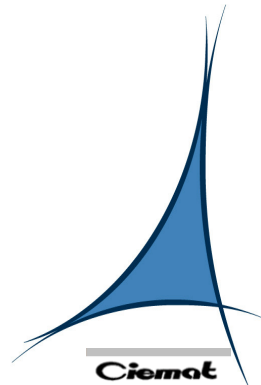


WLCG Operations Coordination

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on behalf of the WLCG Ops Coord Team

GDB @ CERN
[9th October 2013]



- ▶ Relevant Task Force Updates
- ▶ Change of WLCG operations coordination:
 - ▶ Maria Girone recently nominated as the next CMS Computing Coordinator, starting in January 2014
 - ▶ The WLCG Ops group wishes her lot of success on her new role!
 - ▶ Simone Campana to take over on WLCG Operations Coordination (Andrea Sciabà acting as deputy):
 - ▶ looking forward to work with them!

Middleware news

- ▶ New EMI-3 baseline version for **StoRM** is **1.11.2**
 - ▶ It fixes some known issues (related to FTS3) and supports SHA-2
 - ▶ **Sites should upgrade**
- ▶ Critical bug affecting **Top-BDII v1.1.1 or higher**
 - ▶ All with *glite-info-provider-ldap* version $\geq 1.4.5-1$
 - ▶ Symptoms: sites disappearing from the Top-BDII
 - ▶ Sites were notified through EGI on 21st/Sept
 - ▶ A workaround to fix the problem was provided
 - ▶ **Sites should upgrade**

Data Management provider news

- ▶ **DPM 1.8.7** has been released to **EPEL** (packages removed from EMI)
 - ▶ WebDAV BugFix release
 - [configuration of arbitrary ports, as required by ATLAS]*
- ▶ **gfal/lcg_util package: BugFix 1.16.0**
 - ▶ CERN DM group is following the same release strategy as DPM. This is released to **EPEL**
 - * Note: removing packages from EMI & releasing to EPEL is transparent to sites that use EMI
- ▶ Timescale retirement of **gfal/lcg_util** in favor of **gfal/gfal-util** under discussion
 - ▶ A package will be released for testing
 - ▶ See today's GDB presentation *[Long Term Plans for DM Client]*

gLExec deployment

- ▶ Tickets were opened to sites:
 - ▶ **46 closed** and verified
 - ▶ **48 still open** (but many on hold until mid/late autumn to unify with SL6 migration)
- ▶ **Note:** ATLAS sites are lagging behind more than sites for other VOs

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

SL6 migration 1/2

- ▶ Total number of **Tier1s Done**:
10/16 → ALICE 5/10, ATLAS 8/13, CMS 4/8, LHCb 5/9
- ▶ Total number of **Tier1s not Done**:
6/16 → 3 with a plan [KIT, FNAL, RRC-KI-T1]
3 in progress [CERN, IN2P3-CC, NDGF]
- ▶ Total number of **Tier2s Done**:
81/130 → ALICE 22/40, ATLAS 51/89, CMS 39/65, LHCb 21/45) **~62%**
- ▶ Total number of **Tier2s not Done**:
49/130 → Plan to complete it in Oct. (15 sites); Postponed to Nov. (4 sites)
Not replied... unlikely to finish by the end of the month (30 sites)
- ▶ Deadline for the migration is 31st October
 - ▶ there will be a fat tail after the deadline (~30 Tier2s) **~25%**

SL6 migration 2/2

- ▶ HEPSPEC06 HEPIX page is now being filled:
https://w3.hepix.org/benchmarks/doku.php?id=bench:results_sl6_x86_64_gcc_445
- ▶ Sites are encouraged to publish their results
 - ▶ Contact Michele (michele.michelotto@pdNOSPAM.infn.it) and Manfred (manfred.alef@kitNOSPAM.edu) so they can validate them and add them to the list
- ▶ **HEP_OSlibs** has a new version **1.0.13**
 - ▶ **Sites should upgrade** at their earliest convenience

