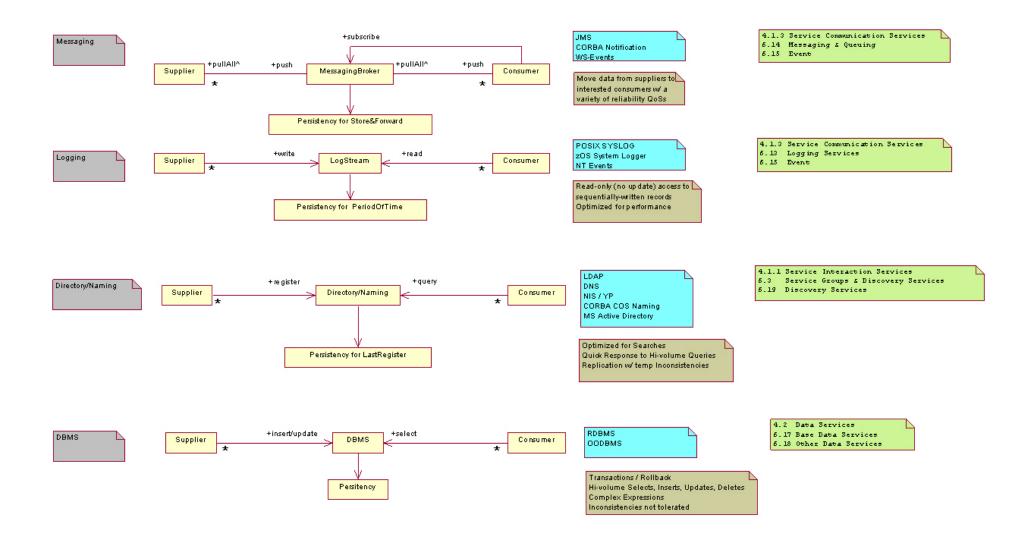
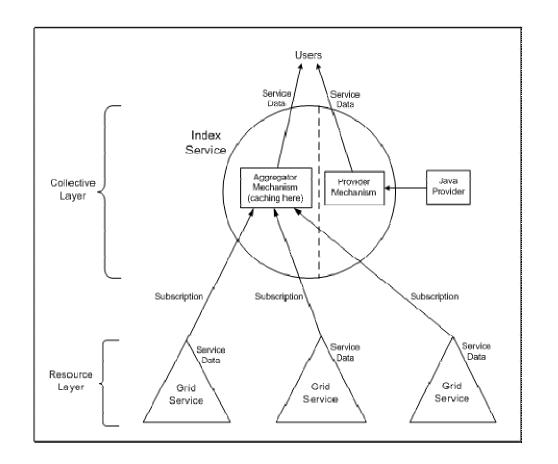
Messaging, Logging, & Directory Patterns for January 8, 2003 OGSA-WG Teleconference Discussions

OGSA-WG Logging Focus Area Bill Horn January 8, 2003

Messaging, Logging, & Directory Patterns

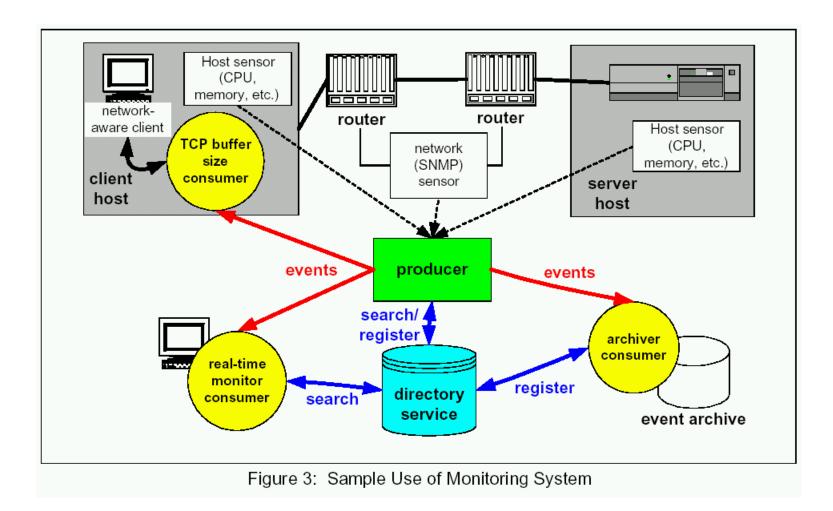


MDS in GT3



from: http://www.globus.org/ogsa/releases/final/docs/infosvcs/MDS.html

Example from GMA



from: http://www-didc.lbl.gov/GGF-PERF/GMA-WG/papers/GWD-GP-16-1.pdf

OGSA Logger System: Requirements

Abstraction of Legacy Logger Systems

- eg zOS System Logger, NT events, and UNIX syslog Persistency

- fundámental requirement

Support for Sequential Record Input and Output

- sequential I/O with record granularity Ordering of Log Records

- (at least a partial) ordering based on timestamp Standard Schema for Log Records

- standard xsd for log artifacts Stateful Read Cursor

- not invalidated by concurrent reads / writes Decoupling of Suppliers from Consumers

- eg audit, management, problem determination Broker

- concurrent access by multiple suppliers & multiple consumers Filtering

- everywhere, as close to source as possible Merged Log

- support for underlying mechanisms that permit the merging of multiple log streams Synchronous and Asynchronous Write Semantics

- .with: ack, callback for ack, and fire & forget Duplication of Log Streams

- .create a new stream from an existing stream Deletion of Log Records

- time-stamp based deletes

Coexistence w/ Messaging Fabric

- log-type persistency for the fabric

Standard Set of Specialized Logstreams

- Secure Logs (security QoS)
- Globally Ordered Logs
- Circular Logs
- Duplexed Logs (reliability QoS)
- Compressed Logs

OGSA Logger System (V7)

