# **Security Cluster Status.**

*John White, Helsinki Institute of Physics.*
*EGEE JRA1 Deputy Middleware Manager.*

**www.eu-egee.org**

Information Society

eGee

- Component status
- Restructuring
- Interoperability

- General maintenance and bug-fixing work.
- Plenty of log4j work.
- Considered stable now.
- Need to fix the "bcprov-jdk14" vs. "bouncycastle" issue.
  - Old version (1.22) of BC vs. new version (1.3x).
- For Util-java dependency on test-utils and therefore on globus openssl.
  - Fix in the pipeline.

**egee**

- In general, stable.
- New VOMS attributes plugin (LCMAPS 1.4x) for VASH (SWITCH).
    - Both LCAS and LCMAPS. Need VOMS $\geq$ 1.7.0
- Circular dependency in ETICS in LCMAPS solved.
- Site-central LCMAPS service planning.
    - Subject to AuthZ study/report/TCG.
    - Scalability numbers passed on.

- In general, stable.
- Subject to extensive scrutiny: Sites in LCG wary.
  - Code review from UK sys-admins. Suggested fixes made.
  - More valgrind testing.
  - More acceptance from the site people now.
- New release to VDT (1.8.1).
  - glexec-osg 0.3 (glexec 0.5.22.0, lcas 1.3.7 and lcmaps 1.3.15.1)
  - Used at Fermilab on WNs for months now.
- Issue: GridPP from GDB:
  - **Three separate binaries for glexec?**

- VOMS: general progression of versions.
  - 1.7.18 → 1.7.23.
- VOMS-Admin.
- Now we have two versions:
  - (1.2.x (x≈19) SLC3 VDT.
  - (2.0.x (x≈8) SLC4 gLite. **(Certified)**
- VDT handling the 1.2.x version.
- Certification of 2.0.x underway (gLite).
- Then can have one version.
- GDB Issue: VOMS FQAN matching rules?
  - Produced a definitive document.
    See `https://edms.cern.ch/document/858263/1`.
  - Two "matching" libraries (C, Java) produced.

- VOMS roadmap to globus-less state clear:
    1. Server capable of GSI and SSL (1.8.0).
    2. Clients OpenSSL-only (1.9.0).
    3. Server OpenSSL-only (2.0.0).
- Presented at MSWG @ EGEE07.

- SLCS: Short-lived Credential Service.
  - In CVS, stable.
  - Being used as a basis for Pseudonymity service.
- VASH: VOMS Attributes from SHibboleth.
  - In CVS, stable.
  - Being used as a basis for Pseudonymity service.

- Under testing with CREAM.
- Developed new test classes to support SAML2-XACML2 protocol.
  - Based on extension of OpenSAML2 and SunXACML OpenSource libraries.
- Integration of SAML2-XACML2 libraries and XACML PDP.
- New PDP for generic attributes.

- Key splitting algorithm integrated to Hydra client.
- Under developer-testing.
- Prototype for Biomed before end of year.

- All security components have finished dependency challenge.
- No major dependency problems found.
  - bcprov vs. bouncycastle issue identified (not only security components).
  - gsoap versions rationalized from 4 to 1 version (not only security).
- Client/Server/Common separation.
  - Mainly applicable to VOMS/VOMS-Admin.
  - VOMS-Admin client/server well separated logically, no RT deps.
- SLC4 readiness.
  - Trustmanager needs bouncycastle.
  - glexec more testing on CentOS/SL4.
  - LCAS/LCMAPS still underway.

- For AuthZ: gLite (XACML); OSG (SAML)
- VOMS also understands SAML.
- Agreement with OSG to cooperate on an XACML2-SAML2 library.
- Provides the interfaces between. Written by globus team.
  - globus already had started some work.
  - globus-specific code to be omitted.
  - Library delivered at end of August as promised.
- Library delivered at end of August as promised..
  - Evaluation by EGEE-side.
  - Generally library fine.
  - Use auto-generated code or SAML2 XACML2 libraries.
  - Have to respect the schemas.
- Cooperation ongoing... weekly teleconfs.

- Security components:
  - Responding to requests rather than new features.
  - Finished dependency challenge.
  - SL(C)4 ready.
- eg. Authorization services subject to review.
  - Attempt to clarify/rationalize the services.
  - Much more later.

## As of 24/10/97 10H00
bcprov-jdk14 v. 1.22

| | | |
|---|---|---|
| org.glite.apel.core | glite-apel-core_R_2_0_9_1 | BR |
| org.glite.rgma.server-servlet | glite-rgma-server-servlet_R_5_0_45_1 | B |
| org.glite.data.transfer-fts | glite-data-transfer-fts_R_3_3_2_2 | B |
| org.glite.security.util-java | glite-security-util-java_R_1_3_8_2 | B |
| org.glite.amga.api-java | glite-amga-api-java_R_1_3_0_pre2 | BR |
| org.glite.security.delegation-service-java | glite-security-delegation-service-java_R_1_2_1_1 | B |
| org.glite.data.catalog-service-fr | glite-data-catalog-service-fr_R_2_1_15_2 | B |
| org.glite.data.catalog-service-fr-mysql | glite-data-catalog-service-fr-mysql_R_1_4_7_2 | B |
| org.glite.security.voms-admin-server | glite-security-voms-admin-server_R_2_0_8_1 | B |
| org.glite.security.voms | glite-security-voms_R_1_7_24_1 | B |
| org.glite.security.trustmanager | glite-security-trustmanager_R_1_8_11_1 | B |
| org.glite.e2emonit.netmon2rgma | org.glite.e2emonit.netmon2rgma.2.3 | BR |
| org.glite.data.hydra-service | glite-data-hydra-service_R_1_1_0_2 | B |
| org.glite.security.delegation-java | glite-security-delegation-java_R_1_4_4_1 | B |
| org.glite.rgma.services | glite-rgma-services_R_5_0_45_1 B | |

**As of 24/10/97 10H00**
bouncycastle v. 1.34 jdk 1.5

| | | |
|---|---|---|
| org.glite.security.vash | glite-security-vash_R_1_0_0_1 | B |
| org.glite.slcs.server | glite-slcs-server_R_1_0_0_2 | B |
| org.glite.rgma.stubs-servlet-java | glite-rgma-stubs-servlet-java_R_5_0_10_1 | BR |
| org.glite.slcs.common | glite-slcs-common_R_1_1_1_1 | BR |
| org.glite.slcs.ui | glite-slcs-ui_R_1_1_1_1 | BR |