

## GLITE R-GMA CLIENT

### 1. RELEASE DESCRIPTION

This release contains the gLite R-GMA Client module v. 5.1.0. 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

There are no changes in functionality in this release.

#### 2.2. CHANGES IN CONFIGURATION

There are no changes in configuration in this release.

#### 2.3. BUG FIXES

This release introduces a set of bug fixes (for the full list of fixed bugs see sections 5.2 and 5.3):

- org.glite.rgma.api-c
  - Bug #10030 Allow cleanup predicate to be set on archiver for use by Python
- org.glite.rgma.api-cpp
  - Bug #10048 Close socket if we get connection refused
- org.glite.rgma.api-python
  - Bug #10030 Set cleanup predicate for secondary producer
- org.glite.rgma.stubs-servlet-java
  - Bug #9792 Changed APIBase to return correct message on "object closed" - used to return "API closed".
  - Bug #9744 Security set-up now only attempted on first connection to HTTPS.

### 3. RELEASE CONTENTS

#### 3.1. GLITE SUB-DEPLOYMENT MODULES

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

- glite-rgma-client
- 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	1.4.5	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-config-1.4.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-config-1.4.2-1.noarch.rpm</a>
glite-rgma-api-c	C API for R-GMA	4.1.13	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20">http://glite.web.cern.ch/glite/packages/R1.4/R20</a>

			<a href="http://050916/bin/rhel30/i386/RPMS/glite-rgma-api-c-4.1.13-1.i386.rpm">050916/bin/rhel30/i386/RPMS/glite-rgma-api-c-4.1.13-1.i386.rpm</a>
glite-rgma-api-cpp	C++ API for R-GMA	4.1.15	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-api-cpp-4.1.15-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-api-cpp-4.1.15-1.i386.rpm</a>
glite-rgma-api-java	Java API for R-GMA	4.1.5	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm</a>
glite-rgma-api-python	Python API for R-GMA	4.1.15	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-api-python-4.1.15-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-api-python-4.1.15-1.i386.rpm</a>
glite-rgma-base	R-GMA basic configuration and documentation	4.1.19	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm</a>
glite-rgma-client-config	gLite R-GMA client installation	5.1.0	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.1.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.1.0-1.noarch.rpm</a>
glite-rgma-command-line	R-GMA command line	4.1.13	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-command-line-4.1.13-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-command-line-4.1.13-1.noarch.rpm</a>
glite-rgma-common-config	gLite rgma common configuration items installation	5.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.0-1.noarch.rpm</a>
glite-rgma-log4cpp	log4cpp appender for R-GMA	4.1.4	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-log4cpp-4.1.4-0.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-log4cpp-4.1.4-0.i386.rpm</a>
glite-rgma-log4j	R-GMA log4j tool	4.1.5	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-log4j-4.1.5-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-log4j-4.1.5-1.noarch.rpm</a>
glite-rgma-stubs-servlet-java	Java client implementation stubs for R-GMA	4.1.13	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-4.1.13-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-4.1.13-1.noarch.rpm</a>
glite-rgma-system-tests	System tests for R-GMA	4.1.8	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-system-tests-4.1.8-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-system-tests-4.1.8-1.i386.rpm</a>
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/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.7.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.7.3-1.noarch.rpm</a>
glite-security-util-java	The java utilities library for security	1.1.2	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-util-java-1.1.2-2.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-util-java-1.1.2-2.noarch.rpm</a>
glite-security-utils-config	gLite Security Utilities	1.0.4	<a href="http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-">http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-</a>

	configuration files		<a href="#">utils-config-1.0.4-1.noarch.rpm</a>
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## 4. DEPENDENCIES

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

Component name	Version	RPM file name
gLite-essentials-cpp	1.1.1	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gLite-essentials-java-1.1.1-1_EGEE.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gLite-essentials-java-1.1.1-1_EGEE.noarch.rpm</a>
gLite-essentials-java	1.2.0	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gLite-essentials-java-1.2.0-2_EGEE.noarch.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gLite-essentials-java-1.2.0-2_EGEE.noarch.rpm</a>
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.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/swig-runtime-1.3.21-1_EGEE.i386.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=jralmdw>.

