

CZ Cluster Summary

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Organization

- transformed “just/CZ” part of EGEE IT/CZ cluster
- 3 sites (Pilsen, Prague, Brno), 5 FTE, 11 people

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gLite components responsibility

- Logging and Bookkeeping – `org.glite.lb.*`
- Job Provenance – `org.glite.jp.*`
- Proxy Renewal – `org.glite.security.proxyrenewal`
- GSS and gSoap plugin – `org.glite.security.gsoap-plugin`

Logging and Bookkeeping

- developed in EDG, in production state
- gathers important events in WMS job life
- processes the events to provide high-level view on job state
- provides user with both the job state and debugging information

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- L&B proxy – smart two-way cache, improves robustness and performance of WM
- WS interfaces
- following WMS development (WMproxy, shallow resubmission, ...)
- support for L&B-based statistics and monitoring – **talk on Friday**
- stability and performance
- JP integration (gLite 3.1)

Job Provenance

- new subsystem, to appear in gLite 3.1
- takes over data on terminated jobs from L&B
- associates additional information (job sandboxes, accounting data, ...)
- long term storage and data mining
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Security

- proxyrenewal support following WMS requirements
- `security.gsoap-plugin`
 - thin layer on top of GSS-API, complete control on timeouts
 - gSoap plugin using this layer, used in L&B and JP

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 - advance resource reservations
 - data transfers
 - VDT (Condor) jobs
 - non-WMS EGEE jobs
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- incremental development yields difficult-to-maintain code
- addressed with “Generic L&B” proposal
 - re-engineering most of the L&B code
 - clear separation of L&B infrastructure “bones” and application-specific “flesh”
 - focus of development for EGEE-II

Job Provenance

- deployment of initial (gLite 3.1) release
- analysis of the deployment
- internal implementation improvements
 - configuration flexibility
 - communication robustness
- integration with additional components
 - WMS – sandbox upload
 - DGAS – accounting data
 - UI – query and job re-execution support

Security

- use of proxyrenewal in DM (in progress)
- revision of requirements desired, should emerge into new implementation
- MyProxy extensions (VOMS authorization)
- merge of `security.gsoap-plugin` and `security.cgsi-gsoap`