

GLITE VOMS SERVER AND ADMINISTRATION TOOLS (MYSQL)

1. RELEASE DESCRIPTION

This release contains the MySQL version of the gLite VOMS Server and Administration Tools module v. 2.2.0. The following sections provide additional information about the release content, the module dependencies, the know 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

2.1. CHANGES IN FUNCTIONALITY

- [TBA: waiting for developers' release notes]
- Use new VO configuration model

2.2. CHANGES IN CONFIGURATION

The configuration of the module has changed. Please update your configuration if you upgrade from a previous version of the VOMS server.

2.2.1. New configuration parameters

The following new parameters have been added to the glite-voms-server.cfg.xml file:

Parameter name	Default value	Description
set.mysql.root.password	false	If this parameter is true, then the root password of the mysql database is set to the value specified in mysql.root.password if it not yet set. This parameter has no effect if the database root password is already set. It can be used to ease automated installation and configuration of the service, if mysql is not managed in some other way
voms.db.mysql.maxConnections	500	The number of simultaneous client connections allowed. Increasing this value increases the number of file descriptors that mysqld requires. [Example: 500] [Type: integer]

All parameters used to set VO-specific values have been removed from the service configuration files and moved to a dedicated VO configuration file called vo-list.cfg.xml. A template is available in /opt/glite/etc/config/templates. This file is common to all gLite services running on this node or referenced in the same site-config file (unless locally overridden). For more information please refer to

the gLite 1.5 installation guide. The VOMS instances are generated from an iteration on all the VOs defined in the vo-list.cfg.xml file.

The R-GMA Service Publisher (aka R-GMA servicetool) parameters are now automatically handled by the configuration script and do not need to be explicitly set anymore in the configuration file. The parameters can be set in the configuration file to override the default values.

3. RELEASE CONTENTS

3.1. GLITE SUB-DEPLOYMENT MODULES

The gLite VOMS Server (MySQL) module installs/uses the following set of gLite deployment modules:

- glite-voms-server-mysql
- glite-rgma-servicetool
- glite-security-utils

Please see the corresponding release notes of these modules for details.

3.2. GLITE RPMS

The gLite VOMS Server MySQL module is composed of the following gLite components (list doesn't include the gLite components of the other gLite submodules listed in section 3.1):

Component name	Description	Version	File name
glite-config	gLite configuration scripts	1.6.22	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-config-1.6.22-2.noarch.rpm
glite-rgma-servicetool-config	gLite R-GMA servicetool installation	5.2.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-config-5.2.2-1.noarch.rpm
glite-security-trustmanager	The java certificate path checkin for proxy certs in SSL with plugins for tomcat and axis.	1.8.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.8.2-1.noarch.rpm
glite-security-util-java	The java utilities library for security	1.3.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-util-java-1.3.0-1.noarch.rpm
glite-security-utils-config	gLite Security Utilities configuration files	1.2.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.2.1-1.noarch.rpm
glite-security-voms-admin-client	gLite VOMS Administration clients	1.2.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-voms-admin-client-1.2.10-1.noarch.rpm
glite-security-voms-admin-interface	gLite VOMS Administration service (interface)	1.0.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-voms-admin-interface-1.0.2-1.noarch.rpm
glite-security-voms-admin-server	gLite VOMS Administration service	1.2.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-voms-admin-server-1.2.10-1.noarch.rpm
glite-security-voms-api		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-api-1.6.10-0.i386.rpm
glite-security-voms-api-c		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-api-c-1.6.10-0.i386.rpm
glite-security-voms-api-cpp		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-api-cpp-1.6.10-0.i386.rpm

			0.i386.rpm
glite-security-voms-clients		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-clients-1.6.10-0.i386.rpm
glite-security-voms-config		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-config-1.6.10-0.i386.rpm
glite-security-voms-mysql		1.1.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-mysql-1.1.2-0.i386.rpm
glite-security-voms-server		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-server-1.6.10-0.i386.rpm
glite-voms-server-mysql-config	gLite VOMS Server for MySQL installation files	2.2.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-voms-server-mysql-config-2.1.2-1.noarch.rpm

