Storage & Information Status Report

Jeff Templon
PDP Groep, NIKHEF

P. Girard, S. Burke, P. Kunszt, R. Trompert, L. Field

GDB Meeting
8 feb 2006

Laurence's 3 issues + JT's 1

- If you put your file in this SA, what will be the 'response time' when you try to read it later?

- If you put your file in this SA, what is the guaranteed lifetime of this file?

- Online Storage Areas (disk 'buffer' fronting tape)
  - How to model?
  - How to find out what is 'on disk' and what isn't?

- Update 'conventions' in IS (invented in EDG) to 1.2, and update software to use the new info (vo:/path/to/area)

GLUE Schema Evolution

◆ Previous versions designed *in vacuo* -- no use cases

◆ Users:

- Sites

- Grid users

- Middleware people

◆ If something cannot be done (*e.g.* a certain query): define a concrete use case

- Drive schema (or use case) evolution

- Use case provides validation check for GSTAT (does each SE in Grid provide sensible answer for this use case's query??)

Couple Obvious Things Missing

- ◆ Quality of Service information for SEs / SAs

  - ▪ File "safety": are they backed up? Mirrored? RAID? Right now last is in architecture as "multidisk" but probably not appropriate as arch, more as QoS

  - ▪ Number of available transfer (gridftp, dcap, etc) connections

  - ▪ What else??

- ◆ GSTAT checks on published information: 'regression tests' for observed errors

Related Problem (but not in IS)

◆ When I ask an SRM for a file, how do I find out how long it will take before I can open?? Relevant for HSM systems with OSAs.

Status of Task

◆ Document in progress, 'modeling storage resources with GLUE'

- Addresses the exp't use cases discussed last time

- Guide to publishing the GLUE information

◆ Add'l document on "GLUE discrepancies" (input for GSTAT monitor)

◆ Bugs being submitted on DM tools where they use info incorrectly

◆ Hope to get significant improvements for gLite 3.0