



Report on OGSA discussions

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Planning before OGSA discussions started

- Investigate how GMA and R-GMA fit in OGSA documents
 - OGSA draft document
 - OGSA Use Cases document
- Do what is needed to join the OGSA debate: produce two documents
 - Information and Monitoring service description
 - Information and Monitoring Use Case
- Circulate and iterate within WP3, GMA authors, extended list, then OGSA-WG in early 2004



Submission to OGSA

- Early Dec 2003, both documents sent to the OGSA-WG without our consent
- We were invited during OGSA F2F meeting to join the teleconferences
- It was already apparent that there a lot of overlap with the “Distributed Logging” sub-group – discussion scheduled for next meeting
- Since had 2 teleconferences (11 Dec, 8 Jan)



OGSA-WG

- To achieve an integrated approach to future OGSA services
 - requirements,
 - functionality,
 - priorities,
 - interrelationships.
- Detailed specifications for specific services will occur in other WGs
- Many implementations may exist



OGSA Use Cases document

- 17 Uses Cases
- Many mention requirement for monitoring
 - For a “Commercial Data Center (CDC)”, the administrator needs to be able to easily monitor the thousands of hardware and software resources on the CDC to reduce resource management costs.
 - In the “IT infrastructure and Management” there is a need for strong monitoring of the environment for defects and the ability to identify misuse including virus/worm attacks.



OGSA draft document

- 26 types of services
- Many not defined clearly
- Many relevant to R-GMA
 - Service Groups and Discovery Services
 - Discovery Services
 - Messaging and Queuing
 - Event
 - Distributed Logging
 - CMM



I&M Use cases doc

- Based on DataGrid Use Cases
 - Network monitoring
 - Manager
 - User
 - Scheduling
 - Interactive jobs
 - Long running jobs
 - Logging & Bookkeeping
 - Persistency



I&M service description doc

- Interface for
 - Client/Producer Service
 - Client/Consumer Service
- Foundation for building higher level services
 - Intermediaries (aggregate, filter, archive, forward or broadcast data from other producers)
- Required peer services
 - Registry
 - Event schema
 - Mediator and Query planning
 - Notification



Distributed Logging

- **LogManager service**
 - manages an instance of the OGSA Logger.
- **Log service**
 - Specifies hardware-assisted merge facility
- **LogStream service**
 - policies for retention, offload, persistence, availability, and staging are defined
- **LogStreamConnection service**
 - read or write access to the records in a LogStream
- **LogBrowseSession service**
 - read log records from a LogStream.



11 Dec discussion 10-12 pm

- Chair: Bill Horn
- Produced patterns document 30 mins prior to meeting
- Discussion explored variants to determine whether the 5 types of patterns are really basic
 - Types 1,2 and 3 are just type 4 on both sides
 - Logger is type 2
 - GMA is type 3 + 4?
 - Do all types within one WG
 - Keep patterns 1 2 and 3 for the OGSA document



Preparation for 2nd teleconf on 8 Jan - actions

- BH: combine types 4 and 5 into the other types
- Classify I&M Use Cases into the types presented – (produced “OGSA Logger and GMA” instead)
- Push out interfaces to OGSA WG
- Issue: Any relation/overlap between GMA & CMM



OGSA Logger and GMA

- I&M have a fundamental position in OGSA
- Other services can be implemented as thin layers on top of I&M
- Most requirements of a Logger system appear to be met by R-GMA
 - Consumer = LogBrowseSession (+LogStreamConnection+ LogStream)
 - Producer = LogStreamConnection (+ LogStream)
- Question: What changes would be required to the Logger description to make it conform to (R-)GMA



8 Jan discussion

- Chair: Bill Horn
- Lengthy discussion of Logger requirements
- Less lengthy of the new 4 patterns
- Pushed the idea that I&M is more fundamental than Logging
 - Logging can be built on top of I&M not the other way round
 - OGSA document has already a place holder for Information systems
 - “Logging as base communication mechanism” is false



What next

- 12 Jan minutes
 - Hiro: as discussed in a previous teleconference, will create a new category of information services, which includes logging, etc. So, keep current services in this group but change the name to Information Services, promoting it to same level as Core. Change the title and add text (patterns, etc.). Bill and Hiro will do this re-write.
- Next F2F 9/10 February



Further info

- Comparison of Intermediaries by Bill Horn
https://forge.gridforum.org/docman2/ViewCategory.php?group_id=42&category_id=469
- Logging service by Bill Horn
https://forge.gridforum.org/projects/ogsa-wg/document/Logging_service_overview_0.6_0.3/en/1
https://forge.gridforum.org/projects/ogsa-wg/document/OGSA_Logger_System_V9/en/1
- GMA usecase
https://forge.gridforum.org/projects/ogsa-wg/document/GMA_usecase/en/1
- GMA service description
https://forge.gridforum.org/projects/ogsa-wg/document/GMA_service_description/en/1