

Short term improvements to the Information System: a status report

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- From exchanges with experiments' representatives it became clear that the mission of the WLCG Information System has changed with time.
- The attributes used by middleware, experiments, monitoring and accounting tools are mostly *discovery or semi-static status* information.
- It is therefore important to:
 - Improve the global reliability of the service;
 - Provide a more static view of the available resources;
 - Improve the coherence and correctness of the information used.

- Deployment of a well managed set of top level BDIIIs.
 - Technical specifications presented at last T1 Service Coordination meeting (doc in preparation).
 - Next steps: identifying candidate T1s and fail-over strategy.
- Parallel deployment of “static”/semi-dynamic top level BDIIIs.
 - Technical implementation: increase validity of local cache.
 - Studying technical details/deployment strategy - risk analysis.
 - A few instances could be available in February 2011.
- Cleaning-up/consolidating IS used attributes: experiments, middleware, monitoring and accounting tools.
 - Usage patterns document in preparation.
 - Investigating on YAIM configuration and gstat2 monitoring.

- WLCG IS Usage Document (v.0.4) – 31/12/2011
 - Available in WLCG Information Officer Twiki:
<https://twiki.cern.ch/twiki/bin/view/LCG/WLCGISArea>
 - Not completed. – ALICE OK – Thanks!
 - Missing info from experiments, middleware providers and monitoring/accounting tools.
 - Still a draft but public: Everybody is welcome to comment/add.
- WLCG IS Data Quality Meter
 - Framework in place to measure the quality of data
 - Sites have been ticketed
 - Discovered and fixing a few issues with the information providers
 - Format of information
 - Undefined values
 - Difficult to estimate confidence (=probability of valid value)
 - Need a reference list for a few attributes for confidence=1
 - Feeding back to EMI developers

<http://grid-deployment.web.cern.ch/grid-deployment/flavia/ISQuality/ISresults.html>

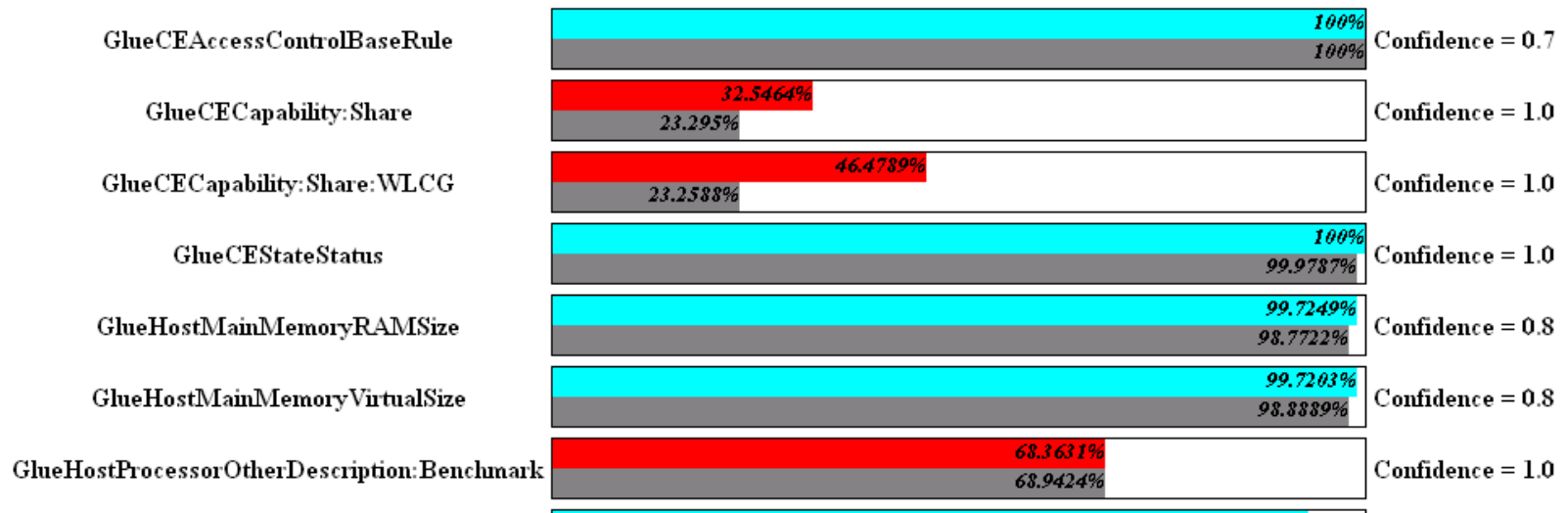
WLCG Information System Data Quality Meter

This page shows the results of the latest measurements of the quality metrics for the WLCG Information System on the attributes listed in the [WLCG Information System Usage Document](#).

The green/red bars indicate the value calculated during the last run while the gray bar indicates the value of the last run. This allows to identify changes with respect to the last run. The red bar indicates that the quality of the data is lower than 70%.

Notice: the set of metrics is incomplete. There is an ongoing effort to define the criteria for good values for the attributes in the WLCG IS Usage Document. Furthermore, the set of metrics will be completed with the definition of the attributes in the same document.

Last run: 2011-02-08-16:37



- “WLCG-specific” version of the top level BDII
 - Few modifications to support “static” views.
 - BDII_DELETE_DELAY
 - It allows site admins to specify the time till an entry is deleted
 - LDAP Replication.
 - It provides for a common cache for a load-balanced service
 - Service Status=Unknown
 - In case the info is retrieved from cache
- Ready by 15 February 2011 to be tested at CERN.
- Investigating about the possibility of a prototype deployment at CERN.
- If agreed, acceptance tests by WLCG VOs in the week of February 22, 2011.
- Evaluating if functionality useful/needed by EGI as well.

- Survey among WLCG T1s
 - Goal: check if requirements level acceptable
 - “Technical” requirements presented during the WLCG T1 Service Coordination meeting on December 20, 2011:
https://twiki.cern.ch/twiki/pub/LCG/WLCGISArea/BDII_Deployment_Plan.pdf
 - Deployment plan not yet detailed.
 - One top level BDII per continent (Asia, US/Canada, Europe[2-3])
 - Waiting for experience with semi-static BDII
 - Requirements/Plan will be reviewed based on what we learn deployment of static BDII.

T1s volunteering to host top level BDII according to specifications

- [Taiwan-LCG2](#) - Yes
- [NL-T1](#) - Yes
- [FZK-LCG2](#) - Yes
- [OSG](#) - Yes
- [BNL-ATLAS](#) - No because top level deployed by OSG in Indiana
- [NDGF-T1](#) - No
- [PIC](#)
- [RAL](#) - Yes
- [INFN-T1](#)
- [IN2P3-CC](#) - Follows EGEE model for French ROC with failover in place through DNS alias
- [TRIUMF-LCG2](#)

Flavia Donno - WLCG Deployment Board – February 9, 2011

- Cleaning-up/consolidating IS used attributes: experiments, middleware, monitoring and accounting
 - Document in preparation.
 - Framework in place to measure data quality.
- Deployment of “static”/semi-dynamic top level BDIIs.
 - Code available in 1 week for test.
 - VOs acceptance tests possible in 2 weeks, if plan accepted.
- Deployment of a well managed set of top level BDIIs.
 - Good response from T1s.
 - Need to review requirements based on deployment of [semi-]static top level BDII.
 - Need to refine deployment plan and failover strategy.