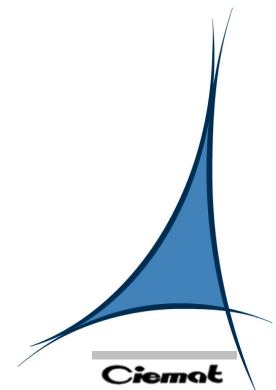


Operation Coordination and Commissioning [WLCG]

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On behalf of the WLCG Operations Coordination Team

GDB in KIT - Karlsruhe
[13th March 2013]



Outline

- ▶ News
- ▶ Task Force Updates
- ▶ perfSONAR deployment
- ▶ SL6 migration
- ▶ (EGI \leftrightarrow WLCG) UMD release plans
- ▶ Outlook

News

- ▶ Improving communication with Tier-2 sites is a priority
 - ▶ Identify volunteers to act as contact persons for regions
 - ▶ Get more site people onboard to participate/coordinate the task forces
- ▶ WLCG daily Ops meetings are now reduced in frequency (from 4th March 2013 on: Mondays & Thursdays)
 - ▶ 1st week experience: the meeting duration did not increase much
- ▶ Improving the communication between WLCG and EGI
 - ▶ Agreed that EGI gives a presentation once per month about middleware updates, UMD, etc... and co-leads the SHA-2 task force
 - ▶ First presentation made last week already: **“UMD release plans”**
- ▶ Task forces
 - ▶ The SL6 TF is a hot topic right now:
 - ▶ More representatives from sites for the SL6 TF? (contact Alessandra F.!!)

Task Forces Updates (1/4)

▶ Middleware deployment

<https://twiki.cern.ch/twiki/bin/view/LCG/WLCGBaselineVersions>

- ▶ Patch for the WMS client that fixes the known issue in the EMI-2 UI causing a fraction of WMS jobs to abort. Sites with an EMI-2 UI encouraged to upgrade
- ▶ sites need to install the latest Frontier/squid RPM by April at the latest. This will properly update the ACLs. If squid machines are behind a firewall, sites should open the monitoring port & check that the port is open to the new range of IPs
- ▶ dCache 1.9.12.* end of support by end of April. This triggered some discussions, as upgrading to the new golden release (2.2.*) for T1s might be not trivial as they need to integrate it with their tape backends. **Extension of support is expected**

▶ CVMFS deployment

<https://twiki.cern.ch/twiki/bin/view/LCG/CvmfsDeploymentStatus>

- ▶ 97 sites targeted by task force:
 - ▶ 56 sites deployed CVMFS
- ▶ 23 sites supporting ATLAS and/or LHCb have not yet deployed it
 - ▶ GGUS reminder to be sent
 - ▶ Deadline for deployment is end April. After that date no new sw will be installed

Task Forces Updates (2/4)

▶ gLExec deployment

→ CMS

- ▶ Expect to ramp up after the winter conferences
- ▶ gLExec being used in production at 20 EGI sites, 15 OSG sites
- ▶ [status](#) of gLExec tests (193 CEs on March 6th)
 - ▶ only the CEs tested successfully: [here](#) (93 on March 6th)
- ▶ CMS would like to have at least 90% of sites with gLExec enabled by 1st July

→ LHCb

- ▶ The verification of the functionality in DIRAC to start this week

→ ATLAS

- ▶ A much more robust design for the new implementation of gLExec support has been agreed by the PanDA team (great!)

Task Forces Updates (3/4)

▶ SHA-2

- ▶ The HW module for the new CERN CA already installed
- ▶ The new CA is foreseen to become available for tests soon
 - ▶ Deployment of a VOMS test server instance that would allow SHA-2 certificates of testers to be registered in WLCG VOs

▶ FTS3

- ▶ Stress & scalability tests results will be available soon, target metrics are being defined extrapolating from actual FTS2 usage during 2012-2013
- ▶ *Integration testing:* ATLAS used FTS3 pilot to populate new Russian T1 with prod. data; CMS T2s using FTS3 to import test data from all sites
- ▶ *Improvements:* Bulk SRM BringOnline operation implemented, retry failed transfers logic completed (categorization of the recoverable/non recoverable errors to be discussed), RESTful interface for transfer submission and status retrieval demonstrated, ...

