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In Domain Of	superseded by ^{op}
In Range Of	contains information ^{op} superseded by ^{op}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} *exactly* 1 1 ^C *and* start time ^{dp} *exactly* 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 *and* 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
value ^{dp} some Literal ^C *and* quality ^{op} some Thing ^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 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
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 furhter 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	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 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
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 quality ^c *or* Composition information ^c *or* Product characteristic ^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