded by^{op}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^c
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
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} <i>exactly</i> 1 1^c <i>and</i> start time^{dp} <i>exactly</i> 1 1^c

Product characteristic^c

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 value^{dp} some Literal^c <i>and</i> characteristic^{op} some Thing^c
In Domain Of	characteristic^{op}

Product quality^c

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 quality^{op} some Thing^c <i>and</i> value^{dp} some Literal^c
In Domain Of	quality^{op}

Repair instruction^c

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 instrucion 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>

Description The characteristic that the piece of information is about.

Domain [Product characteristic](#)^C

contains information^{op}

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

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

Domain <http://w3id.org/dppo/ontology/dpp-odp/DPP>^c

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>

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](#)^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 instructions 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

<http://w3id.org/dppo/ontology/dpp-odp/Product>^c

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}

quality^{op}

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](#)^c

repair instructions 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
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 ^c
Range	DPP information ^c

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	Product characteristic ^c or Product quality ^c or Composition information ^c

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

: <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