

## GLITE VOMS SERVER AND ADMINISTRATION TOOLS

### 1. RELEASE DESCRIPTION

This release contains the gLite VOMS Server and Administration Tools module v. 2.0.0. The following sections provide additional information about the release content, the module dependencies, the known bugs and issues and a list of bugs closed since the previous release. For information about installing and using the gLite VOMS Server and Administration Tools, please refer to the gLite Installation and User Guides.

### 2. CHANGES IN THIS RELEASE

This release contains the following changes:

- The new VOMS server has now support for Oracle backends. Support for Oracle in the web based admin tools will be added in a future release
- The single VOMS RPM has been replaced by smaller RPMS of specific functions (server, apis, config, etc).
- The mysql libraries have been extracted from the VOMS packages and separate glite-security-voms-mysql and glite-security-voms-oracle has been added.
- Added the --configure option to the configuration script. Once the script is executed with the --configure option, it is necessary to run it again with the --start option in order to start the services.
- The variable voms.db.type variable has been added to the system section. The default value is mysql, though in a future it could also be oracle.
- The variable voms.db.mysql.library with default value `${GLITE_LOCATION}/lib/libvomsmysql.so` has been added to specify which mysql library should be loaded.
- R-GMA Service Publisher parameters updated to use new common conventions (please make sure you use the new configuration templates)
- Bug fixes

### 3. RELEASE CONTENTS

The gLite VOMS Server and Administration Tools v. 2.0.0 is composed of the following gLite components:

Component name	Description	Ver	File
		sio	
		n	
glite-config	gLite configuration scripts	1.2.	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-config-1.2.1-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-config-1.2.1-1.noarch.rpm</a>
org.glite.rgma-api-java	Java API for	4.1.	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/r">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/r</a>

	R.GMA	5	<a href="http://hel30.noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm">hel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm</a>
org.glite.rgma-base	R.GMA basic configuration and documentation	4.1.19	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm</a>
org.glite.rgma-common.config	gLite rgma common configuration items installation	5.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.0-1.noarch.rpm</a>
org.glite.rgma-servicetool	R.GMA service tool	4.1.19	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-4.1.19-3.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-4.1.19-3.noarch.rpm</a>
org.glite.rgma-servicetool-config	gLite R.GMA servicetool installation	5.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-config-5.0.0-1.noarch.rpm</a>
org.glite.rgma-stubs-servlet-java	Java client implementation stubs for R.GMA	4.1.12	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-4.1.12-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-4.1.12-1.noarch.rpm</a>
org.glite.security.trustmanager	The java certificate path checkin for proxy certs in SSL with plugins for tomcat and axis.	1.7.3	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.7.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.7.3-1.noarch.rpm</a>
org.glite.security-util.java	The java utilities library for security	1.1.2	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-util-java-1.1.2-2.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-util-java-1.1.2-2.noarch.rpm</a>
org.glite.security-utils.config	gLite Security Utilities configuration	1.0.2	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.0.2-2.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.0.2-2.noarch.rpm</a>

