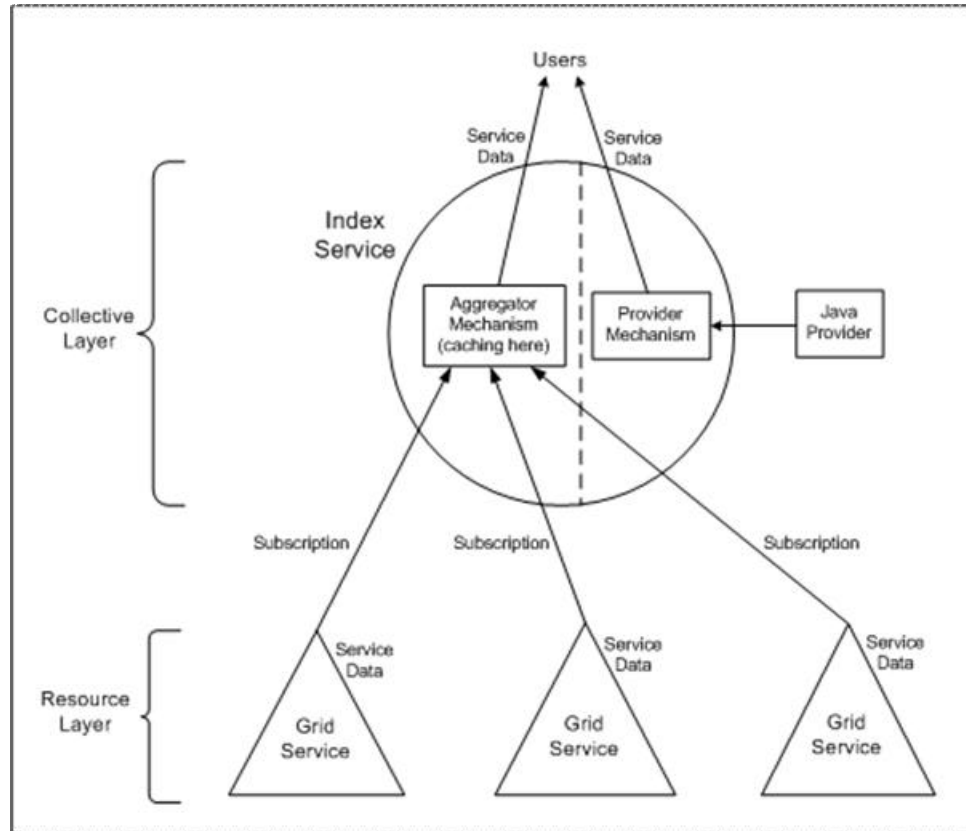


Comparison of Intermediaries
for
12/11/2003 OGSA-WG Teleconference
Discussions

OGSA-WG Logging Focus Area
Bill Horn
December 11, 2003

MDS in GT3



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

Example from GMA

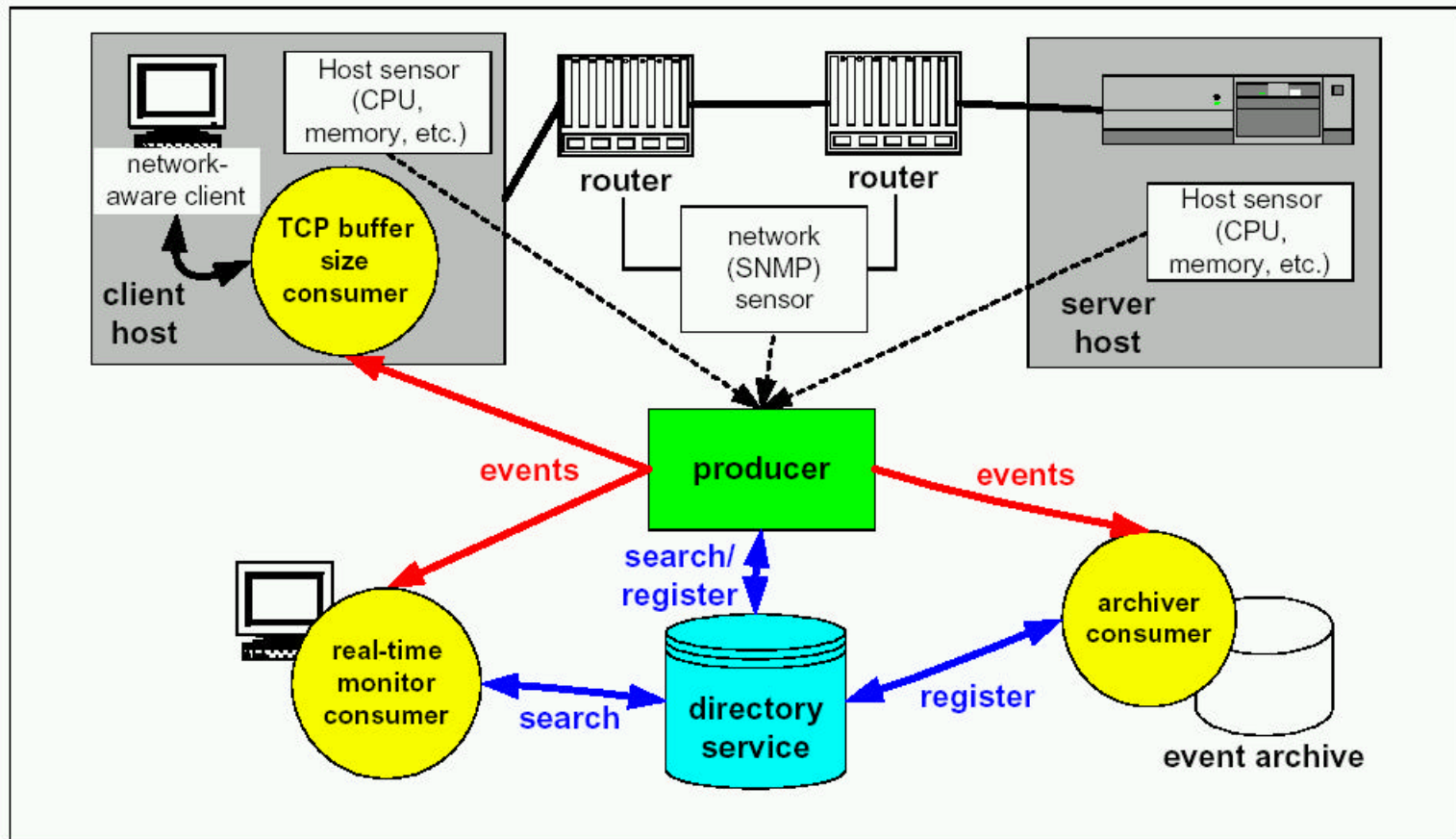
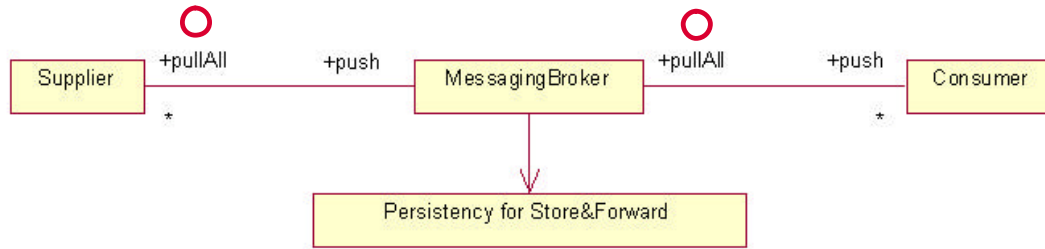


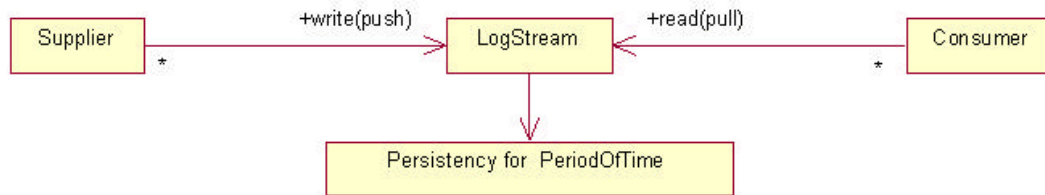
Figure 3: Sample Use of Monitoring System

