

## GLITE R-GMA CLIENT

### 1. RELEASE DESCRIPTION

This release contains the gLite R-GMA Client module v. 5.2.0. 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 R-GMA Client, please refer to the gLite Installation and User Guides.

### 2. CHANGES IN THIS RELEASE

#### 2.1. CHANGES IN FUNCTIONALITY

In this release of the R-GMA Server and Client, registry replication is not supported. Although it is possible to have multiple registries in the configuration, the client has been modified to output a warning and use only the first configured registry.

#### 2.2. CHANGES IN CONFIGURATION

There are no changes in configuration in this release.

### 3. RELEASE CONTENTS

#### 3.1. GLITE SUB-DEPLOYMENT MODULES

The gLite R-GMA Client module installs/uses the following additional set of gLite deployment modules:

- glite-security-utils

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

#### 3.2. GLITE RPMS

The gLite R-GMA Client module is composed of the following gLite components (list includes the gLite components of the other used gLite deployment modules listed in section 3.1):

Component name	Description	Version	File
glite-config	gLite configuration scripts	1.6.22	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-config-1.6.22-2.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-config-1.6.22-2.noarch.rpm</a>
glite-essentials-cpp	Essential C/C++ libraries for gLite software	1.1.1	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.noarch.rpm</a>
glite-essentials-java	Set of JAVA libraries essential for gLite middleware	1.2.0	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-essentials-java-1.2.0-2_EGEE.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-essentials-java-1.2.0-2_EGEE.noarch.rpm</a>
glite-rgma-api-c	C API for R-GMA	5.0.5	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-c-5.0.5-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-c-5.0.5-1.noarch.rpm</a>
glite-rgma-api-cpp	C++ API for R-GMA	5.0.9	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-cpp-5.0.9-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-cpp-5.0.9-1.noarch.rpm</a>
glite-rgma-api-java	Java API for R-GMA	5.0.3	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-java-5.0.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-java-5.0.3-1.noarch.rpm</a>
glite-rgma-api-python	Python API for R-GMA	5.0.3	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-python-5.0.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-python-5.0.3-1.noarch.rpm</a>
glite-rgma-base	R-GMA basic	5.0.4	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30</a>

	configuration and documentation		<a href="#">/noarch/RPMS/glite-rgma-base-5.0.4-1.noarch.rpm</a>
glite-rgma-client-config	gLite R-GMA Client configuration files	5.2.0	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.2.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.2.0-1.noarch.rpm</a>
glite-rgma-command-line	R-GMA command line	5.0.2	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-command-line-5.0.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-command-line-5.0.2-1.noarch.rpm</a>
glite-rgma-common-config	gLite rgma common configuration items installation	5.0.1	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.1-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.1-1.noarch.rpm</a>
glite-rgma-log4cpp	log4cpp appender for R-GMA	5.0.3	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-log4cpp-5.0.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-log4cpp-5.0.3-1.noarch.rpm</a>
glite-rgma-log4j	R-GMA log4j tool	5.0.2	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-log4j-5.0.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-log4j-5.0.2-1.noarch.rpm</a>
glite-rgma-stubs-servlet-java	Java client implementation stubs for R-GMA	5.0.3	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-5.0.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-5.0.3-1.noarch.rpm</a>
glite-security-trustmanager	The java certificate path checkin for proxy certs in SSL with plugins for tomcat and axis.	1.8.2	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.8.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.8.2-1.noarch.rpm</a>
glite-security-util-java	The java utilities library for security	1.3.0	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-util-java-1.3.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-util-java-1.3.0-1.noarch.rpm</a>
glite-security-utils-config	gLite Security Utilities configuration files	1.2.2	<a href="http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.2.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.2.2-1.noarch.rpm</a>

## 4. DEPENDENCIES

The gLite R-GMA Client module has the following dependencies:

Component name	Description	Version	File
j2re	Java JRE	1.4.2	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/j2re-1_4_2_08-linux-i586.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/j2re-1_4_2_08-linux-i586.rpm</a>
swig-runtime	swig-runtime	1.3.21	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/swig-runtime-1.3.21-1_EGEE.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/swig-runtime-1.3.21-1_EGEE.noarch.rpm</a>

For the list of dependencies of the gLite sub-deployment modules, listed in section 3.1, please see the release notes of the corresponding modules for their list of dependencies.

