

Detailed notes from the last VO Registration Task Force (TF) Workshop held at CERN Jan 22-26 2007

Monday Jan 22nd

Dedicated to VOMS Generic Attributes (GAs): The VOMS GA requirement was mentioned by LHCb during the last TF workshop (March 13-17 2006) and discussed in greater detail during the last TF checkpoint meeting (October 24 2006). The LHCb VO Admin, Joel Closier spent the day with the TF to ensure the LHCb VO requirements are well understood and correctly implemented, ready for use a.s.a.p.

Action 1

LHCb desires a GA, which they call *nickname* to carry the value of the VO member's afs login to facilitate filenames in storage (DN usage is inconvenient in file paths that also contain slashes).

As Atlas seems to intend the GA to represent something completely different, related to funding, hence influencing job priority in the batch system queue at the site, the need to **precisely** record the Requirements' list was emphasised.

The developers discussed methods to improve communication, especially when there are any new feature proposals or changes in api. We had about 2 hours discussion on the topic of GAs first within the TF, understanding how the GA is present in the voms-proxy, how VOMRS would implement GAs or branch-off to voms-admin for GA entry and/or update. Other details we discussed for another 2 hours in the framework of the VOM(R)S BOF.

Monday Jan 22nd WLCG VOM(R)S BOF

Participants: TF (Andrea Ceccanti, Vincenzo Ciaschini, Tanya Levshina, Lanxin Ma, Ian Neilson), VO Admins (Andrea Sciaba [CMS], Joel Closier [LHCb], Alessandro de Salvo [ATLAS], Patricia Mendez Lorenzo [representing Alice, Geant4, Gear, UNOSAT], Jiri Chudoba [Auger], Tomas Kouba [VOCE, Auger]), JSPG (Dave Kelsey), EGEE TCG (Claudio Grandi), NDGF (Michael Gronager), VOMS Tester (Maria Alandes Pradillo), VOM(RS) new service manager (Remi Mollon), site managers (Alessandra Forti, Gidon Moont).

Conclusions: There are definitely two experiments that need Generic Attributes (Atlas and LHCb). CMS start evaluating the possibility to use GAs to grant access to web pages. Alice's only categorisation of users will be the use of the Group=lcgadmin. GAs are not needed as all the rest is done by AliEn. Unosat, Geant4, Gear use no voms-aware services, so they need no GAs. VOCE and Auger need no GAs either.

We have asked VO Admins to provide written requirements in **this** document until mid-February 2007. EGEE VOs will be asked by Cal Loomis (NA4) to contribute. Claudio passed this request to Cal.

It was made absolutely clear that GAs should be handled on the level of a VO-specific software and will **not** be interpreted by the grid middleware.

voms-admin and voms core have already a version that can handle GAs. This will be tested on their test installation at CNAF by LHCb. Bilateral agreement will handle the details. The elaborate requirements now being collected will help improving the current implementation to satisfy all needs.

VOMS-ADMIN will ensure:

1. the GA uniqueness
2. the possibility for bulk selection (list of all DNs for a specific GA)

VOMRS will implement the following minimal requirements:

1. Provide the ability to use GAs (configurable)
2. VO admin can assign value to predefined GA during member's approval or later, if changes needed to be done
3. users will be notified about assigned GA and should be able to see it via vomrs
4. GAs will be attached only to VO membership (will not be Group-related)

AOB:

1. VODB Replication: Jiri expressed interested in voms database (VODB) replication. Replication assumes **one** master and multiple replicas. This is mostly working for MySQL. To do:

- Re-launch the CNAF-CERN Oracle teams' communication on testing the code that allows this **Action 2**
- Open a savannah ticket for gridmap generation script change. It would consult the replicas **if** the master fails. **Action 3**

2. CA Rollover: The recent UK and INFN changes of the CA DNs (with no change of the user DNs) created a lot of confusion for users and VO Admins. A page of help is available on the twiki about this.

3. End of the TF: The LCG Task Force, achieved its goals and should be dissolved. It was suggested that the GDB should advise on how to proceed and organise future communication between VO managers and voms/vomrs developers. By the time these notes are published this was done during the February 2007 GDB [☞](#).

Tuesday Jan 23rd

jdk-1.5: After a few weeks of testing on voms-test.cern.ch, we installed jdk-1_5_0_09-linux-i586.rpm on the 3 CERN production servers voms10[1,2,3].cern.ch and we changed the site configuration files accordingly. No problem was presented ever since related to this java version change.

voms bugs: Maria Alandes prepared a document containing the VOMS bugs in savannah [☞](#). The bugs were examined one by one. Some of them were fixed for quite some time but the relevant glite patch was not yet in production for us to install it (example: <https://savannah.cern.ch/bugs/?13888> [☞](#) which is fixed months ago but the relevant patch #869 [☞](#) required persistent escalation to the EMT, in order to get, by the time these notes are written, to the production repository. Joachim advised us to always pursue via the EMT every urgent request.