4. DEPENDENCIES

The gLite VOMS Server for MySQL module has the following dependencies:

Component name	Description	Version	File name
MySQL-client	MySQL - Client	4.1.11	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-client-4.1.11-0.i386.rpm
MySQL-server	MySQL	4.1.11	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-server-4.1.11-0.i386.rpm
gpt	The Grid Packaging Toolkit (GPT)	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.i386.rpm
perl-Authen-SASL	Interface to SASL	2.08	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Authen-SASL-2.08-1.1.el3.rf.noarch.rpm
perl-Crypt-SSLeay	Crypt	0.51	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Crypt-SSLeay-0.51-4.i386.rpm
perl-Digest-HMAC	Digest-HMAC Perl module	1.01	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-HMAC-1.01-11.1.noarch.rpm
perl-Digest-SHA1	Digest-SHA1 Perl module	2.01	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-SHA1-2.01-15.1.i386.rpm
perl-MIME-Lite	Simple standalone module for generating MIME messages	2.117	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-MIME-Lite-2.117-2.1.el3.rf.noarch.rpm
perl-Net-Jabber	Jabber protocol interface	2.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-Jabber-2.0-1.1.el3.rf.noarch.rpm
perl-Net-XMPP	XMPP Perl Library	1.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-XMPP-1.0-1.1.el3.rf.noarch.rpm
perl-SOAP-Lite	Interface to SOAP	0.60a	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-SOAP-Lite-0.60a-1.1.el3.rf.noarch.rpm
perl-XML-Stream	XML Stream connection support	1.22	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-XML-Stream-1.22-1.1.el3.rf.noarch.rpm
tomcat5	Tomcat application server	5.0.28	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/tomcat5-5.0.28-11_EGEE.noarch.rpm
vdt_globus_essentials	Virtual Data Toolkit	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.2rh9-1.i386.rpm

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 application update for a VO is not possible. voms-admin-configure doesn't allow the possibility to update parameters of a VO (e.g. the port) once the VO has been created. For the moment the only possibility is to remove a VO, change the values and create it again.
- VOMS Admin fails to boot and locks down the Tomcat instance. For some reason VOMS Admin 1.2.10 sometimes gets stuck in the boot process, while starting up the request scheduler. If this happens, the failed VOMS Admin instance locks down the entire Tomcat process, which is a critical issue as it prevents other services in the same process from working.
- BLOB handling is broken in VOMS Admin.
- Very bad tomcat performance affecting voms/vomrs access and gridmap file generation due to issues in VOMS Admin

5.1. KNOWN OPEN BUGS

Bug number	Description
#7164	glite-voms-init still uses deprecated -hours option
#7634	VOMS ldap synch and signing policies
#7662	references to EDG license in voms
#7663	edg licence in voms-admin
#8021	VOMS test script doesn't tell you the progress when in the mass voms-proxy-* fase.
#8582	voms webui: Couldn't find the configuration file.
#9089	Problems assigning VOMS roles
#9151	voms-admin doesn't send notification to admins
#9173	[VOMS Admin] VOMS must be in gLite location
#9178	voms/vomrs tomcat5 dies out of memory
#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
#9560	[VOMS Admin] Implement user privilege summary page
#9562	[VOMS Admin] Don't list operations that the user will not be able to execute
#9577	VOMSValidator throws exception if directory /etc/grid-security/vomsdir/ does not exist
#10037	VOMS Admin needs to have a maillinglist functionality
#10050	VOMS installation does not allow to install from an existing VOMS setup
#10072	no tool to migrate VOMS db content from MySQL to Oracle
#10296	[VOMS]certificate registration command does not pick up CA URI
#10386	voms-admin-configure prints out wrong mysql port in help
#10399	glite-mkgridmap truncates gridmap file, when VOMS server is down
#10431	VOMS admin and VOMS need to be harmonized
#10433	voms-admin-configure help is incorrect
#10434	voms server update for a vo not possible
#10702	VOMS connecting to database twice
#10729	VOMS API should return clean FQAN
#10761	[VOMS] Empty error message when doing vom-proxy-init with invalid line in vomses-file
#10785	[VOMS] missing implicit permissions on VOMS admin interface
#10846	[VOMS] Must specify alternate port and socket for MySQL
#10927	[VOMS Admin] problems with the removeMember SOAP method
#10970	VOMS Admin: getGridmapUsers function doesn't work because of endless wait for a DB

