



Enabling Grids for E-scienceE

# Analysis of VOMS, VOMS-admin and G-PBox

*JRA1 All-Hands, Catania*

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*Vincenzo Ciaschini*

[www.eu-egee.org](http://www.eu-egee.org)



- **Certification restarted with VOMS-Core 1.7.15.2.**
- **VOMS-Admin 2.0 has been delivered to CVS.**
- **Setting up the server for the security tests has been completed.**

- **org.glite.security.voms-api-c, org.glite.security.voms-api-cpp**
  - globus, expat
- **org.glite.security.voms-api-noglobus**
  - OpenSSL, expat
- **org.glite.security.voms-server**
  - org.glite.security.voms-api-cpp
- **org.glite.security.voms-clients**
  - Org.glite.security.voms-api-cpp
- **org.glite.security.voms-api-java**
  - bc, cog, log4j, commons-lang, commons-cli
- **org.glite.security.voms-mysql**
  - Mysql-devel
- **org.glite.security.voms-oracle**
  - oracle-instantclient

- **Not a big issue!**
  - Just taking into account a different build infrastructure...
  - Biggest hurdle: having a version of Globus compiled for the hosts on which to build.
    - Versions compiled for different hosts are no good, no matter how similar the two are!
- **Problem dependency: oracle-instantclient**
  - Necessary to support Oracle DB.
  - But does not work in the SLC4 64 bit build: Implies that voms-core cannot be completely built on the 64 bit build.
  - Apparently, some problems with licensing of Oracle...
    - Whatever, just make it work!

- **VOMS-Admin 2.0 is a complete redesign of the old codebase**
  - voms-admin-server and voms-admin-interface are now merged in a single module. voms-admin-client will be merged too.
    - However, the modules will not disappear. Different RPMs will still be produced.
  - Release 2.0.1 builds on ETICS, and is in “production” on a omiieurope testbed

- **org.glite.security.voms-admin-server**
  - Hibernate, struts, axis, javamail, trustmanager, util-java, jaf, commons-\*
- **org.glite.security.voms-admin-interface**
  - axis
- **org.glite.security.voms-admin-client**
  - voms-admin-interface, SOAP::Lite

- **Problem dependency: voms-admin depends on voms via trustmanager**
  - Trustmanager has an indirect dependency on test-utils, which in turn depends on voms-clients.
    - Since the dependency is there for the need to use voms-proxy-fake to generate test proxies (currently not used, anyway), why not include pre-generated proxies and drop the dependency?

- **Problem Dependency: perl-SOAP-Lite**
  - Used by the current voms-admin-client to talk with the server.
  - Version  $\geq 0.67$  necessary to speak with Axis 1.2.1
  - Axis 1.2.1 requested by EMT.
    - Also, necessary for compatibility with Java 5
  - However, this version is not among those distributed by the system.
    - Is not clear to us how an update for an SLC package can be requested
- **Possible solution**
  - Get the SOAP-Lite as an etics external dependency
    - Not depending on the specific version provided by SLC makes porting the voms-client to other architectures easier
  - Move the client to python
    - Already planned, not much work



- Available on Preview testbed.
- Restructuring of the UI.
- Less cumbersome certificate management.

- **org.glite.gpbox.common**
  - jaxb, trustmanager, log4j
- **org.glite.gpbox.server**
  - exist, sunxacml, org.glite.gpbox.common
- **org.glite.gpbox.admin**
  - swing-layout, org.glite.gpbox.common
- **org.glite.gsilib.apijava**
  - log4j, sunxacml
- **org.glite.gpbox.gsilib**
  - globus
- **org.glite.gpbox.pep**
  - org.glite.gpbox.gsilib, expat
- **org.glite.gpbox.lcmapi-plugin**
  - org.glite.security.lcmapi, org.glite.gpbox.pep

- **No big problems.**
  - Though some (heavy) restructuring of the C/C++ part had to be done.
  - Now builds on ETICS
    - Except in 64 bit: something weird happened where system headers went missing.
      - *No big problem are foreseen*
      - *It built previously 😊*
- **Problem Dependency: trustmanager (again)**
  - See slide 4 😊