

Logging and bookkeeping and R-GMA

(Component Convergence)

CESNET and UK/RAL teams

Contact: egee-jra1@muni.cz.

R-GMA and L&B

- R-GMA—General monitoring architecture with relational model
 - Very general
 - Trying to fulfill everybody needs
 - Contradictory requirements: fast, secure, reliable, flexible, ...
- L&B—Specific infrastructure to collect information about jobs and their states
 - Tailor-made, adapted to user specifications and requirements
 - Secure, trusted

R-GMA and L&B—Overlap

- Grid monitoring
- Similar infrastructure (interconnected producers and consumers, distributed system)
- Relational model usable in L&B, too

Convergence proposal

- Combine R-GMA and L&B—extended framework
- Only one infrastructure
 - But with specific purpose components (both nodes and communication channels)
- Allow independent development of components
 - Specialization, responsibility, ...

More Details

- Extend GMA with component *capabilities*
 - “I am encrypted channel”
- Attach *attributes* to data
 - “Must not be lost”
- Extend Registry with match-making of attributes and capabilities
- Every table (i.e. data) may declare several sets of attributes
 - For different column/row combinations
 - More than one *view* on a table

Summary

- One general infrastructure with uniform access
- Capable of supporting specific requirements
- Clean and simple interfaces
- Extended usability (e.g. Job Provenance, Accounting)
- R&D time frame:
 - Converged framework proposal around September
 - Prototype around end of the year