OGSA Transition

ATF Migration Strategy

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OGSI + OGSA

OGSI

- Definition of Grid Services
  - Web Services + Grid Behaviours
  - Life-time management
  - Service Data as foundation for Grid Information Services

- Hosting Environment
  - Creation, Resource allocation, monitoring
  - Control and Data transport

- Draft Standard under consideration
- Wide engagement
- GT3 as reference implementation July 2003

OGSA

- Minimum set of Grid Services
- Reference Implementations will appear incrementally

- Simulation of GT2 interfaces and functions
Users Moving from GT2 to GT3

• **No hurry**
  - GT2 supported to end 2003
  - And probably much longer
  - C library compatibility
  - Early adopters of GT3 will have to work harder

• **Attractions**
  - Decomposed functions make project contributions easier
  - Standards and architecture improved
  - Developed with a better engineering process
  - Access to web services and tools
  - Wider range of supported platforms
Users moving from Web Services

- **A Grid Services is a web service**
  - Have to add the Grid Service PortTypes
  - Should be easy iff
    - Appropriate libraries for this are made available
    - Those using Java should be easily provide
    - C, C++ and C# — How much later?

- **Issues**
  - Will the same registries be used?
  - What minimum Service Data required?
  - What hosting platforms?
  - Will tools still work?
New Projects

- Consider GT3
  - But with caution — probably not easy to use or with sufficient function until Q1 2004
    - Documentation
    - Experience
    - Supported Service
  - OK to design and do some prototypes now?
    - OGSI stable except in the area of notification
    - OGSA intensive efforts underway
Supporting GT3

- Grid Support Centre, ETF & others
  - They will face more complex challenges
  - Variety of Services, Hosting Environments & Platforms
    - Exploration, Evaluation and Assessment needed
  - Combinatorial effects of composing services
    - What will be a sensible core combination?
    - On what hosting environments and platforms?
  - Examples of Composed services needed
    - WSDL examples
    - Code examples
    - Deployment and operation demonstrations
  - Phased transitions
    - GT2 service + GT3 preparatory investigations
    - GT2 service + GT3 prototyping & experiment support
    - GT2 service + GT3 service
    - GT3 service
  - Some bounds on when these may occur would help
  - A well-managed and engineered transition requires extra resources
Supporting Transition

- Progressive provision of Training
  - Primers and guides on Web Sites
  - Hands-on developer courses
  - Orientation, Planning & Management
    - For Project Leaders, Designers and Architects

- Plan to deliver this from e-Science Institute
  - Schedule to match GSC + ETF schedule
  - Schedule to respond to project needs
Summary & Conclusions

- Transition to OGSI/OGSA will prove worthwhile
- There are still issues to be resolved
  - OGSA definition / delivery
  - Hosting environments & Platforms
  - Combinations of Services supported
  - Material and grids to support adopters
  - Resources to support transitions
- A schedule of transitions should be (approximately & provisionally) published
- Expected time line
  - Now GT2 service + GT3 M/W development & Evaluation
  - Late Q4 2003 early project use of GT3
  - Q1 & Q2 2004 significant project uptake
  - Late Q4 2004 most projects have transitioned
Comments & Questions Please

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