

LCG Management Board

Date/Time	Tuesday 26 October 2010 16:00 - 17:00 - Phone Meeting
Agenda	http://indico.cern.ch/conferenceDisplay.py?confId=82013
Members	http://cern.ch/LCG/mb.htm (Version 1 - 01.11.2010)
Participants	Jon Bakken, Ian Bird (chair), Maurice Bouwhuis, David Britton, Frédérique Chollet, Michael Ernst, Tiziana Ferrari, Qin Gang, Maria Girone, John Gordon, Denise Heagerty (notes), Pere Mato, Gonzalo Merino, Alberto Pace, Harry Renshall, Markus Schulz, Yves Schutz, Jamie Shiers, Reda Tafirout
Invited	Gavin McCance, Cristina Vistoli
Action List	https://twiki.cern.ch/twiki/bin/view/LCG/MbActionList
Mailing List	https://groups.cern.ch/group/worldwide-lcg-management-board/default.aspx
Archive	https://groups.cern.ch/group/worldwide-lcg-management-board/default.aspx
Next Meeting	Tuesday 9 November 2010 16:00 - 18:00 – F2F Meeting

1. Minutes and Matters arising ([Minutes](#))

The minutes of the last meeting were approved.

2. Action List Review ([List of actions](#))

The action list has been updated to reflect the following progress:

- The mandate of the proposed task force on whole node job submission is being followed up in the Architects Forum (Action 101012-1).
- The ownership and coordination of end-to-end network problems was presented at the last GDB however this action will remain open and John Shade will be asked to provide a follow up at the end of this year (Action: 100928-1).
- The 'live backups' of critical DBs will be discussed in the 3D workshop on 16-17 Nov (Action: 100907-1).
- Rather than creating a small architectural team, the role of existing structures (e.g. GDB, AF) will be reviewed to determine the place for the required technical discussions (Action: 100713-1).
- Installed Tier-2 capacity reports for each country will be reviewed at the F2F MB meeting on 9 Nov (Action 100713-5).

3. LCG Operations Weekly Report

Summary of status and progress of the LCG Operations. This report covers the WLCG activities since the last MB meeting. All daily meetings summaries are always available here: <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOperationsMeetings>.

Harry Renshall presented the slides attached to the agenda page. The following comments were noted:

Slide 4: EMI want to triage before tickets go to their 3rd level support. Ian Bird will discuss with Maria Dimou to understand the input she has requested.

Slide 12: the underlying cause of the CNAF-BNL network issue is still being investigated.

Slide 17: update from Frédérique Chollet: IN2P3 and LHCb have agreed to escalate 2 ggus tickets related to the shared software area. Tests of kernel level configuration parameters have been shown to provide an improvement.

4. Heavy Ion preparations

Alberto Pace presented the slides attached to the agenda page summarising the “one day data challenge” for the heavy ion run from the perspective of IT services at CERN. Although the amount of overlap between ALICE and CMS had been small, Ian Bird considered the results rather positive. In response to questions, the following points were made:

- Jon Bakken confirmed that FNAL had tested 30 GB files and that they had needed to increase several parameters to improve the performance of FTS transfers.
- The reason for keeping multiple copies of data on disk is to reduce the risk of data loss. Once the data has been copied to a Tier-1 site, the second copy at CERN will be deleted.
- Gavin McCance stated that a change to the LSF master at CERN needs to be scheduled before the heavy ion run.

Yves Schutz provided slides attached to the agenda and stated that these give similar information to those just shown. He added that, in addition to the CASTOR tests, ALICE also tested an additional disk pool for replication and first pass reconstruction.

Ian Fisk was not available at the meeting, but provided slides attached to the agenda and the following written information after the meeting:

The HI test in CMS was largely successful. The rate achieved into the Storage Manager (SM) at P5 was close to 2GB/s. While the SM is writing data at this rate it can only serve data at ~1GB/s. This represents the lowest impact running conditions where CMS takes full advantage of the time between fills. The average rate out during the test was 1GB/s.

Due to detector availability we actually used a playback mode in the trigger farm. This was largely realistic but increased the number of small luminosity files moving from P5 and occasionally sent lumi files out of order. Instead of a repacking pipeline of ~8 hours it was closer to 12 hours. This is visible as low rates into the T0Export buffer at the start of the test.

At 1GB/s we did not develop a backlog to tape and the 12 hour repacker pipeline is visible in a 12 hour shift in tape migration.

We did not write the reconstructed events to tape, because the replay was in a tight loop and there were many duplicate events that are checked by the reco application. This would result in an additional 15-20% of IO. We may do some optimization on the SM to get a more equitable balance of reads and write.

The 40GB RAW files are expected. CMS currently keeps data in luminosity sections which are 23s long. 150Hz at 12MB/event gives ~40GB files. This was expected not to be optimal because it exceeds the memory on the mover node, but looks like it did not seriously degrade the writing performance.

5. GDB Summary

John Gordon summarised the GDB meeting held on 13 Oct 2010. Here is the GDB agenda and slides: <http://indico.cern.ch/conferenceDisplay.py?confId=72063>. The following key points from the summary were noted:

- There is still some dissatisfaction with how OPN tickets are handled.
- Some gLite 3.1 components are being retired. In most cases security updates will not be provided after Jan 2011.
- The EMI middleware support unit want to triage tickets for 3rd level support (developers). Tiziana Ferrari stated that she did not expect this to add a delay.

- The Tier 2 capacity reports now include pledge data. A status of these reports will be presented at the F2F MB meeting on 9 Nov 2010.
- Data Management demonstrators presented their milestones and status. They had all made progress and will be asked for their concrete deliverables in Jan 2011.
- Possible topics for the next GDB are: CREAM status, OPN tickets, installed capacity, recent security drill, WLCG information officer plans.

6. AOB

6.1 Quarterly reports

For the next quarterly report, one page summaries of the (extended 4 month) period of July until end of October are requested by 5 Nov 2010. These summaries are requested for ALICE, ATLAS, CMS, LHCb, LCG services, GDB, application area and high level milestones.

In addition, the Experiment coordinators are requested to prepare 1 slide of their key issues for the MB meeting on 9 Nov 2010.

6.2 MB meeting on 8 March 2011

The MB meeting on 8 March 2011 will be held in Lyon. The GDB meeting will be held there on the following day.

6.3 OPS test for CREAM CE

Tiziana Ferrari reported that EGI wish to include CREAM CEs in the OPS availability tests. She requested input from WLCG on how to proceed with the change in logic this requires. Ian Bird will discuss this with James Casey.

Action: Ian Bird to discuss with James Casey on how to proceed with the change of logic required for including CREAM CEs in the OPS availability tests.

6.4 Roll out of components such as glxec for tier-2 sites

Markus Schulz raised the point that, as reported at CHEP, components such as glxec had only been deployed at some tier-1 and very few tier-2 sites. The roll out of such components in the past had been followed by the EGEE operations structure. John Gordon agreed to add a discussion on this to the agenda of the next GDB meeting.

6.5 Next meeting

The next meeting will be on Tuesday 9 November 2010 (F2F meeting).

7. Summary of New Actions

1. Ian Bird to discuss with James Casey on how to proceed with the change of logic required for including CREAM CEs in the OPS availability tests.