# Operations Coordination

report on first months

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on behalfof the WLCGOpsCoord Group

# WLCG Service Operations, Coordination and Commissioning

Goals: Is the core operations and deployment coordination team and manages ongoing operational issues as well as new deployments. It works together with the EGI and OSG operations teams.

Main wiki page with pointers to all meetings minutes (6 coord. meetings and 1 planning meeting since September):

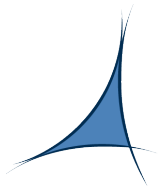
https://twiki.cern.ch/twiki/bin/view/LCG/WLCGOpsCoordination

NOTE: Next pre-GDB 15-Jan will be F2F WLCG Operations Coordination

Task Forces

- CVMFS
- Perfsonar
- SHA2
- Middleware deployment
- gLExec
- Tracking tools
- FTS 3 integration and deployment
- Xrootd
- Squid monitoring

# People





M. Girone, M. Dimou, A. Valassi, A. Sciabà, G. Merino, A. Di Girolamo, M. Litmaath, A. Klimentov, I. Ueda, I. Fisk, O. Gutsche, M. Cattaneo, S. Roiser, J. Coles, I. Collier, A. Forti, L. Dell'Agnello, R. Santana, T. Ferrari, R. Quick, Tim Cartwright, A. Da Silva, C. Wissing, M. Cinquilli, T. Wenaus, I. Sfiligoi, C. Grandi, J. Amando Molina-Perez, S. Mc Kee, S. Campana, M. Zielinski , S. Liu, B. Hegner, V. Diez, H. Dres, G. Grein, O. Gutsche, I. Ueda, N. Hoimyr, M. Schulz, O. Keeble, A. Tiradani, M. Sgaravatto, C. Aiftimiei, N. Magini, H. Ito, A. Lahiff, A. Cavalli, D. Barberis, A. Beche, D. Benjamin, B. Blumenfeld, A. Dewhurst, D. Dykstra, L. Linares, S. Teige, S. De Witt , Y. Wei , R. Gardner , B. Bockelman , G. Donvito , D. Giordano, J. Andreeva, M. Altunay , A. Tiradani, M. Barroso, G. Negri, G. Smith, A. Petzold, D. Qing, A. Sansum, M. Jouvin, B. Holtzman, D. Duellmann, B. Kersevan, F. Lee, M. Lamanna, S. Burke, U. Tigerstedt, D. Bonacorsi, R. Trompert, Wei-Jen, J. Iven, M. Salichos, U. Schwickerath, H. Meinhard, J. Gordon, P. Solagna, J. Closier, S. Gowdy, M. Guijarro, O. Zweers, E. Dafonte

# SHA-2

IGTF would like CAs to move from SHA-1 to SHA-2 signatures ASAP, to anticipate concerns about the long-term safety of the former.

Need to start verifying the RFC-proxy readiness for all relevant grid services and clients. Status tracked in this wiki:

https://twiki.cern.ch/twiki/bin/view/LCG/RFCproxySHA2support

New SHA-2 CERN CA will appear in Jan.

Work to verify SHA-2 compliance in UMD starting in Jan together with EGI.

OSG is ahead. Compliant versions for most grid components already exist.

# Middleware deployment

Issues tackled: moving away from unsupported m/w, migration to SL6, improving documentation, logging, error messages, etc.

EMI-2 SL5 WNs deployment is proceeding at WLCG sites.

- Experiments readiness tracked. OK for all since EMI2-Update6 (Nov 26)
- Tarball status:
  - "Tarball generation toolkit" available this week.
  - "Traditional tarball" expected ~Jan. It will be deployed in CVMFS.

SL6:

- Strong warning against upgrading to SL6. It has not yet been validated by ATLAS. Some ATLAS workflows CANNOT run on SL6 for some releases.
- SL6 is OK for ALICE, CMS and LHCb.

WLCG Software Life Cycle Process beyond EMI: see document attached to Oct 16 MB agenda. Comments/feedback being collected (Markus & Maarten).

# gLExec

The "ops" gLExec SAM test has been added to the EGI ROC_OPERATORS profile => failures raise alarms in the EGI operations dashboard.

- 1st Goal: EGI ROD teams to try and get the relevant sites in their regions to reach 75% availability (Dec-Jan)

Overall, there are not many sites that deployed it. Most probably it will be a big effort and a few months will be required (MyWLCG http://cern.ch/go/fgz8)

VO readiness:

- ATLAS: gLExec integration in pilot framework is ongoing. It will take time.
- CMS pilot infrastructure supports gLExec.
- ALICE will look into implementing Security TEG proposal (specially crafted proxies with critical extension that is only understood by glexec)
- LHCb will check if glexec support in DIRAC needs adjustments

SAM test exists, but is not "critical" yet. It will remain so for quite some time.

# Tracking tools

E-group wlcg-ops-coord-tf-tracktools@cern.ch created for this TF.

WLCG-Ops members with expertise in tracking tools (GGUS, SNOW, Savannah, Trac, Jira) are encouraged to self-subscribe.

Issues tackled:

- GGUS service certificate migration to SHA-2 (Savannah: 132379)
- GGUS reminders to be sent also to Notified sites (Savannah:131988)
- Review of the experiment critical services presented at MB (http://cern.ch/go/6sq7)
    - Action: M.Girone and M.Barroso to propose process for handling ALARMs for services currently not covered by GGUS ALARM tickets.

Ongoing discussion topics in the TF: savannah-GGUS bridge technical issues and savannah-JIRA migration.

# FTS3 integration and deployment

Mailing list for technical and organizational discussions:  fts3-steering@cern.ch
Meetings every 3 weeks co-located with the FTS3 demos.

Functional tests for the "FTS2-like configuration" ongoing for ATLAS and CMS (RAL, ASGC and CERN)

FTS3 features demonstrated

- Python client bindings, gridftp session reuse, extra gridftp debug log file per transfer.
- HTTP protocol transfers (demo by developers).

Asked to install FTS3 clients in a public area, to start testing new functionality.
Discussed how to use FTS3 as fallback in case of production FTS outage.

MySQL backend available for testing

# Xrootd

The TF will organize the rollout of services for the federated data infrastructures based on Xrootd planned by several experiments.

Started collecting requirements from ATLAS and CMS.

In close contact with the Storage Federations Working Group.

# Squid monitoring

Objective: since squids are multipurpose and multi-VO, move monitoring to WLCG responsibility and integrate with common WLCG operations.

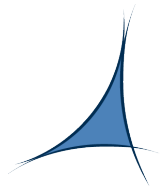
Currently squid servers are monitored for both ATLAS and CMS using a tool developed at FNAL, http://frontier.cern.ch (based on MRTG and awstats)

- Very useful tool for experts to debug after a problem is known.
- Planning to include CVMFS stratum 1 squids.

Need for more shifter warnings. E.g. send alerts when WNs failover and connect to central servers. Should be WLCG standard feature.

May use Aggregated Topology Provider (ATP) as source of configuration information (https://tomtools.cern.ch/confluence/display/SAM/ATP)

- Feeds from OIM & GOCDB, and experiment-specific extra data: ATLAS from AGIS and CMS from SiteDB.
- GOCDB is planning expansion which may suffice.





# thanks