WLCG VOMS Groups/Roles session attendance: The TF went to the Main Amphitheatre to attend this session [☞](#). We could identify no request to the VOM(R)S developers for the use of Groups/Roles by the grid services. Notes of that session by Remi are attached at the end of this page.

Wednesday Jan 24th

Oracle usage optimisation: The table on page VomsOracleImprove was used as reference material for our discussion. The Oracle group applies pressure for use of long connection strings, i.e. multiple listeners and OCI connections. The multiple listeners were introduced so far in `/opt/glite/etc/voms/tnsnames.ora` and `/var/glite/etc/voms-admin/VOname/voms.database.properties` by running the 'home-made' voms.message script [☞](#) after the configuration script `/opt/glite/etc/config/scripts/glite-voms-server-config.py`. This was a confusing procedure. The new voms-admin and glite configuration script take care of properly defining all the listeners. We installed the patch [☞](#) containing the fix [☞](#) in production. We understood that:

- the voms core configuration files `/opt/glite/etc/voms/VOname/voms.conf` should contain the Oracle **account_W** to enjoy a big number of parallel connections.

- the voms-admin configuration files `/var/glite/etc/voms-admin/VOname/voms.database.properties` cannot, unfortunately, contain the **account_W** because voms-admin always checks if there is something to re-configure, while starting. Either:
- the voms-admin configuration scripts have to be changed in order to split the automatic upgrade from normal operations or
- we continue using the **account** and live with the 10-sessions limit and the additional inconvenience of regular password expiration, which, so far, issues no warning. **Action 5**

Vomrs uses the **vomrs_account_W** in each VO configuration files **but** when an upgrade takes place, which involves change of the database schema the **vomrs_account** should be used instead, which are enabled to do CREATE_TABLES and other privileged commands.

Concerning the use of OCI, instead of *thin* connections to the database, progress was made with advice from Piotr Nyczyk. It must be completed a.s.a.p. to be moved to production. **Action 4.**

Miguel Anjo sent a SQLPlus tutorial to assist the developers: in html [or](#) in pdf [or](#). Other information: http://www.oracle.com/pls/db102/portal.portal_db?selected=4 These pages also accessible from <http://oradoc.cern.ch/>

There was a question on licence for use of the rpm built at CERN for Oracle instantclient can also be used by Tier1 centres. Dirk Duellmann, responsible for Physics Database services advised that the glite packaging people decide on a common way of handling this dependency across glite packages in the release. If they all agree we can (re-)discuss how to properly include the package with the licence forms. Markus Schulz and Alberto di Meglio were informed of this requirement. **Action 6**

Discussion of vom(r)s testing for Oracle patches and security updates:

- Test voms/voms-admin *inserts* and other voms-admin commands submitted via automated bulk transactions, under heavy load, developed by Victor. **Action 7.**
- multiple concurrent gridmap file generation processes. **Action 8.**
- voms-proxy commands. A stress test script will be provided by Vincenzo. **Action 9.**
- vomrs testing should contain Tanya's stress tests for *inserts*.

These are the links we have today about test suites and reports: * Voms test suite [or](#) * voms-admin test suite * Vom(r)s test reports [or](#) * Detailed Vom(r)s test reports The testers will make the necessary updates following this discussion. **Action 10.**

By the time these notes are written Maria D. created the mailing list **project-voms-test@cern.ch** for future information distribution that affects voms and requires testing.

Thursday Jan 25th

VOMRS bugs' discussion: The following list of tickets were **Fixed** and (by the time these notes are written) were **Closed** in <https://savannah.cern.ch/projects/lcgoperation/>

<https://savannah.cern.ch/bugs/?12042>, <https://savannah.cern.ch/bugs/?14990>,
<https://savannah.cern.ch/bugs/?15146>, <https://savannah.cern.ch/bugs/?15164>,
<https://savannah.cern.ch/bugs/?15270>, <https://savannah.cern.ch/bugs/?4861>,
<https://savannah.cern.ch/bugs/?10446>, <https://savannah.cern.ch/bugs/?14653>,
<https://savannah.cern.ch/bugs/?14762>, <https://savannah.cern.ch/bugs/?15012>,
<https://savannah.cern.ch/bugs/?15134>, <https://savannah.cern.ch/bugs/?15153>,
<https://savannah.cern.ch/bugs/?15244>, <https://savannah.cern.ch/bugs/?15744>,
<https://savannah.cern.ch/bugs/?15751>, <https://savannah.cern.ch/bugs/?15842>,
<https://savannah.cern.ch/bugs/?16558>, <https://savannah.cern.ch/bugs/?16562>,

<https://savannah.cern.ch/bugs/?16724>, <https://savannah.cern.ch/bugs/?17392>,
<https://savannah.cern.ch/bugs/?14993>, <https://savannah.cern.ch/bugs/?17050>,
<https://savannah.cern.ch/bugs/?22272>, <https://savannah.cern.ch/bugs/?22223>,
<https://savannah.cern.ch/bugs/?18722>, <https://savannah.cern.ch/bugs/?18298>,
<https://savannah.cern.ch/bugs/?18013>, <https://savannah.cern.ch/bugs/?18002>,
<https://savannah.cern.ch/bugs/?17392>.

