LDP Implementation of FDO

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This document briefly summarizes how FDOF can be implemented with the help of the Linked Data Platform methods as described by various Web documents.

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| Req | available | missing |
| G1 | The corpus of LDP-related recommendations provide a clear investment path for a reasonable amount of time. | Increase the adoption base of the technology. |
| G2 | LDP is an W3C recommendation and W3C is recognised as a trustworthy standardization organization. |  |
| G3 | LDP and associated W3C standards facilitate the compliance with the FAIR Principles, but users need to behave in certain ways to do so. | More strict guidelines on how to use LDP in ways to better follow the FAIR Principles |
| G4 | LDP and Linked Data provides the technological ground for users to provide explicit semantics with qualified references. |  |
| G5 | Layers of abstractions can be introduced using LDP/RDF. | More strict guidelines on how to use LDP in ways to better support the abstraction principle. |
| G6 | Once the relations/bindings are defined, they are there until the resource is removed or the users make changes. |  |
| G7 | LDP supports the HTTP methods/operations |  |
| G8 | LDP is a technology based on RDF and, therefore, is technology dependent. |  |
| FDO1 | LDP adopts URI as a globally unique, persistent and resolvable identifier. | A consistent resolution behaviour that doesn’t depend on user’s best practices is still missing. |
| FDO2 | What is resolved from the URI is up to the creator of the resource. It is possible to define the resolution to this structured record and LDP/RDF provides infrastructure for semantically describe this structured record. | Instructions on how to use LDP to return the URI’s structure record including the semantic references to the record’s elements. |
| FDO3 | Same as above | Same as above |
| FDO4 | LDP/RDF can be used to provide the semantic description of the operations supported by each DO type. | The type ontology, including the description of the operations need to be defined. |
| FDO5 | LDP supports HTTP methods that provide CRUD functionality. | Extended operations need to be defined. |
| FDO6 | LDP/RDF the definition of the semantic descriptions required by the type ontology. | no |
| FDO7 | LDP/RDF supports semantic descriptions of metadata elements through qualified references to existing volcabularies/ontologies. | no |
| FDO8 | LDP defines the concept of container, including three types of containers and the relations between container and its member elements. | no |
| FDO9 | Tombstone notes can be semantically described using LDP/RDF. | Instructions on how to construct the tombstone notes using LDP/RDF and update the identifier’s structure record to point to this note. |

**Available readings**

* Linked Data Platform 1.0 - <https://www.w3.org/TR/ldp/>
* Linked Data Platform 1.0 Primer - <https://www.w3.org/TR/ldp-primer/>
* Linked Data Platform Best Practices and Guidelines - <https://www.w3.org/2012/ldp/hg/ldp-bp/ldp-bp.html>
* RDF 1.1 Primer - <https://www.w3.org/TR/rdf11-primer/>