

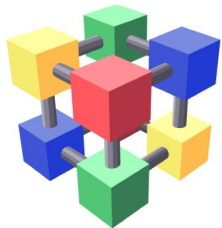
# WLCG Operations Coordination

Alessandra Forti

(on behalf of WLCG Ops Coordination)

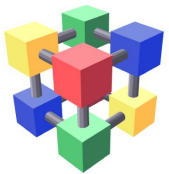
GDB

12th June 2013



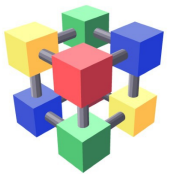
# Regional Contacts

- Regional T2 reps since March
  - **France: New!**
    - Yannick Patois (T2)
  - **Germany: New!**
    - Jan Erik Sundermann (T2), Thomas Hartmann (T1)
  - **Italy: New!**
    - Alessandra Doria (T2), Massimo Sgaravatto (T2)
  - **ROC-LA:**
    - Renato Santana
  - **Spain: New!**
    - Isidro Gonzalez (T2), Javier Sanchez (T2)
  - **UK:**
    - Alessandra Forti (T2), Ian Collier (T1), Jeremy Coles (GridPP)



# CVMFS Release

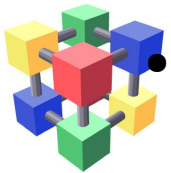
- 2.1.10 has been released on the 23<sup>rd</sup> of May
  - It has failover problems and shouldn't be used
- 2.1.11 is under test at RAL and NDGF
  - Tests at scale should be completed within two weeks
  - Required by Atlas on SL6
    - Contains CVMFS\_MOUNT\_RW fix
  - When released will be the recommended release and will supersede all other releases.
  - Sites moving to SL6 should be aiming at using this release



# CVMFS Procedures

- Enhanced release procedure
  - Code checking, local functional testing and stress testing
    - HC based stress testing on a multi-core WN.
    - A "burn in" test on candidate sites for at least 48 hours.
- SAM/NAGIOS probe
  - Testing deployed version, I/O errors, connectivity to Stratum1 via proxies, used file descriptors, etc.
    - Currently used in pre-prod by LHCb and CMS.
    - Other VOs interested in deployment.
- LHCb/Atlas work by TF is completed
  - All Atlas sites are completely deployed
  - 2 sites missed deployment target for LHCb

• CMS/Alice deadline April 2014



# CVMFS Alice

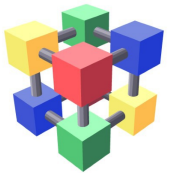
(Predrag Buncic)

- January 2013
  - ✓ Setting up Stratum 0
  - ✓ Deploy Alice SW on CVMFS
  - ✓ Migrate repository to Stratum 1
- June 2013
  - Test, test, test
- July 2013
  - Start deployment process on all Alice sites
    - Deploy repository but not in production
- August 2013
  - Run Alien on selected sites
    - Validate and evaluate stability and performance
- April 2014
  - Run Alien on all sites



# Glexec

- Deployment status presented at the MB meeting
  - MB decided the deployment needs to continue and proposed ramping up the campaign:
    - Ticket all WLCG sites that do not pass the tests
  - Tests are to become critical after a target date in autumn
    - No distinction among sites will be done based on how much the VOs they support are ready to use gLExec
  - Campaign will be tracked on a dedicated page
    - <https://twiki.cern.ch/twiki/bin/view/LCG/GlexecDeploymentTracking>
  - OSG will look into their sites
- No schedule yet
  - On TODO list to be discussed at the MB



# perfSONAR

- Release v3.3
  - Testing of RC4 has looked good in the US and CERN.
  - ESnet reported that RC4 looks good in general.
    - But is not released yet
    - Plan to push sites to use it when it is released
- OSG to discuss support of new dashboard for WLCG
  - TF working on how to publish the mesh tests in it
- Nagios tests for pS instances discussed with EGI
  - Need to add probes to the system
    - Will start process to add tests next week



# FTS 3 integration

- FTS-3 demo held 22nd May.
- Deployment model:
  - Important for experiments the ability to share configuration and scheduling information among FTS-3 instances.
    - Various Tier1s interested in this functionality to simplify running their own FTS-3 instance.
    - This will be investigated by the developers.
- Production services:
  - CERN and RAL discussing the possibility of having production quality FTS-3 services.
- There is no deployment schedule yet
  - Production nodes (no timescale)
  - First official FTS-3 release (1 month)
  - A twiki page to follow progress was requested





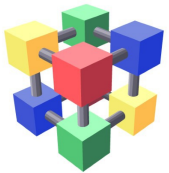
# SL6 migration

- CERN
  - lxbatch: 8K slots
  - lxplus: doubled capacity → 66x4 cores, 8 GB mem VM
    - VM capacity might be doubled (8 cores, 16 GB mem)
  - Intermittent login problem reduced with work arounds
    - Talking to sssd developers to solve it
- Other T1s
  - Nikhef and BNL big bang migration end of May
  - NDGF almost complete
  - IN2P3-CC migrating 25% by 11<sup>th</sup> June
  - CNAF waiting for delivery mid-June for more definite plan
  - RAL 10% of CPU deployed as SL6 in new HTCondor batch farm with ARC CEs. Decision on further migration to be made in 1-2 months.



# SL6 migration

- Some stats
  - T1s Done: 6/15 (ALICE 4/9, ATLAS 4/12, CMS 2/9, LHCb 3/8)
  - T2s Done: 20/131 (Alice 8/41, Atlas 7/91, CMS 11/65, LHCb 4/45)
- Updated procedure section with an extra link to Atlas procedure page for problems and work arounds
  - kernel vulnerability EGI Alert 2013-05-14
  - SL6 open() call treats flags differently than expected on read-only fs when files exist
    - Some ATLAS applications to fail when they access CVMFS files
    - The workaround is to mount CVMFS in rw mode.
    - BNL has the work around in production with no problems.
- New HEPOS\_libs version 1.0.10 needed at Alice sites
  - Includes bind-utils



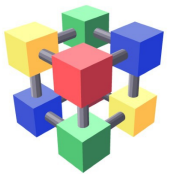
# SHA-2

- SHA-2 testing instructions are available since 1<sup>st</sup> May
  - Alice, ATLAS and LHCb started looking into this
  - CMS has now two people to actively contribute too.
- No strong deadlines yet:
  - Many middleware service instances need upgrading to SHA-2 compliant versions.
  - Intention for the full WLCG infrastructure to support SHA-2 some time in autumn.
  - EUGridPMA May meeting proposed all CAs to issue SHA-2 certificates by `_default_` from 1st Oct.
    - We should aim for that date.



# EGI update

- Highlights from presentation
  - EGI will test for SHA-2 compliance
    - New SAM test will read middleware versions from the top BDII
  - All the central EGI operations tools are SHA-2-ready
    - GOCDB, GGUS, Accounting and Ops portals and DB, SAM, MSG brokers
  - Migration the OPS VO (and the LHC VOs) from VOMRS (not SHA-2 compliant) to VOMS-Admin
    - Timeline not known yet. Urgent!
  - UMD 3.0.0 was released.
    - EMI-3 UI can't get proxy from BNL VOMS server - investigated
    - Some caveats with APEL clients.
  - More ARC SAM metrics will be included in SAM Update-22.
    - This impacts WLCG critical tests.



# Tracking tools

- Savannah → Jira migration
  - Migration steps have been added to the TF twiki
- If TEAMers/ALARMers belong to more than one experiment
  - There is an ACL problem in GGUS.
  - Very rare case and doesn't justify the development effort it would be required to allow for this case.
  - Using different DNs solves the problem more effectively.
- WLCG monitoring SU in GGUS to replace SAM/nagios/dashboard/... for 3<sup>rd</sup> level support unit
  - Discussion about the name still ongoing because this might affect also EGI users that share part of the infrastructure



# Links

- WLCG Operations coordination twiki
  - <https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsCoordination>
- Mailing list:
  - [wlcg-ops-coord@cern.ch](mailto:wlcg-ops-coord@cern.ch)