A number of other bugs were updated, after the workshop by Lanxin and are attached to these notes. VOMRS new bugs and remaining ticket updates are done in savannah. Example:
<https://savannah.cern.ch/bugs/?23723>.

Re-evaluation of the CERN vom(r)s servers' architecture: The good news is that since Dec 13th 2006 when a tomcat melt-down dictated a new architecture for the CERN servers, namely:

- voms.cern.ch being now used for gridmap file generation only (requires voms-admin)
- lcg-voms.cern.ch being now used for user registration only (requires vomrs).

and especially since the solution of the tomcat hangs we have no more complaints about the vom(r)s service performance.

Nevertheless, a log from the voms-ping output should be made so that we understand better when LinuxHA is invoked and why. This will help us anticipate problems and plan changes to maintain optimal performance.

Action 11.

Moreover, the plan to use tomcat5.5-5 was discussed (the rpm currently installed being tomcat5-5.0.28-11_EGEE). Joachim informed us that:

- tomcat 5.5-5 requires SLC4.
- glite3.1 will be made available only on SLC4.
- UIs and Worker Nodes are urgent. The other services, including VOMS will be given one year to migrate.
- voms-admin-2.0, planned for glite3.1 will be deployed on SLC4 as required by glite. Then vomrs can start its inter-operability testing.

The ACLs' API changes with voms-admin-2.0. Given that vomrs doesn't use ACLs, no problems are to be expected.

Documentation review: There was no time to discuss all the documentation sources listed on the workshop agenda. Joachim's guide was distributed to the participants for comments and is now available on <https://edms.cern.ch/document/818502/1.0>

Friday Jan 26th

DTEAM VO Registration flow review and presentation to the CERN ROC managers: Remi, Lanxin, Tanya and Maria went through the *special* DTEAM registration flow and prepared this presentation for the CERN ROC Managers that took place in the afternoon. With Maria D.'s new tasks in 2007 it is unclear who will be the primary DTEAM VO Admin. This will be discussed further within the Grid Deployment group at CERN.

Lanxin will write a FAQ for AUP change categories (simple typo or major change with prompt to users to re-register). **Action 12.**

A.O.B.

Monitoring tools review: There was absolutely no time to discuss this agenda item [?](#). An short discussion about vomrs-ping, pending some specifications to come from Tanya **Action 12**.

New vomrs-proxy-init functionality: When we test new installations or upgrades we need vomrs-proxy-init to look **first** in the file we give with the *-vomrses* option (synonym to *-confile* and *-userconf*, now deprecated). **Action 13**.

Action list

Number	What	Who	When	Status
1	Test vomrs-proxies with GAs	LHCb VO members and VOMS developers at CNAF	a.s.a.p.	Joel will test with the CNAF vomrs installation and LHCb application Ganga
2	Voms Oracle replicas	CERN-CNAF Oracle experts	a.s.a.p.	Maria D. spoke to Dirk Duellmann. She 'll send email the experts.
3	mkgridmap script handling replicas	Maarten	when VODB replication tests completed.	Maria D. spoke with Maarten. She'll open savannah tickets
4	Complete VOM(R)S re-packaging for OCI use	Developers/Integrators/Deployers	a.s.a.p.	Andrea documented the method here ? . Joachim should write in the ticket what/when changes will appear in the glite-VOMS_oracle rpm. Tanya should update bug #19690 and bug #19692 .
5	Decide on vomrs-admin config. change account_W	Remi	a.s.a.p.	To open ticket and assign to Andrea
6	Make available the Oracle instantclient without licensing problems	Joachim	a.s.a.p.	To open ticket and follow-up
7	Create _W accounts for Maria Alandes and Lanxin in int3r for performance/load testing.	Miguel	a.s.a.p.	
8	add timing info to vomrs/vomrs-admin test suites.	Victor	a.s.a.p.	Maria A. please open savannah ticket to use as reference
9	vomrs-proxy commands' stress test script.	Vincenzo	a.s.a.p.	Maria A. please open savannah ticket to use as reference
10	Update test suites' definition to include Oracle 3-monthly	Maria A. - Lanxin	a.s.a.p.	

RegistrationTFend < LCG < TWiki

	updates' tests.			
11	Log vomrs-ping output	Remi	a.s.a.p.	Depends on bug #19770 ↗ which is urgent
12	Email threads vomrs-ping should check	Tanya	Done	Please put in or attach from bug #19774 ↗
13	Write FAQ for vomrs VO Admins on how to change the AUP text	Lanxin	a.s.a.p.	
14	vomrs-proxy-init to look first in the file we give with the <i>-vomrses</i> option and then into the system vomrses file/dir	Vincenzo	a.s.a.p.	Vincenzo to open a savannah ticket for himself to facilitate progress follow-up

-- Main.dimou - 06 Feb 2007

This topic: LCG > RegistrationTFend

Topic revision: r13 - 2011-06-21 - AndresAeschlimann



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback