

Persistent Identifiers: What's new?

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Virtual Centre Meeting 2020

31 March 2020



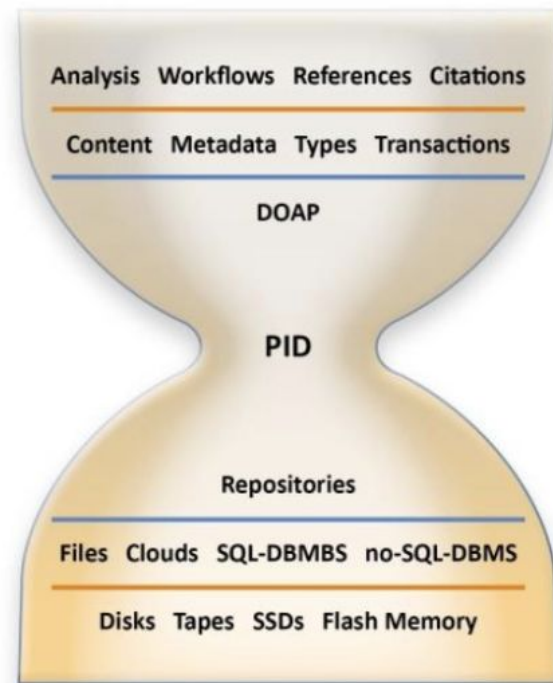
Fair Digital Objects - A Brief History

- Based on the work of Kahn & Willensky [1] and various RDA working groups (such as the Data Foundation & Terminology WG) on Digital Objects (DOs)
- Various initiatives continued the work in parallel
 - C2CAMP
 - GEDE
- Recently merged again after discussions with GOFAIR, resulting in Fair Digital Objects
 - Paris meeting resulted in the FDO Declaration being published at the beginning of 2020:
<https://github.com/GEDE-RDA-Europe/GEDE/tree/master/FAIR%20Digital%20Objects/FDO-declaration>

[1] R. Kahn, R. Wilensky: A Framework for Distributed Digital Object Services, 1995;
<http://www.cnri.reston.va.us/home/cstr/arch/k-w.html>

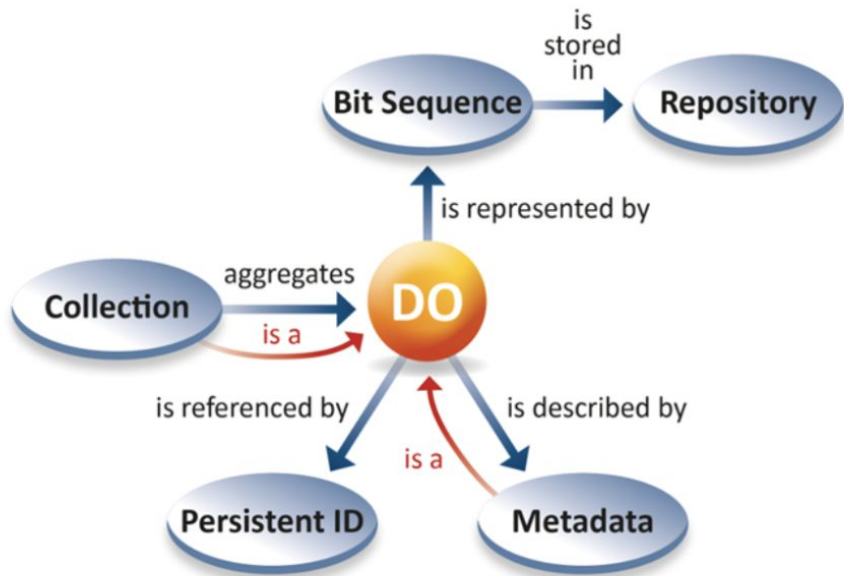
FDO - Problems being Addressed

- Does **not** provide a direct solution to the challenge of interoperability.
- But instead facilitates interoperability by:
 - Providing stable references
 - Providing stable types
 - Providing a rich data domain

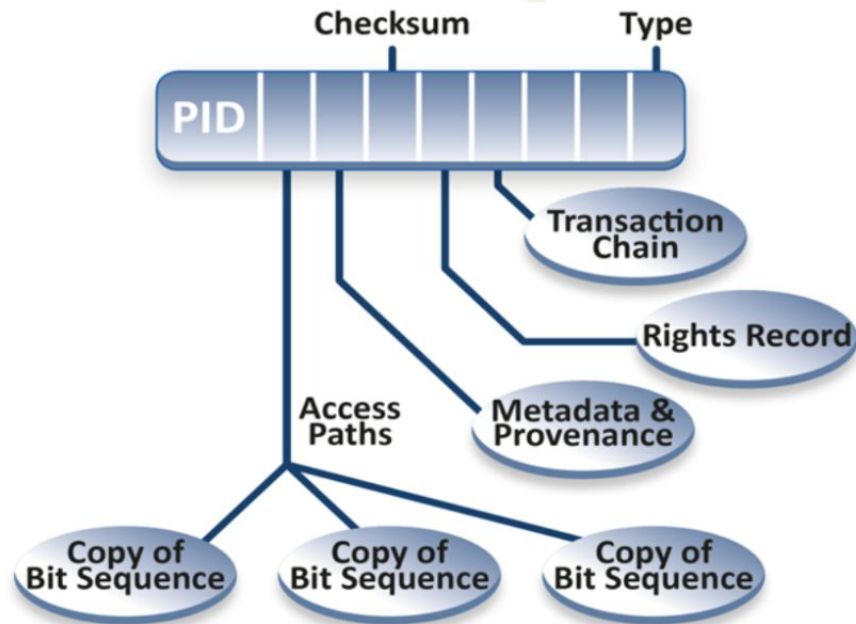


Fair Digital Objects

FDO Concept

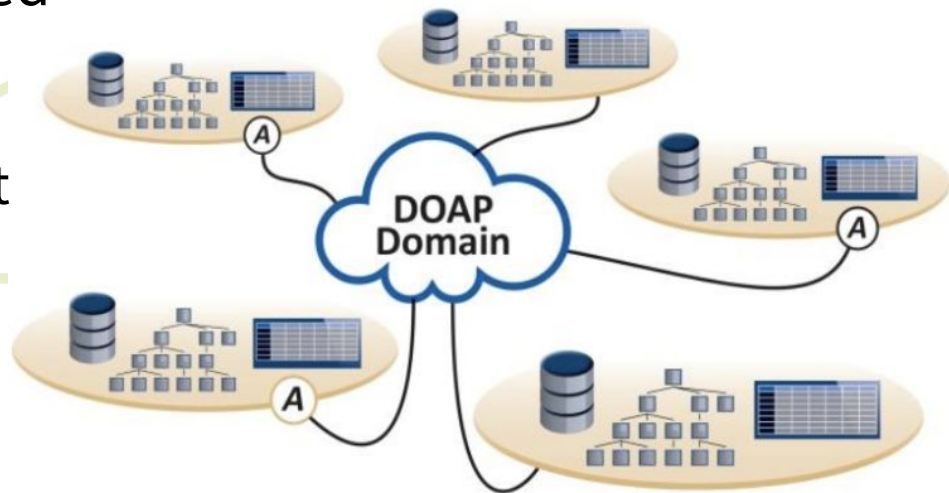


Components of a FDO



Digital Object Interface Protocol (DOIP)

- The DOIP v2.0 specification implements the DO access protocol (DOAP)
- Will build a global virtualized domain of Digital Objects
 - Identified by PIDs
 - Characterized by different types of metadata



