Research Data Repository
Interoperability WG

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Berlin, 03/22/18
Summary of the Problem

- Exchange of digital content between repository platforms is challenging
  - Different data models, metadata, semantics, interfaces
  - Current state of the art (e.g. Dublin Core, OAI-PMH, SWORD) well adopted but limited
  - Upcoming approaches (e.g. Linked Data Platform, Resource Sync, OAI-ORE) supported by a comparable small subset of platforms
Summary of the Problem

- Some varied use cases: migration, replication, cross-domain sharing
  - Migration between same platform, but different version
  - Migration between different platforms
  - Sharing with domain and cross-domain scientists
Group Deliverables

1. Research Data Repository Interoperability Primer
   1. DOI: 10.15497/RDA00020

2. Final Recommendations
Consensus on BagIt-based approach

Recommend metadata location and naming scheme

Recommend to include basic metadata in Datacite 4.0 schema

Recommend to use machine readable profile information according to BagIt Profiles Specification
Impact of the Recommendation

- Comparably easy to adopt packaging and exchange format
- Adoption can be done by community
- Alignment of existing packaging solutions rather easy
- Support for both state-of-the-art and legacy platforms
- Provides users with a common tool to e.g. transport, exchange or backup their content
- Basis for further agreements of package content to improve interpretability of package content
First prototypes implemented for Fedora Commons, ICAT, Dariah Repository and KIT Data Manager

Generic profile containing all recommended elements available

Tools and demonstrator available:

https://github.com/RDAResearchDataRepositoryInteropWG