---

	files			
org.glite.security-voms-	gLite VOMS	1.0.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-voms-admin-client-1.0.7-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-voms-admin-client-1.0.7-1.noarch.rpm</a>
admin.client	Administration	7		
	clients			
org.glite.security-voms-	gLite VOMS	1.0.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-voms-admin-interface-1.0.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-voms-admin-interface-1.0.2-1.noarch.rpm</a>
admin.interface	Administration	2		
	service			
	(interface)			
org.glite.security-voms-	gLite VOMS	1.1.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-voms-admin-server-1.1.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-security-voms-admin-server-1.1.2-1.noarch.rpm</a>
admin.server	Administration	2		
	service			
org.glite.security-		1.5.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-api-1.5.9-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-api-1.5.9-0.i386.rpm</a>
voms.api		9		
org.glite.security-voms-		1.5.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-api-c-1.5.9-2.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-api-c-1.5.9-2.i386.rpm</a>
api.c		9		
org.glite.security-voms-		1.5.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-api-cpp-1.5.9-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-api-cpp-1.5.9-0.i386.rpm</a>
api.cpp		9		
org.glite.security-		1.5.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-clients-1.5.9-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-clients-1.5.9-0.i386.rpm</a>
voms.clients		9		
org.glite.security-		1.5.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-config-1.5.9-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-config-1.5.9-0.i386.rpm</a>
voms.config		9		
org.glite.security-		1.0.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-mysql-1.0.3-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-mysql-1.0.3-0.i386.rpm</a>
voms.mysql		3		
org.glite.security-		1.5.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-server-1.5.9-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-security-voms-server-1.5.9-0.i386.rpm</a>
voms.server		9		
org.glite.voms-	gLite VOMS	2.0.		<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-voms-server-config-2.0.0-3.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-voms-server-config-2.0.0-3.noarch.rpm</a>
server.config	Server and	0		
	Admin Tools			

node  
configuration  
files

## 4. DEPENDENCIES

The gLite Computing Element module has the following dependencies:

Component name	Version	RPM file name
GPT	VDT 1.2.2	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.i386.rpm</a>
VDT Globus Essentials	VDT 1.2.2	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.2rh9-1.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.2rh9-1.i386.rpm</a>
MySQL-server	4.1.11	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-server-4.1.11-0.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-server-4.1.11-0.i386.rpm</a>
MySQL-client	4.1.11	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-client-4.1.11-0.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-client-4.1.11-0.i386.rpm</a>
perl-Crypt-SSLeay	0.51	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Crypt-SSLeay-0.51-4.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Crypt-SSLeay-0.51-4.i386.rpm</a>
perl-Authen-SASL	2.08	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Authen-SASL-2.08-1.1.el3.rf.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Authen-SASL-2.08-1.1.el3.rf.noarch.rpm</a>
perl-Digest-HMAC	1.01	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-HMAC-1.01-11.1.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-HMAC-1.01-11.1.noarch.rpm</a>
perl-Digest-SHA1	2.01	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-SHA1-2.01-15.1.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-SHA1-2.01-15.1.i386.rpm</a>
perl-MIME-Lite	2.117	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-MIME-Lite-2.117-2.1.el3.rf.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-MIME-Lite-2.117-2.1.el3.rf.noarch.rpm</a>
perl-Net-Jabber	2.0	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-Jabber-2.0-1.1.el3.rf.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-Jabber-2.0-1.1.el3.rf.noarch.rpm</a>
perl-Net-XMLPP	1.0	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-XMLPP-1.0-1.1.el3.rf.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-XMLPP-1.0-1.1.el3.rf.noarch.rpm</a>
perl-SOAP-Lite	0.60a	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-SOAP-Lite-0.60a-1.1.el3.rf.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-SOAP-Lite-0.60a-1.1.el3.rf.noarch.rpm</a>
perl-XML-Stream	1.22	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-XML-Stream-1.22-1.1.el3.rf.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-XML-Stream-1.22-1.1.el3.rf.noarch.rpm</a>
Tomcat5	5.0.28	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/tomcat5-5.0.28-9_EGEE.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/tomcat5-5.0.28-9_EGEE.noarch.rpm</a>
Java SDK/JRE	1.4.2	<a href="http://java.sun.com/j2se/1.4.2/download.html">http://java.sun.com/j2se/1.4.2/download.html</a>

## 5. KNOWN BUGS AND ISSUES

This release has the following bugs and issues. Bug numbers refer to the gLite Bug Tracking system database hosted on the CERN Savannah system at <https://savannah.cern.ch/bugs/?group=jra1mdw>.

