

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| In Domain Of | superseded by^{op} |
| In Range Of | contains information^{op} superseded by^{op} |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 value^{dp} some Literal^c <i>and</i> 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 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 <i>or</i> Composition information ^c <i>or</i> Product quality ^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 |