FDO - Scientific Use Cases

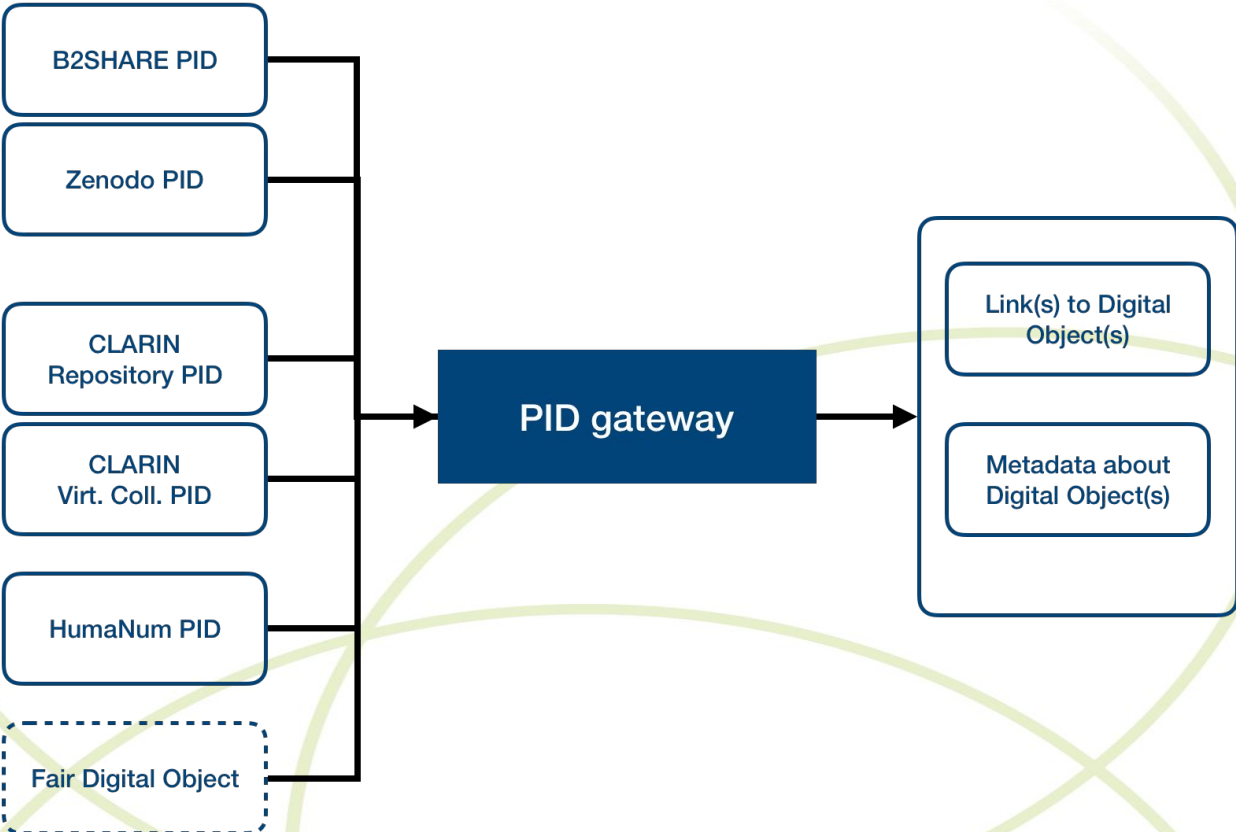
- Requested scientific use cases
 - 31 responses in total
 - 20 European research initiatives, 2 US institutions and 1 Chinese institution
- CLARIN use-case
 - Use the DOIP and FDO specifications as a richer basis to find useful connections between datasets and tools

Reference:
<https://github.com/GEDE-RDA-Europe/GEDE/blob/master/FAIR%20Digital%20Objects/do-fdo-papers/DO-usecase-analysis-v4.pdf>

CLARIN & FDO: some ideas (1)

- Support for FDO as input in the LR Switchboard
- Support for FDO in the Virtual Collection Registry
 - collection as FDO
 - pointers to FDOs as part of a collection
- Thinking about developing a compatibility layer with read-access support for:
 - PIDs:
 - plain handle
 - CLARIN handle (> CMDI)
 - FDO handle
 - DOI
 - typed URLs (e.g. Invenio)

CLARIN & FDO: some ideas (2)



DOIs - current state within CLARIN

- Accepted as Persistent Identifier for CLARIN B-Centres as of the last update of the Centre Requirements
- Some Centres already have access to DataCite DOI providers
 - often via the library
- Next to the current EPIC membership, CLARIN ERIC is considering to become a DataCite [consortium member](#) to offer DOIs to B-Centres (& candidates):
 - one prefix per repository
 - unlimited amount of DOIs/repository
 - estimated cost for CLARIN between
 - 24k EUR/y (22 repos)
 - 33k EUR/y (44 repos)
- Important decision factors:
 - DataCite membership pricing (currently under discussion)
 - Degree of interest among the centres

Thank you for your attention!

- More details at
 - Papers, Documents, etc. on DO and FDO can be found here:
 - <https://github.com/GEDE-RDA-Europe/GEDE/tree/master/FAIR%20Digital%20Objects>
 - <https://github.com/GEDE-RDA-Europe/GEDE/tree/master/Digital-Objects>
- Or feel free to contact us via willem@clarin.eu and dieter@clarin.eu