

GGF10 – DAIS WG  
XML Realisation  
Specification Update

Amy Krause

EPCC

[a.krause@epcc.ed.ac.uk](mailto:a.krause@epcc.ed.ac.uk)

# Agenda

- The XML realisation at GGF10
  - What hasn't changed
  - What has changed
- XML Standards
- Active topics relevant to the XML realisation spec
  - Behaviour and controlling terms
- Issues for XML realisation
- Actions for XML realisation

# What hasn't changed?

- The XML realisation as it currently stands is mostly the same as it was at GGF9
  - Still based on OGSI 1.0
  - Follows the model of the base spec (which is based on the Grid Data Services Document from GGF9)
    - Same portTypes
    - Same model for operation

# What has changed?

- Mostly removed reference to WS-Agreement
- Moved some operations to other port types
- Added input/output/fault details to operations
- The document will undergo more significant changes for GGF11
  - following the changes to the base spec

# Overview

JDBC Webrowset (JSR 114)

XQJ (JSR 225)

SQL 2003  
(SQL/XML, XPath, XQuery)

XPath  
XQuery

Relational  
Database  
(Tables)

XML  
Database  
(Collections)

DMTF CIM 2.9

# W3C (XML)

- XPath 2.0:
  - <http://www.w3.org/TR/xpath20/>
  - Status of a W3C recommendation document
- **Query Language:** XQuery 1.0:
  - Last call draft produced in February 2003. Comment period ends 15 April 2004.
  - Incorporates XPath 2.0
  - XML update?
- **XML Representation of Query Language:** XQueryX 1.0 (XQuery in an XML format)
  - <http://www.w3.org/TR/xqueryx/>
  - Not yet in last call
- **XML Representation of Query Response:** XSLT 2.0 and XQuery 1.0 Serialization
  - <http://www.w3.org/TR/xslt-xquery-serialization/>
  - Last call draft produced in November 2003. Comment period ended 15 Feb 2004.

# Active Topics Relevant To XML Realisation

- **Terms**
- Other mappings are handled through the base:
  - OGSA Data Services (the mapping session)
    - Description
    - Access
    - Management
    - Factory
  - Data management (later in this session)
  - Data movement (Information Dissemination BOF)
  - Meta Data (there is a BOF at GGF10 – not specific to DAIS)
  - Composite requests
  - Transactions (there is a BOF at GGF10)
  - Security

# Terms

- Schema compliance
  - No schemas/all schemas/one schema
- Characteristics for
  - Database
    - Database size
  - Collection
    - Max number of collections
    - Collection Depth
  - Document
    - Max document length



# Terms

- Versioning support
- Updateable/Read-only
- Links resolved on materialisation/on retrieval/not resolved

# Issues for XML Realisation

- Do we have the operations correct?
- Do we have the meta data/description correct?
- How do we describe expected behaviour?
  - What terms?
  - Do we specify precisely in the spec and if so how?

# Actions for XML Realisation

- Achieve consistency with new version of Grid Data Service Spec and other realisation documents
- Identify and define meta-data/properties
- Identify and define Terms