

XML Realisation

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XML port types

- Management
 - Create/remove collections
 - Add/remove XML schemas
 - Bulk load
- Access
 - Query (XPath, XQuery)
 - Update (XUpdate)

XML port types

- Description/resource properties
 - Collection metadata
 - Document metadata
- Factory/factory pattern
 - Creation of result sets
 - Provide access to existing data resources

Issues/Plans

- Improve metadata (properties)
 - XML Schemas
- Identify XML specific terms
- Remove references to WS-Agreement
- Unique identifiers: How to address a document or parts of a document
- Location: Create new services that are associated with existing resources (e.g. XPathAccess to a subcollection)

XML DB Metadata

- List collections
- List documents
- List XML schemas
- Properties of collections, documents...
- Query/update languages
- Indexes
- Transactions
- Database roles
- ...

Accessing collections

- Options:
 - Representing the root collection as a service and supply collection id in the request
 - Representing a collection as a service in order to do something (query/update)
- First option provides access to all sub-collections – so can query/update a set of documents in different collections
- OGSA-DAI (kind of) does the first – implementation issue?
- Provide a tag for specifying collection(s)

XQueryAccess

- Parameter or property to specify whether results are to be sent back synchronously or are represented by a new web service
- Property limits the size of synchronous result sets
- Result set implements another access interface e.g. XQueryAccess