SHA-2 migration

- ▶ **At CERN**, in the coming months the **VOMS servers will change CA to SHA-2.**
- ▶ Recently, proxies signed by BNL VOMS server were refused in many grid services, when its DN was recently changed.
- ▶ In order to minimise any disruption, a solution would be to deploy a 3rd VOMS server with the new CA, then removing the old ones
- ▶ The experiments need to test the **VOMS-Admin servers:**
 - ▶ To be provided by CERN
 - ▶ VO managers need to validate VOMS-Admin as a replacement for VOMRS
 - ▶ **We aren't seeing any progress so far**

CVMFS deployment

- ▶ **ALICE**: good progress since the last GDB:
 - ▶ 41 tickets closed - 11 tickets open
 - ▶ Used in production: 4/7 Tier1s & 29/57 Tier2s/Tier3s
- ▶ **CMS**: not yet completed (deadline 1st Oct)
 - ▶ General submissions of installation jobs stopped, but agreed to continue an additional month in some set of sites
- ▶ **LHCb**: Decommissioning of *lhcb-conddb* CVMFS repository
 - ▶ Due to changes in the reconstruction workflows this "fast updating" repository will not be used in production anymore
 - ▶ This repository can be **removed** as a mount point on WNs
- ▶ But... we are **not ready yet to remove shared areas** at the sites. This will be revisited in a few weeks.

Machine/Job features (1/2)

- ▶ Machine/Job features are a means to provide information from a resource provider (batch system, IaaS) to the payload. This information can be *static* (eg. power of the machine, number of cores, local scratch space) or *dynamic* (eg. shutdown time of a VM)...
- ▶ TF became ready this September and became really active. **Stefan Roiser** is coordinating it
- ▶ Meetings & Minutes: <https://indico.cern.ch/categoryDisplay.py?categId=4372>
- ▶ Mailing list: wlcg-ops-coord-tf-machinejobfeatures@cern.ch
- ▶ Twiki: <https://twiki.cern.ch/twiki/bin/view/LCG/MachineJobFeatures>

Machine/Jobs features (2/2)

- ▶ **Tool developed** "[mjf.py](#)". It can be called on the command line or imported in Python and returns job/machine features
 - ▶ Tested on CERN physical batch and OpenStack env.
 - ▶ Next steps includes packaging of the tool, deployment on *lxbatch*, and make it available to VOs for integration into their VMs for testing
- ▶ How to extract **HS06** values in **VMs**? This is an open question... HEPIX experts should be involved
- ▶ SAM test would be used to validate the published results

perfSONAR-PS deployment

- ▶ All sites should now install/upgrade to **perfsonar 3.3.1** and use centralized configurations
- ▶ See details on the slides linked from minutes:
<https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsMinutes130919>
- ▶ The procedure to register **perfSONAR-PS in OSG** has been revisited. OSG sites invited to follow the new instructions:
<https://twiki.opensciencegrid.org/bin/view/Documentation/RegisterPSinOIM>

IPv6 validation & deployment

- ▶ Relevant **scenarios** have been identified:
 - ▶ In order of importance: testing services DualStack with IPv4 clients, with DualStack clients, and with IPv6 clients
- ▶ **Use cases:**
 - ▶ Job Submission; Data transfer (including third party); Condition data access; Access to Experiment Software; Information System; Monitoring...
 - ▶ Then later, to test experiment workflows
 - ▶ TF Twiki & IPv6 compliance of WLCG services:
<https://twiki.cern.ch/twiki/bin/view/LCG/Wlcv6>
- ▶ ASAP test if moving services to DualStack config does not break anything (tests planned on CERN Agile Infrastructure)
- ▶ Sites welcome to join the **HEPIX-IPv6 working group**
 - ▶ several Tier1s and some Tier2s are already active

