

Tutorial S11 Outline (see below)

Detailed outline of Tutorial:

Introduction: 20 minutes

The presenters will give a brief overview of grid services for data management and how these services fit into an overall architecture for grid services.

Gridftp: 25 minutes

Description of the GridFTP data transport protocol, followed by detailed instructions on how to deploy a gridftp server, detailed examples of GridFTP command-line usage and interactive demonstrations of data transfers.

RLS: 25 minutes

Description of the Replica Location Service, including the Local Replica Catalog and the Replica Location Index components. This overview will be followed by a discussion of how to deploy RLS servers and detailed examples and demonstrations of the use of RLS components.

RFT: 25 minutes

Description of the Reliable File Transfer Service, followed by demonstrations of the use of RFT in an OGSA environment.

MCS: 25 minutes

Description of the Metadata Catalog Service, including a discussion of the OGSA Database Access and Integration Service, upon which the MCS implementation will be based. Discussion of the configuration of MCS servers. Detailed examples and demonstrations of the query and update of metadata information in an MCS server.

Chimera: 25 minutes

Description of the Chimera system for virtual data management, including the Virtual Data Language and the Chimera catalog. Detailed examples and demonstrations of how Chimera is used to produce abstract workflows to generate desired data products.

Pegasus: 25 minutes

Description of the Pegasus system for planning workflows on the Grid. Detailed examples and demonstrations of how Pegasus is used to map from an abstract workflow description to a concrete plan for execution on a grid.

Conclusions: 10 minutes

We will conclude with a brief discussion of future plans for grid data services and some pointers and references for tutorial attendees to pursue more information.