### 5.1. KNOWN OPEN BUGS

Bug number	Description
<a href="#">#4284</a>	<a href="#">RGMA: error message for a non existent table is misleading</a>
<a href="#">#4438</a>	<a href="#">R-GMA doesn't check types</a>
<a href="#">#4634</a>	<a href="#">RGMA scripts from EDG still present</a>
<a href="#">#5412</a>	<a href="#">RGMA: No provision for not being port 8080</a>
<a href="#">#5703</a>	<a href="#">case sensitive varchar's when creating an archiver</a>
<a href="#">#6288</a>	<a href="#">HTTP proxy support is inconsistent</a>
<a href="#">#6475</a>	<a href="#">Case sensitivity for table names is problematic</a>
<a href="#">#6479</a>	<a href="#">csv and tsv output has vanished</a>
<a href="#">#6493</a>	<a href="#">Bad case sensitivity for insert</a>
<a href="#">#6495</a>	<a href="#">insert does not check the column name</a>
<a href="#">#6496</a>	<a href="#">Bad/missing error messages with select</a>
<a href="#">#6498</a>	<a href="#">Error message could be more helpful</a>
<a href="#">#6501</a>	<a href="#">Range checking on the date stamp leaves something to be desired</a>
<a href="#">#6510</a>	<a href="#">Case sensitivity depends on query type</a>
<a href="#">#6511</a>	<a href="#">Syntax checking could be better</a>
<a href="#">#6512</a>	<a href="#">More parsing errors</a>
<a href="#">#6514</a>	<a href="#">Case sensitivity error with a secondary producer</a>

<a href="#">#6568</a>	<a href="#">Could log commands to a file</a>
<a href="#">#6935</a>	<a href="#">Install guide mentions RGMA-Server in LTS Section</a>
<a href="#">#6977</a>	<a href="#">Printable version of the APIs would be nice</a>
<a href="#">#7024</a>	<a href="#">Additions to the manuals</a>
<a href="#">#7149</a>	<a href="#">Formatting strings for output</a>
<a href="#">#7188</a>	<a href="#">Bad messages if a port isn't open</a>
<a href="#">#7189</a>	<a href="#">How do you know the primary key?</a>
<a href="#">#7220</a>	<a href="#">Bad error message with ssl error</a>
<a href="#">#7225</a>	<a href="#">All client interactions should go via the local servlet box</a>
<a href="#">#7226</a>	<a href="#">rgma client configuration succeeds, but a client test fails</a>
<a href="#">#7276</a>	<a href="#">Bad error message for expired proxy</a>
<a href="#">#7283</a>	<a href="#">Inserting '\s</a>
<a href="#">#7332</a>	<a href="#">Services such as rgma-servicetool are not services.</a>
<a href="#">#7399</a>	<a href="#">API errors with expired proxy</a>
<a href="#">#7442</a>	<a href="#">Remove redundant tables</a>
<a href="#">#7452</a>	<a href="#">Inconsistent use of stdout and stderr in java API</a>
<a href="#">#7487</a>	<a href="#">the rgma client and it does not use the X509 CERT DIR to look for the certificates of the CAs</a>
<a href="#">#7542</a>	<a href="#">Overriding the rgma.conf</a>
<a href="#">#7543</a>	<a href="#">Add a comment "command"?</a>
<a href="#">#7566</a>	<a href="#">rgma.servicetool parameters</a>
<a href="#">#7574</a>	<a href="#">rgmaservicetool configuration script changeme error</a>
<a href="#">#7575</a>	<a href="#">rgma servicetool configuration script does not exit on error</a>
<a href="#">#7635</a>	<a href="#">Problems with registry configuration</a>
<a href="#">#7644</a>	<a href="#">Need explanation of how to get info out of result sets</a>
<a href="#">#7654</a>	<a href="#">Detection of an error with TRUSTFILE</a>
<a href="#">#7676</a>	<a href="#">Need to find out server limits on parameters</a>
<a href="#">#7704</a>	<a href="#">Publication rate and LRP for site and service publishers should be configurable</a>
<a href="#">#7726</a>	<a href="#">Bad error message in web browser</a>
<a href="#">#8099</a>	<a href="#">Archivers are inconsistent</a>
<a href="#">#8356</a>	<a href="#">Test the service discovery API</a>
<a href="#">#8479</a>	<a href="#">Reassigned item: RGMA crashes on IA64</a>
<a href="#">#8650</a>	<a href="#">R-GMA dies trying to insert a record</a>
<a href="#">#8872</a>	<a href="#">Extra documentation in rgma.registry.hostname for using 2 registries</a>
<a href="#">#8882</a>	<a href="#">Predefined queries on the Browser are linked to the old schema tables</a>
<a href="#">#8992</a>	<a href="#">browser failed to update column definitions</a>
<a href="#">#8993</a>	<a href="#">rgma-server-setup.py sets the replicate attribute to true in rgma-server.conf even though only one registry is being use</a>
<a href="#">#9109</a>	<a href="#">API is missing a "show tables" equivalent</a>
<a href="#">#9272</a>	<a href="#">tomcat log4j warnings</a>
<a href="#">#9375</a>	<a href="#">glite-rgma-server-installer does not create /var/log/glite/rgma-server/rgma-server.log</a>

