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T5 - The NISO/OAI ResourceSync Synchronization Framework (Room 1130)

Wednesday, 19 June 2013 09:00 (2h 30m)

This tutorial will provide an overview and a practical introduction to ResourceSync, a framework to synchronize web resources that consists of multiple modular capabilities that a server can selectively implement to enable third party systems to remain synchronized with the its evolving resources. All capabilities leverage document formats introduced by the widely adopted Sitemap protocol.

The editors of the ResourceSync specification are affiliated with the Los Alamos National Laboratory, Cornell University, Old Dominion University, and the University of Michigan. They have been involved in other interoperability specification efforts, including the OAI Protocol for Metadata Harvesting, OAI Object Reuse and Exchange, Memento, and Open Annotation. An international Technical Committee has supported the editors in compiling the draft specification.

The tutorial will:

- Motivate the ResourceSync approach by outlining several synchronization use cases including scholarly article repositories, linked data knowledge bases, and resource aggregators.
- Detail the nature of the various ResourceSync capabilities (Resource List, Resource Dump, Change List, Change Dump) that a server can implement.
- Show how support for these capabilities can be expressed (Capability List) and discovered.
- Describe the extensibility mechanism built into the framework that allows addressing specific needs, such as synchronizing from mirror sites, synchronizing resources by exposing patch information, and synchronizing both metadata and content described by that metadata.
- Provide details about the serialization format used to express ResourceSync capabilities, which is based on document formats introduced by the Sitemap protocol.
- Describe experiences developing general ResourceSync software libraries and particular support for an institutional repository platform.

Intended Audience:

The intended audience are people involved in both technical and management aspects of digital repositories or in the creation of value-add services across such repositories. The tutorial will assume a basic level of familiarity with fundamental web concepts (URI, resource, representation) and XML, but will be presented in a way that is accessible to people with a non-technical job description that have basic technical knowledge.

Presenters: Mr VAN DE SOMPEL, Herbert (Los Alamos National Laboratory); Mr JONES, Richard (Cottage Labs); Dr SANDERSON, Robert (Los Alamos National Laboratory)

Session Classification: Tutorials