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

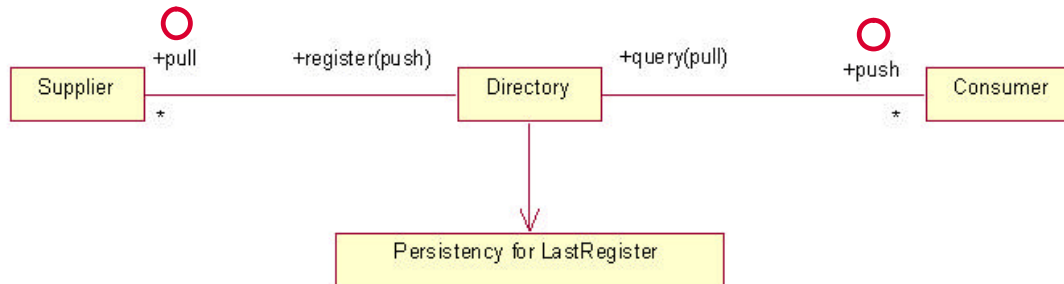
Patterns



Type 1
Message Broker



Type 2
Log



Type 3
Directory



Type 4
CORBA "generic" Event



Type 5
OGSI 1.0

OGSA Logger System: Requirements

Abstraction of Legacy Logger Systems

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

Persistency

- fundamental 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