



CERN VOMS server deployment

LCG Grid Deployment Board

<http://agenda.cern.ch/fullAgenda.php?ida=a057702>

2006-02-08



VOMS versions on the CERN primary server in production since October 2005



Hostname: lcg-voms.cern.ch

There is a replica of this host to take over as hot spare.

Runs glite voms-oracle R1.4.1 and VOMRS 1.2

VODB is built using VOMRS and ORGDB link.

VOs defined:

alice

atlas

cms

lhcb

dteam

sixt

unosat

geant4

test

Data reside on the CERN pre-production db server (grid8.cern.ch)

There are 170 entries across VO's in this db now.

Physical memory: 1.5GB



VOMS versions on the CERN secondary server in production since October 2005



Hostname: voms.cern.ch

Runs: glite voms-oracle R1.4.1.

VODB populated via synchronisation with the old registration system.

VOs defined:

alice

atlas

cms

lhcb

dteam

Data reside on the CERN pre-production db server grid8.cern.ch (this is a separate db) .

There are 1500 entries across VO's in this db now.

Physical memory:0.5GB



Still expected fixes to produce/test/deploy



There is a continuing difficult situation with voms development and support. Bug samples:

- The use of Connection Pooling in voms server code: Show-stopper as the CERN db services will not move VOMS data to the production server ([savannah #12613](#))
- Memory leak fix for voms client code: Fix submitted, being tested ([savannah #13899](#))
- Tomcat blockage for voms-admin code: Workaround being used but problems still exist ([savannah #14057](#))
- voms-admin (on MySQL) doesn't list users with more than one Role ([savannah #14398](#)).



The situation we are in



SC4 service requirements were:

- Move the database from MySQL to an Oracle backend (requires use Connection Pooling when contacting the db servers).
- Run only tested and certified gLite-released code on the production servers.
- Freeze software on Jan 31st 2006.



A way forward (I)



Continue the users' migration using VOMRS on the present VOMS-Oracle installation.

This is accepted and used by VO and ROC managers (for DTEAM) and new user registrations (using the CERN HR db link) are on-going.



A way forward (II)



While VOMS in gLite 1.5/gLite3 goes through:

- Identification of the voms' component versions acceptable for inclusion in the release.
- Formal testing for fixes.
- Validation with artificial load.
- Certification for integrating VOMS-aware services.
- Usage in pre-production with real users.
- Transparent upgrade of the production servers to new Hardware.



While we still need your help with LHC Experiment members not in CERN HR db



- The GDB asked us to take LHC Experiment VO members' Registration data from CERN HR db to avoid data and effort duplication.
- The VO candidates who aren't (20%) in this db, often need many days to be processed by the Experiment Secretariats.
- They also often use different data when applying for the VO, so the match with their CERN HR db entry is impossible. This creates a support overhead for us and the VO managers.



Related documents



- JSPG (Security) User Registration Requirements
<https://edms.cern.ch/document/428034>
- LCG Registration Task Force Mandate:
<http://cern.ch/dimou/lcg/registrar/TF/MANDATE>
- Link to ORGDB for LHC Experiment VO members
<https://edms.cern.ch/document/481701>
- LHC Experiment VO users' new Registration flow:
http://cern.ch/dimou/lcg/registrar/TF/VOMRS_Registration_flow.gif
- Up-to-date Status reports:
<https://uimon.cern.ch/twiki/bin/view/LCG/LcgScmStatusAas>
- Most recent VOMS testing report: <https://edms.cern.ch/document/631389/>
- VOMRS documentation, tutorials, tips for VO managers and users:
<http://cern.ch/dimou/lcg/registrar/TF/vomrs-tips.html>
- New registration: [https://lcg-voms.cern.ch:8443/vo/\[VOName\]/vomrs](https://lcg-voms.cern.ch:8443/vo/[VOName]/vomrs)
- Registration instructions for users and for/by VO managers in:
<http://cern.ch/dimou/lcg/registrar/TF/lhc-vos-transition-FAQ.txt>,
<http://grid.racf.bnl.gov/siteAAA/VOServices/USATLASVO.html>,
http://cmsdoc.cern.ch/cms/aprom/www/top/CMS_VO.html