XRootD deployment

- ▶ Versions of the third party plugin for the **XRootD detailed monitoring of dCache** sites have been released in CERN WLCG repo (<http://linuxsoft.cern.ch/wlcg/>), compatible with dCache versions v1.9, v2.2. v2.6
- ▶ For dCache versions \leq v2.2 the installation of *xrootd4j-backport* plugin is additionally needed [distributed in the same WLCG repo]
- ▶ Summary of RPMs
 - ▶ dCache 1.9:
dcache19-plugin-xrootd-monitor-5.0.0-1.noarch.rpm & dcache19-plugin-xrootd4j-backport-2.4-1.noarch.rpm
 - ▶ dCache 2.2:
dcache22-plugin-xrootd-monitor-5.0.0-1.noarch.rpm & dcache22-plugin-xrootd4j-backport-2.4-1.noarch.rpm
 - ▶ dCache 2.6:
dcache26-plugin-xrootd-monitor-5.0.0-1.noarch.rpm

FTS3 integration and deployment

- ▶ Tests are **progressing well**
 - ▶ Issues with priorities and some file transfer stuck observed by ATLAS on RAL FTS3
 - ▶ Both the problems were understood and fixed by devs
- ▶ FTS3 server at CCIN2P3 stable for CMS Debug transfers, ready to accept more Tier-2s. Increased load on selected links on CERN FTS3 server
- ▶ Goal would be to support the whole WLCG data transfer infrastructure with a single server
 - ▶ Experiments concentrate on using the less possible stable FTS3 pilots; more efficient in reporting bugs (+checking the performance)
- ▶ **See today's talk** on future plans and going into production

Tracking tools evolution

▶ Decisive meetings these days

▶ **2013/10/09**

2nd meeting on savannah-to-jira migration of the GGUS dev. tracker

▶ **2013/10/08**

3rd CMS-GGUS meeting on migrating the savannah-ggus bridge

▶ **2013/10/08**

Tracking Tools Evolution TF meeting on savannah and GGUS dev. issues

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

▶ An update will be provided at the next WLCG Comp Ops Coord

Middleware readiness verification

- ▶ **Testing** MW and service updates on WLCG volunteering sites by running real workflows in **realistic conditions**
 - ▶ Extends EGI staged rollout using WLCG use cases
- ▶ Maarten L. as coordinator (*membership to be defined*)
<https://twiki.cern.ch/twiki/bin/view/LCG/MiddlewareReadinessVerification>
 - ▶ A mailing list will follow
- ▶ Proposal to maintain a table with all products, sites/people doing the testing and indications if a given version is verified
 - ▶ This should certify that a given version of a service is good for WLCG when it appears in UMD
 - ▶ Role of the experiments should not be underestimated, as this is a new effort never done before
 - ▶ **Site and experiment participation is essential**

New WMS decommissioning TF

- ▶ CERN plans to **decommission the WMS service** soon. The residual usage comes from SAM, some small fraction of the LHC experiment jobs and smaller VOs
- ▶ Maarten L. and Maite B. introduce the proposal to start the WMS decommissioning task force
 - ▶ Analysing the logs to determine exactly who are the users, and then to discuss alternatives with them
 - ▶ Twiki created: <https://twiki.cern.ch/twiki/bin/view/LCG/StopCERNWMS>
 - ▶ Mailing list: wlcg-ops-coord-tf-wms@cern.ch
 - ▶ Other volunteers are welcome
- ▶ About the ops SAM tests, WLCG will stop looking at them from January 2014

Conclusions and Outlook

- ▶ Many **active TFs** with remarkable **good progress**
- ▶ Machine/job features TF fully functional
- ▶ Middleware readiness verification TF just started
- ▶ CERN WMS decommissioning TF being setup

- ▶ Next WLCG Operations Coordination collided with CHEP
 - ▶ agreed to schedule it for the 24th October

- ▶ WLCG Operations coordination twiki
<https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsCoordination>

- ▶ Mailing list
wlcg-ops-coord@cern.ch