	connection	
#11222	[VOMS] gLite autoconf checks use underscore instead of dash	
#11223	[VOMS] configure checks for MySQL in incorrect sequence	
#11227	[VOMS] VOMS 1.6.7 fails to build on RedHat 7.2	
#12168	[VOMS Admin] Doesn't work well with an empty DBA password	
#12197	No real user guide for VOMS	
#12223	glite-voms-server-configure.py doesn't configure /opt/glite/etc/voms/[VOname]	
#12224	/opt/glite/etc/voms/[VOname]/voms.conf files are created with the wrong dbname	
#12513	voms client man pages still refer to edg	
#12613	VOMS reconnects to the Oracle database for each SQL query	
#13356	[VOMS] init script uses bad ps command	
#13370	[VOMS] VOMS Oracle server is not started when oracle clients RPMs are missing	
#13592	[VOMS admin] Error when displaying the list of all VO requests	
#13627	[VOMS Admin] Menu fails to display options	
#13659	org.glite.security.voms needs PIC in order to build on IA64	
#13675	voms-proxy-init doesn't complain about wrong parameters or junk in the command line, just silently fails	
#13684	VOMS Admin Incorrect copyright notice	
#13726	VOMS does not put all the groups the user has into the AC	
#13730	java voms parser swallows the the VO root group from the voms AC	
#13851	[VOMS] voms-proxy-init runs only once on RHEL3/AMD64	
#13863	VOMS Admin fails to boot and locks down the Tomcat instance	
#13866	LCAS voms plugin should check that first voms fqan in proxy is authorized	
#13867	voms shall use pure SSL	
#13888	VOMS Admin: Internal database inconsistency detected: Got more roles than expected for user "<my DN>"	
#13891	VOMS Admin rejects numerical configuration parameters with extra whitespace appended	
#14009	[VOMS] not all groups are returned	
#14021	BLOB handling is still broken in VOMS Admin.	
#14026	VOMS clients to be configured with the trusted certificate subjects, not the whole certificate	
#14057	very bad tomcat performance affecting voms/vomrs access and gridmap file generation	
#14193	[VOMS Admin] grid-mapfile generation doesn't work	
#14195	[VOMS Admin] "List all VOs on this server" link doesn't work	
#14207	JobRepository: Without VOMS, no Unix UID and Unix GID bindings were logged	
#14227	[VOMS Admin] Incorrect use of VOMS_LOCATION and VOMS_LOCATION_VAR	
#14393	ClassCastException in VomsServicePDP	
#14399	VOMS Admin: Tomcat signals Out Of Memory messages, all VOMS Admin instances are non-functional	

5.2. FIXED IN THIS OR PREVIOUS RELEASES, BUT NOT YET FULLY TESTED

Bug number	Description	
#4119	[VOMS] The VO user policy/licensing is not shown perhaps not installed	
#4540	[VOMS] Can't assign roles to users	
#4637	VOMS API should offer a simpler way of processing the VOMS attribute certs	
#5166	[VOMS Admin] Couldn't handle the Russian CA issued personal certificates	
#5360	edg-voms creates logfile with exotic mode	
#5362	edg-voms run as a non-privileged user	
#6678	VOMS_Contact() crashes	
#6943	If the user issuing voms-proxy-init is not a member of the specified VO, confusing error is returned.	