- VOMS Admin outputs internal database inconsistency faults on getGridmapUsers under certain conditions whereby a user is registered with the same certificate subject, but on a CA with a new key. The problem is due to a faulty SQL query. A fix has been produced, but it will be released in VOMS Admin 1.2.0
- The VOMS Admin Server RPM tries to execute some configuration scripts that may output warnings in certain conditions. The messages can be ignored, since configuration is handled by the configuration scripts as explained in the gLite Installation Guide.

- It is not possible to update the values of a VO once it has been created.
- No removal procedure is provided with this release apart from the removal of the RPMS. Any account, group or other resource created during the module configuration must be manually cleaned.

## Known open bugs:

Bug number	Description
#3739	VOMS registration error
#3887	VOMS and user name assignment
#4119	[VOMS] The VO user policy/licensing is not shown perhaps not installed
#4637	VOMS API should offer a simpler way of processing the VOMS attribute certs
#7193	[VOMS Admin] The mechanism for getting notification addresses for admin users does not work
#7634	VOMS ldap synch and signing policies
#7660	hard-wired defaults in voms_install_db
#7662	references to EDG license in voms
#7663	edg licence in voms-admin
#8295	Welcome to VOMS! doesn't tell you the VO name
#8508	overview: voms deployment scripts drop all VO members on a rerun
#8531	Problem to start the VOMS server - conflict with detected DB version
#8535	error during glite voms configuration
#8543	VOMS install script tries to alter the database password and fails the script on it
#8544	VOMS install
#8573	voms-proxy-init problem..( or voms installation problme?)

- #8582 voms webui: Couldn't find the configuration file.
- #8603 VOMS (core) service can't restart after crash when log file is at 2GB.
- #9028 Error in the configuration script of voms
- #9049 Mail from VOMS refers to edg
- #9077 voms-proxy-init man page should include role syntax
- #9080 Command line tool to list groups and roles
- #9089 VOMS display shows everyone in each group even if empty.
- #9105 VOMS not working with edg-mkgridmap.
- #9151 voms-admin doesn't send notification to admins
- #9168 [VOMS Admin] --fileinstall switch to voms-admin-configure fails
- #9169 [VOMS Admin] Incorrect/inconsistent use of GLITE\_LOCATION\_LOG
- #9170 [VOMS Admin] --fileinstall still requires valid MySQL location
- #9171 [VOMS Admin] Tomcat group check too restrictive
- #9172 [VOMS Admin] Allow for alternate invocation methods for MySQL
- #9173 [VOMS Admin] VOMS must be in gLite location
- #9178 voms/vomrs tomcat5 dies out of memory
- #9218 [VOMS Admin] voms-admin fails with SSL and non-standard certificate dir
- #9302 VOMS-admin Welcome page
- #9339 VOMS Admin: Host cert information is outdated
- #9340 VOMS Admin: Host cert must be easily downloadable from the web interface
- #9408 VOMS Admin spits internal database inconsistency faults on getGridmapUsers
- #9560 [VOMS Admin] Implement user privilege summary page
- #9561 [VOMS Admin] Implement implicit permissions
- #9562 [VOMS Admin] Don't list operations that the user will not be able to execute

- #9576 VOMS fails to verify VOMS server certificate the first time after a VOMS\_Init
- #9577 VOMSValidator throws exception if directory /etc/grid-security/vomsdir/ does not exist
- #9596 voms-proxy-info doesn't validate the signature
- #9602 Maximum life of the VOMS AC should be configurable
- #9603 voms-proxy-init fails with a long VO name
- #9643 voms-proxy-init change of behaviour

Fixed in this or previous releases, but not yet tested:

Bug number	Description
#4540	overview: [VOMS] Can't assign roles to users
#5009	VOMS: making it possible to assign roles more freely
#5166	[VOMS Admin] Couldn't handle the Russian CA issued personal certificates
#5356	unnecessary file org.glite.security.voms/src/include/config.h.in
#5403	org.glite.security.voms-admin-server fails to build
#5495	Can't execute voms-admin-configure because of missing module
#6060	voms_install_db cannot be run properly with MySQL relocated
#6139	Configuration information for the vomses file on the VOMS Admin website is not showing
#6612	voms-admin requires following patch on voms core
#6678	VOMS_Contact() crashes
#7011	glite-voms-server-config DBA password should be optional
#7311	voms build does not use expat.location from the repository
#7511	VOMS_FindByVO() doesn't work without user's local configuration

