WS-Resource Framework: Globus Alliance Perspectives

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Why is WSRF important?
How does WSRF relate to the Open Grid Services Infrastructure (OGSI)?
How does WSRF relate to the Open Grid Services Architecture (OGSA)?
What will the Globus Alliance do with WSRF?
What does WSRF mean for Globus Toolkit users?

Context:
Open Grid Services Architecture

- Define a service-oriented architecture ...
  - the key to effective virtualization
- ... to address vital "Grid" requirements
  - AKA utility, on-demand, system management, collaborative computing
- ... building on Web services standards
  - extending those standards where needed

Open Grid Services Architecture
(www.ggf.org/ogsa-wg)

Program Execution
Data Services
Core Services
Open Grid Services Infrastructure
Web Services Messaging, Security, Etc.

Three Major Web Services Concerns about OGSI

- Too much stuff in one specification
- Does not work well with existing Web services tooling
- Too "object oriented"
Grid and Web Services: Convergence: Yes!

The definition of WSRF means that Grid and Web communities can move forward on a common base.

Concerns Addressed

- Too much stuff in one specification
  - WSRF partitions OGSI v1.0 functionality into a family of composable specifications
- Does not work well with existing Web services tooling
  - WSRF tones down the usage of XML Schema
- Too object oriented
  - WSRF makes an explicit distinction between the "service" and the stateful "resources" acted upon by that service

From OGSI to WSRF: Refactoring and Evolution**

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**Draft document at www.globus.org/wsrf this week

Open Grid Services Architecture

Program Execution

Data Services

Core Services

WS-Resource Framework

Web Services Messaging, Security, Etc.

Implications for the Globus Community

- Production deployments based on GT pre-OGSI components
  - These components will be included in 3.2 and 4.x, and we will continue to support you
- Projects based on GT OGSI components
  - Changes are regretted but promise ubiquity
  - We will work to ease transition to WSRF
  - Similarities between OGSI and WSRF imply that most changes will be straightforward
Summary

- Why is WSRF important?
  - WSRF completes Grid/Web convergence
- How does WSRF relate to OGSI?
  - WSRF restates OGSI concepts in WS terms
- How does WSRF relate to OGSA?
  - WSRF mechanisms will enable OGSA
- What will Globus Alliance do with WSRF?
  - WSRF-based GT4.0 planned for Q3 2004
- What does WSRF mean for GT3.0 users?
  - For the most only minor changes

For More Information

- Specifications, architecture documents, FAQ, and other information
  - http://www.globus.org/wsrf
- Discussion forum
  - http://www.ggf.org/ogsi-wg
- GlobusWORLD Sessions
  - Tuesday, 10:30a: Panel
  - Wednesday, 4:30p: WSRF Technical Details
  - Thursday, 10:30a: Meet the WSRF Authors