## 5. KNOWN BUGS AND ISSUES

This release has the following known 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>.

There are no open critical issues for the R-GMA Client.

### 5.1. KNOWN OPEN BUGS

Bug number	Description	
#6977	Printable version of the APIs would be nice	
#7225	All client interactions should go via the local servlet box	

#7226	rgma client configuration succeeds, but a client test fails	
#7276	Bad error message for expired proxy	
#7399	API errors with expired proxy	
#12731	Registry API attempts a lookup if only 1 registry exists	
#13545	Errors in the System API	
#14078	always build PIC code in org.glite.rgma.api-cpp	
#14296	Tools need separate security configuration	
#14340	rgma-client-check does not pass X509_CERT_DIR to the Java executable	
#14346	rgma-server-check does not check if hostkey file can be read	

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

Bug number	Description	
#6495	insert does not check the column name	
#6498	Error message could be more helpful	
#6501	Range checking on the date stamp leaves something to be desired	
#6511	Syntax checking could be better	
#6568	Could log commands to a file	
#7283	Inserting '\s	
#7452	Inconsistent use of stdout and stderr in java API	
#7487	the rgma client and it does not use the X509_CERT_DIR to look for the certificates of the CAs	
#7543	Add a comment "command"?	
#7644	Need explanation of how to get info out of result sets	
#8457	R-GMA does not remove illegal XML characters	
#8992	browser failed to update column definitions	
#9109	API is missing a "show tables" equivalent	
#9303	C API fails with HTTP protocol error in some circumstances.	
#9406	The rgma python api RPM does not clean up after itself	
#9606	Python RGMA exception incorrectly mapped when using reconnect() method	
#9665	Cpp API makes a new connection for each server call resulting in slow performance	
#9744	fatal error reported by java api when in insecure mode	
#10036	R-GMA API has functions which need to be modified or removed	
#10048	Python API socket leak	
#10109	Flexy uses old API and is not flexible	
#10171	Would like str() to provide the state of an object using the Python API	
#10182	All Exceptions in Python API are mapped to RGMAException	

#10511	User guides should contain more advice	
#12445	C++ API crashes when connecting to insecure services.	
#12539	Command line tool still uses isEndOfResults()	
#12563	setLoggingLevel can't set individual class levels	
#12564	SiteFilter allows a host if its URL is malformed	
#12575	C++ API documentation not complete	
#12600	Registry API fails to throw RGMAUnknownRegistryEntryException	
#12604	C++ API doesn't handle Tomcat shutting a secure connection	
#12607	Broken links in API documentation.	
#12608	Javadoc errors in Java API.	
#12641	R-GMA C++ API Chunking problem on large datasets	
#12645	NULL mediator warning on empty result set in C API	
#12654	Flag to determine end of result set is wrongly configured	
#13312	rgma-client-check conflict between base and system-tests module	
#13431	ia64 not in BuildArch for rgma rpms	
#13480	Not-yet-implemented functions don't throw not-yet-implemented exception.	
#13491	Missing ServiceStatusDetails property	
#13511	Inconsistent use of X509-USER_PROXY and TRUSTFILE env vars	
#13596	Reassigned item: rgma-client-check does not respect \$X509_CERT_DIR	
#13787	C++ SSL read failed with status of 6 SSL_ERROR_ZERO_RETURN	
#13824	rgma-server.conf should not be distributed with the glite-rgma-server-servlet rpm	

### 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=jra1mdw>

Bug number	Description	
#5411	<a href="http://hepunix.rl.ac.uk/egee/jra1-uk/glite/index.html">http://hepunix.rl.ac.uk/egee/jra1-uk/glite/index.html</a> has various errors	
#6481	Bad error message from show	
#7018	Manuals should mention case-sensitivity issues	
#7218	Finding the configured registry and schema	
#7398	C API check fails with centos?	
#7838	Spell checkers are good!	
#7916	"glite-rgma-client_installer.sh if -n \$basedir; then"	
#8548	R1/LCG Java API doesn't work with Java 1.5	
#9395	Registry API causes deadlock	
#9405	The rgma command line tool sets its PYTHONPATH incorrectly	