Generic Technology
Frictionless Data Exchange

Brief Overview

Frictionless Data Exchange pilots a demonstrator service for fast and highly scalable exchange of data across repositories storing research datasets, manuscripts and scientific software.

Objectives

This pilot wants to showcase how scholarly communication resources can be effectively, regularly and reliably exchanged across systems, and to apply ResourceSync protocol on real-world use cases. Moreover, the objective is also to show data synchronization across a cross-disciplinary network of repositories and between repositories and global added-value services.
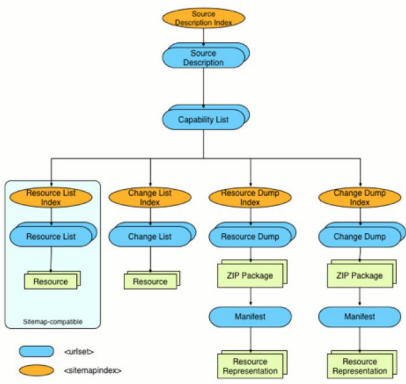
Main achievements

» Benchmarkingg OAI-PMH against ResourceSync in a number of scenarios and according to a number of criteria, including:

» Enhancing ResourceSync by means of developing of a ResourceSync On Demand Dump concept and its implementation and aditpion in a real use cases.

» Supporting OpenAIRE in adopting ResourceSync-based ingestion of scientific papers from publishers.

Recommendations for the implementation

» Benchmarkingg OAI-PMH against ResourceSync in a number of scenarios and according to a number of criteria, including:

» Enhancing ResourceSync by means of developing of a ResourceSync On Demand Dump concept and its implementation and aditpion in a real use cases.

» Supporting OpenAIRE in adopting ResourceSync-based ingestion of scientific papers from publishers.

Partners of the SD

The Open University, UK - Los Alamos National Laboratory, USA

EOSC is in the process of establishing a federated infrastructure of repositories, whether storing research data, software or scientific publciations, for researchers. Such infrastructure can only fullfil its potential if data can be transferred across the nodes in the network in an interoperable way. This demonstrator provides the results, arguments and tools to inform how this can be achieved.

Contacts

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