#7047	VOMS_Retrieve() segfaults if VERIFY_DATE is set and the proxy has expired	
#7048	VOMS: there is no easy way for an application to retrieve the info from the proxy cert	
#7311	voms build does not use expat.location from the repository	
#7511	VOMS_FindByVO() doesn't work without user's local configuration	
#7660	hard-wired defaults in voms_install_db	
#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.	
#8012	glite-security-voms-admin-server installed before tomcat user exists.	
#8295	Welcome to VOMS! doesn't tell you the VO name	
#8357	org.glite.security.voms/src/configure.in bug when checking for GLOBUS_FLAVORS	
#8603	VOMS (core) service can't restart after crash when log file is at 2GB.	
#8867	memory leak in lcms voms group plugins	
#9168	[VOMS Admin] --fileinstall switch to voms-admin-configure fails	
#9170	[VOMS Admin] --fileinstall still requires valid MySQL location	
#9408	VOMS Admin spits internal database inconsistency faults on getGridmapUsers	
#9799	[VOMS] The edg-voms process loops on accept() when the port number is unavailable	
#9800	[VOMS] The edg-voms process truncates the log file on startup	
#10025	VOMS: voms-server-conf.py error	
#10069	VOMS administration webservice removes user from VO instead of group	
#10253	VOMS (core) service rejects connection because of not able to write to logfile	
#10313	VOMS new user - invalid email	
#10422	VOMS client lib./MyProxy: Globus deallocation problem	
#10432	voms_install_db has no help function	
#10459	glite-security-voms-oracle should not depend on oracle rpms	
#10581	VOMS: problems compiling on debian	
#10678	[VOMS]glite-voms-server-config.py fails with several switches	
#10680	Implement a workaround for wrong DN in VOMS ACs	
#10682	Man pages missing from separate voms rpms	
#10805	[VOMS] Failed checks for Expat in configure	
#10894	VOMS server puts a wrong DN into the AC holder field	

5.3. 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	
#3887	VOMS and user name assignment	
#5356	unecessary file org.glite.security.voms/src/include/config.h.in	
#5357	ambiguous error message in edg-voms	
#6612	voms-admin requires following patch on voms core	
#7193	[VOMS Admin] The mechanism for getting notification addresses for admin users does not work	
#8036	VOMS server upgrade fails due to conflicts	
#9049	Mail from VOMS refers to edg	
#9077	voms-proxy-init man page should include role syntax	
#9171	[VOMS Admin] Tomcat group check too restrictive	
#9172	[VOMS Admin] Allow for alternate invocation methods for MySQL	
#9218	[VOMS Admin] voms-admin fails with SSL and non-standard certificate dir	
#9576	VOMS fails to verify VOMS server certificate the first time after a VOMS_Init	
#9795	VOMS deployment script downloads old CA certs version	

#9804	VOMS deploy script: no check on empty parameters	
#10051	VOMS installation doesn't allow to enter a SMTP host in the XML file anymore	
#10163	No way to have voms core restarting after machine reboot	
#10363	voms-admin script sets file permissions incorrectly	
#10383	voms-admin-install handles command line options incorrectly	
#10423	[VOMS] glite-voms-server.cfg.xml should offer to specify authentication params for smtp	
#10728	Java VOMS class should return clean FQAN	
#10813	[VOMS] Oracle Error on confirm registration request	
#10827	voms-proxy-init crashes because of proxy-format error	
#10839	VOMS: 4Suite, CA list., perl-libxml, rgma-servicetool-config and other missing dependencies	
#11092	[VOMS] KCA-signed certificates not handled properly	
#11464	VOMS (core) fails on getting host cert through X509_USER_[KEY CERT]	
#11513	VOMS Admin: Missing slash when adding a user to a (sub)group with a role	
#12150	[VOMS] Problems when starting the service	
#12166	[VOMS Admin] Fails to support non-standard MySQL ports	
#12167	[VOMS Admin] Uses old name of MySQL driver class	
#12169	[VOMS Admin] New options incorrectly specified	
#12170	[VOMS Admin] voms-admin-configure POD gives incorrect default MySQL port	
#12632	malloc/free errors in VOMS C/C++ api	
#14275	[VOMS Admin] The Request Handling menu is invisible	