- #7665 rvoms-admin-configure as pm post install script
- #7890 VOMS attribute validation fails in java VOMS parser
- #7905 Support for GLOBUS\_FLAVORS needed by broker missing in VOMS.
- #7990 The vomses example file is missing from the VOMS Admin installation
- #8012 glite-security-voms-admin-server installed before tomcat user exists.
- #8036 VOMS server upgrade fails due to conflicts
- #8092 Multiple "/opt/glite/var/etc/voms-admin/<VO name>/vomses" file problems
- #8343 voms\_install\_db.sgml problem
- #8357 org.glite.security.voms/src/configure.in bug when checking for GLOBUS\_FLAVORS  
Errors in the glite-voms-server.cfg.xml file
- #8605
- #8641 problem with user creation through glite voms-admin
- #8706 VOMSLDAP.pm is in both voms-admin-client and voms-admin-server packages
- #8750 VOMS Server uses a blocking socket
- #8756 VOMS install script fails on XML parsing of the .cfg.xml file
- #8869 [VOMS Admin] Multiple vomsd configuration problems in voms-admin-configure
- #8870 [VOMS Admin] The admin service fails to work with VOMS 1.5.x.

## 6. BUGS CLOSED SINCE LAST RELEASE

This release fixes the following bugs and issues. Bug numbers refer to the gLite Bug Tracking system database hosted on the CERN Savannah system at <https://savannah.cern.ch/bugs/?group=jralmdw>

Bug number	Description
#4122	overview: [VOMS] In the request detail the E-Mail address =<null>



- #4484 Can't setup a VOMS server with a VO name longer then six characters
- #5561 [VOMS Admin] Couldn't send e-mail for the registration request
- #6428 VOMS lock files are going into the wrong place
- #6930 VOMS & VOMS Admin services should publish to the Service table
- #7243 Access denied error on GLOBAL ACL section of VOMS Admin
- #7450 glite-voms-server-config.py ignore the JAVA\_HOME definition of the configuration .xml file
- #7453 glite-voms-server-config.py dies with unknown error
- #7445 glite-voms-server-config.py -h -v -c gives error (v1.0.10)
- #7628 voms installer has references to CE
- #7636 voms configuration script fails
- #7637 voms script fails with an IndexError
- #7638 many parameters in the voms server configuration are cryptic
- #7658 voms-server configuration script does not add vo administrators
- #7696 voms-admin request details not complete
- #7762 glite-voms-server-config.py fails
- #7986 Unreplaced tokens in VOMS Admin web interface
- #7989 VOMS Admin confirmation messages display (null) instead of VO name
- #8006 voms-admin-server and role attribute
- #8026 VOMS cannot accept proxy for authentication
- #8679 Can't create a proxy certificate with voms-proxy-init
- #8799 list voms users with glite-security-mkgridmap-2.1.1-1
- #8868 [VOMS Admin] Subgroup creation is not possible on the web interface
- #8981 glite-voms-server.cfg.xml is not valid XML file

- #8988      glite-security-voms-api-c unnecessary dependency on MySQL
- #8991      voms-api-c does not install under /opt/glite
- #9041      Error in the configuration script of voms
- #9085      VOMS display shows everyone in each group even if empty.
- #9129      VOMS test script isn't in the release
- #9145      VOMS - Internal database inconsistency detected: Request no. 6 has an invalid type
- #9150      voms-admin contains all VO user in the VO-Admin Role
- #9305      Registration of new VO members fail with database errors
- #9515      voms-proxy-init error