<a href="#">#9381</a>	<a href="#">NullPointerException in R-GMA StreamProducerServlet</a>
<a href="#">#9384</a>	<a href="#">R-GMA registry is not protected against careless use</a>
<a href="#">#9395</a>	<a href="#">Registry API causes deadlock</a>
<a href="#">#9507</a>	<a href="#">R-GMA BrowserServlet threw exception clicking on endpoint</a>
<a href="#">#9523</a>	<a href="#">StreamProducer doesn't crop VARCHARs to size defined in Schema</a>
<a href="#">#9589</a>	<a href="#">Site publisher needs extra config items</a>
<a href="#">#9665</a>	<a href="#">Cpp API makes a new connection for each server call resulting in slow performance</a>
<a href="#">#9699</a>	<a href="#">ArchiverThread doesn't check column types when inserting.</a>
<a href="#">#9836</a>	<a href="#">Insecure configuration of R-GMA fails</a>
<a href="#">#10066</a>	<a href="#">Reassigned item: Site Archiver</a>
<a href="#">#10171</a>	<a href="#">Would like str() to provide the state of an object using the Python API</a>
<a href="#">#10181</a>	<a href="#">Gin is aborting because of a fatal error</a>
<a href="#">#10182</a>	<a href="#">All Exceptions in Python API are mapped to RGMAException</a>
<a href="#">#10387</a>	<a href="#">Servicetool does not kill hanging status scripts</a>
<a href="#">#10511</a>	<a href="#">User guides should contain more advice</a>
<a href="#">#10555</a>	<a href="#">R-GMA site publisher documentation does not contain new values</a>
<a href="#">#10600</a>	<a href="#">Strings that look like numbers get treated as numbers</a>
<a href="#">#10604</a>	<a href="#">In memory streaming code causes out of bounds exception</a>
<a href="#">#10617</a>	<a href="#">SP deadlock with multiple tables</a>
<a href="#">#10635</a>	<a href="#">R-GMA archiver installation prints error</a>
<a href="#">#10636</a>	<a href="#">R-GMA glue archiver prints error if id file is not there</a>
<a href="#">#10797</a>	<a href="#">glite-rgma-server-config.py --configure fails due to undefined \$GLITE_LOCATION</a>

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

Bug number	Description
<a href="#">#5143</a>	<a href="#">Too many open files using MySQL</a>
<a href="#">#5411</a>	<a href="#">http://hepunx.rl.ac.uk/egee/jra1-uk/glite/index.html has various errors</a>
<a href="#">#5510</a>	<a href="#">need for DB indices for DBProducer in underlying DBMS</a>
<a href="#">#6287</a>	<a href="#">add a predefined query to the browser to query the new log4 table</a>
<a href="#">#6391</a>	<a href="#">Wrong cron.hourly entry</a>
<a href="#">#6481</a>	<a href="#">Bad error message from show</a>
<a href="#">#6990</a>	<a href="#">Manual should refer to RC1 code</a>
<a href="#">#7018</a>	<a href="#">Manuals should mention case-sensitivity issues</a>
<a href="#">#7156</a>	<a href="#">C++ SecondaryProducer example doesn't behave as expected</a>
<a href="#">#7218</a>	<a href="#">Finding the configured registry and schema</a>
<a href="#">#7315</a>	<a href="#">R-GMA Servicetool dumps stack traces to stderr</a>
<a href="#">#7398</a>	<a href="#">C API check fails with centos?</a>
<a href="#">#7449</a>	<a href="#">Bad behaviour with misconfigured registry</a>
<a href="#">#7600</a>	<a href="#">servlet check doesn't spot time sync problem</a>

