OGF Data Management
The Role of Standards

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STFC RAL

OGF25 2-6 March 2009
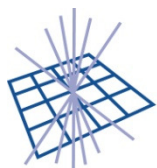
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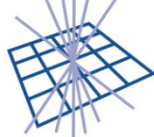
Interoperation

Against

- Lock in to my service
- Performance, customisation
- Don't care about others
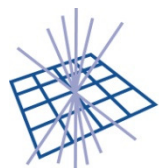
For

- Reuse
- Moving service seamlessly
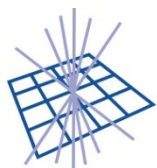- Longevity
- S'ware maintenance

Standards

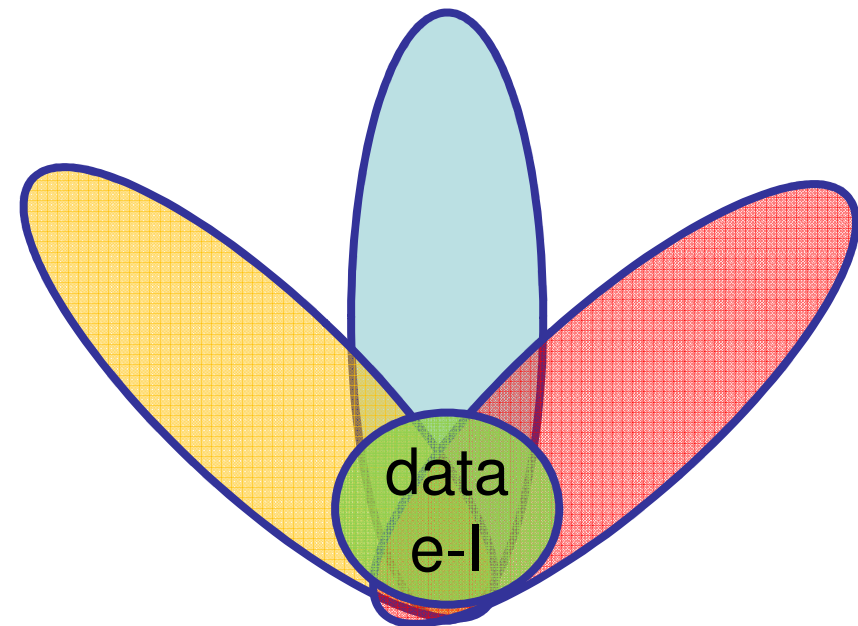- Steven talked about it this morning
- *Essential* for our user communities
  - No single implementation fits all
  - Implementations MUST interoperate:
    - With each other
    - With themselves (across upgrades)
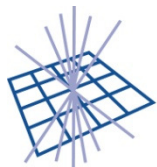
Service Providers

- e-Infrastructures
- Focus on delivery of core service
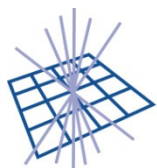 - Core service fits into grids in many ways

Background

- SRM is the *Storage Resource Manager*
- A *Control protocol* for Mass Storage Systems
  - Not to be confused with "Storage Resource Management"
- Standard protocol: OGF GSM-WG
  - Chairs: A Shoshani (LBNL), J Jensen (STFC RAL)

GSM-WG status

- Six interoperating implementations
  - Seventh on the way: ASGC iface to SRB
- Documented protocol
  - Two independent test suites
  - Automated tests
- You can have more colours than black!
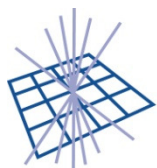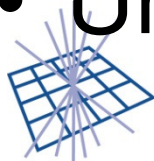
Who Is Using It?

- SRM was originally designed by HEP
- Storage interface for WLCG
  – Includes EGEE and OSG
- EGEE brought first non-HEP users
  – Lots of EGEE VOs, e.g., Biomedical
- Other non-HEP users, e.g.
  – ICTP: Financial, GridPP: industry
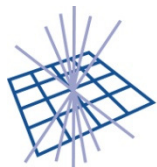
SE Deployment

- dCache (DESY+FNAL)   53
- DPM (CERN)   174
- CASTOR (CERN+RAL)   18
- BestMan (LBNL)   3
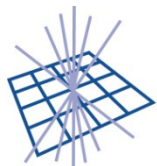- Jasmine (JLAB)   1
- StoRM (ICTP-EGRID/INFN) 25
- Undefined or local disk   23

+65 not publishing GlueSEImplementationName

Why OGF

- WLCG is largest user
- Has heavily influenced interpretation
  - Also of GLUE
- OGF ensures openness
  - Stakeholder input
  - Client development
  - Other user communities

Why OGF

- Dissemination
    - Sharing experiences with other groups and communities
- Interoperation
    - Exteroperation, Xenoperation