Task Forces Updates (4/4)

▶ Xrootd deployment

- ▶ Xrootd deployment at WLCG sites continues both for ATLAS and CMS
 - ▶ Monitoring systematically the health of the service at each site will be soon crucial
 - ▶ The TF will study how to instrument **SAM tests** (proposal available soon)
- ▶ Collectors of the *xrootd detailed monitoring* are able to publish directly in AMQ
- ▶ *Collector consumers: the data popularity and dashboard transfer monitoring.* Efforts to unify the two monitoring workflows (unify the database schemas and the Web UI) to guarantee the future maintenance of these two services

▶ Tracking tools

- ▶ The deadline to migrate from Savannah to JIRA is the end of 2013
 - ▶ A tool to ease project migrations → Project owners can do it by themselves
 - ▶ Report on savannah-jira migration progress expected after Easter
- ▶ TF following the CMS savannah-GGUS bridge migration to a GGUS only solution. CMS involvement is needed

perfSONAR deployment TF

<https://twiki.cern.ch/twiki/bin/view/LCG/PerfsonarDeployment>

- ▶ Participation is **growing**: # sites & contact persons per region
- ▶ perfSONAR should be treated as a production service
- ▶ The TF is testing a new release (v3.3)
 - ▶ It will be ready this month, followed by a big push to get this in place in **all of the** WLCG sites
- ▶ The basic services provided by perfSONAR-PS have Nagios plugins available to verify proper operation
 - ▶ The TF is preparing SAM/Nagios probes to test all of the hosts
- ▶ Testing of "disjoint meshes" for inter-regional transfers

SL6 deployment TF (1/2)

- ▶ Task Force has been created
 - ▶ Good representation from all experiments (2-4 people per experiment), and sites (5 T1 and 6 T2).
 - ▶ TF is of course open to add other sites: PIC & KIT joined this week
- ▶ Mailing list: <http://goo.gl/ZvGZM>
- ▶ Twiki: <https://twiki.cern.ch/twiki/bin/view/LCG/SL6Migration>
- ▶ First meeting is being organized:
 - ▶ probably for next week (still checking doodle results)
- ▶ 31st October 2013 deadline to move the bulk of sites to SL6

SL6 deployment TF (2/2)

- ▶ Very active TF!
- ▶ Look at the last minutes: <http://goo.gl/3p3L8>

SL6 migration task force (A. Forti)

First points I collected in the discussions already had either in this forum or at the GDB

1. Understand each experiment sites status, i.e. Alice has already some sites on SL6, Atlas has 1, CMS? Lhcb?
2. Put together the documentation necessary for sites: some twiki pages already exist are there others? Are they all visible to the external world or do they require special access?
3. Test HEPOS_libs on external sites not using SLC6
4. Do we need test queues at sites? How can the upgrade be done? Atlas needs the SL6 nodes separated from the SL5 ones, I'm told CMS doesn't care because the pilot can test (is that true?), Lhcb? Alice?
5. What communication channels should we use to help sites move? Experiments? Tickets?
6. Do we need to follow every site?
7. Do we need to coordinate T1s? Atlas doesn't want all T1s going at the same time for example what are the other experiments thinking?
8. OSG sites? At the moment the representation is mostly EU centric + Canada.
 - FNAL and AGLT2 are represented now.
9. Do we need a target date? If yes it is important it either is far away from EMI-3 migration or it coincides with it. EMI-3 migration is by 30 April 2014.
10. ~~Issue with lxplus migration timeline raised by CMS. This has been solved.~~

Concerning the proposed target date for the migration to complete, it is agreed that September is too aggressive due to the summer holidays and October is more realistic. The expectation is that most sites will have migrated by then, and the rest of autumn will be needed for the "tails". Alessandra adds that many sites are eager to start now; more than half of the US-CMS sites have already migrated and US-ATLAS is pushing as well.

- ▶ TF asking for additional feedback if anyone has it

UMD release plans

- ▶ standing agenda item for the first meeting of each month about news from EGI, in particular about UMD updates

P. Solagna → <http://goo.gl/VEFhq>

- ▶ In February there were updates in UMD 1 (mostly security fixes) and in UMD 2
- ▶ Prioritisation of EMI-3 products for the first UMD 3.0 release
- ▶ Proposal to create UMD 3.0 for the EMI-3 products (end of April), which helps in keeping them separated from EMI-2 and makes its eventual decommissioning easier
 - ▶ The only negative effect would be the need for sites to change the repository configuration for new services
- ▶ Yet another UMD major release will be likely needed after the end of EMI/IGE
- ▶ Feedback is welcome before March 15

Outlook

- ▶ Significant progress reported by several task forces
- ▶ SL6 migration will be a hot topic in the next months
 - ▶ Sites are encouraged to be involved in the TF
- ▶ In general, we need stronger active participation of Tier-2 people in the WG activities
- ▶ Aim to improve the EGI from/to WLCG communication
 - ▶ End of dCache 1.9.12.* support to be announced soon

Links

- ▶ WLCG Operations coordination twiki:
<https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsCoordination>
- ▶ Mailing list:
`wlcg-ops-coord@cern.ch`