<a href="#">#7622</a>	<a href="#">Comments on the quickstart web page</a>
<a href="#">#7655</a>	<a href="#">declareTable fails with invalid predicate, but table is still declared</a>
<a href="#">#7664</a>	<a href="#">Bad service names?</a>
<a href="#">#7838</a>	<a href="#">Spell checkers are good!</a>
<a href="#">#8106</a>	<a href="#">Test 12 should not check GlueHost</a>
<a href="#">#8427</a>	<a href="#">rgma-gin problem: "Gin is aborting because of a fatal error"</a>
<a href="#">#8439</a>	<a href="#">Components deadlocks when Registry down and do not resume</a>
<a href="#">#8457</a>	<a href="#">R-GMA does not remove illegal XML characters</a>
<a href="#">#8548</a>	<a href="#">R1/LCG Java API doesn't work with Java 1.5</a>
<a href="#">#8551</a>	<a href="#">Rgma servers should avoid selecting a Registry if one is located locally.</a>
<a href="#">#8552</a>	<a href="#">'Out of Memory' Registries cause rgma system to run very slowly.</a>
<a href="#">#8574</a>	<a href="#">Issuing '\mysql -u root -p &lt; .....\' failed</a>
<a href="#">#8749</a>	<a href="#">createOnDemandProducer calls the CanonicalProducer API incorrectly</a>
<a href="#">#8765</a>	<a href="#">R-GMA server: impossible to change the mysql password via the python scripts</a>
<a href="#">#8811</a>	<a href="#">Pong Servlet initialisation error running in insecure mode</a>
<a href="#">#8812</a>	<a href="#">ServletConnection throws exception in insecure mode</a>
<a href="#">#8898</a>	<a href="#">Flexible archiver init.d script returns ok when it has failed with a RGMAException</a>
<a href="#">#8927</a>	<a href="#">Registry hangs due to slow response from remote producers</a>
<a href="#">#8950</a>	<a href="#">in glite 1.1 having the site configured not to use RGMA, the deployment script fails with RGMA not working</a>
<a href="#">#9195</a>	<a href="#">APEL 3.4.45 Doesn't work with Java 1.5</a>
<a href="#">#9238</a>	<a href="#">Replica Manager thread dies and does not recover</a>
<a href="#">#9303</a>	<a href="#">C API fails with HTTP protocol error in some circumstances.</a>
<a href="#">#9315</a>	<a href="#">R-GMA components don't follow agreed naming convention for service type</a>
<a href="#">#9366</a>	<a href="#">R-GMA gin sends logs partly to console and not to log file</a>
<a href="#">#9405</a>	<a href="#">The rgma command line tool sets its PYTHONPATH incorrectly</a>
<a href="#">#9406</a>	<a href="#">The rgma python api RPM does not clean up after itself</a>
<a href="#">#9539</a>	<a href="#">LatestProducer created by python API has zero min retention period</a>
<a href="#">#9544</a>	<a href="#">Gin publishes tuples regardless of whether they have changed or not</a>
<a href="#">#9606</a>	<a href="#">Python RGMA exception incorrectly mapped when using reconnect() method</a>
<a href="#">#9744</a>	<a href="#">fatal error reported by java api when in insecure mode</a>
<a href="#">#9792</a>	<a href="#">Archiver does not recreate its Consumers when they die</a>
<a href="#">#10030</a>	<a href="#">history retention period for Secondary Producer does not work as expected</a>
<a href="#">#10036</a>	<a href="#">R-GMA API has functions which need to be modified or removed</a>
<a href="#">#10048</a>	<a href="#">Python API socket leak</a>
<a href="#">#10109</a>	<a href="#">Flexy uses old API and is not flexible</a>
<a href="#">#10238</a>	<a href="#">Archiver producer buffer fills up</a>
<a href="#">#10608</a>	<a href="#">Missing TRUSTFILE initialisation for the glue-archiver</a>

### 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
<a href="#">#7916</a>	<a href="#">"glite-rgma-client_installer.sh if -n \$basedir; then"</a>
<a href="#">#8794</a>	<a href="#">ConnectionTimeOutExceptions are passed back to the producer client</a>
<a href="#">#10207</a>	<a href="#">FTS: rgma service discovery configuration fails</a>
<a href="#">#10217</a>	<a href="#">Bad location of the wsdl file as required by glite-rgma-servicetool-serviceName.cfg.xml ?</a>
<a href="#">#10254</a>	<a href="#">getting hostname on machines with two network cards</a>
<a href="#">#10626</a>	<a href="#">service discovery consistent rgma strategy needed</a>