

## GLITE R-GMA CLIENT

### 1. RELEASE DESCRIPTION

This release contains the gLite R-GMA Client module v. 5.0.0. 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 R-GMA Client, please refer to the gLite Installation and User Guides.

### 2. CHANGES IN THIS RELEASE

The following features are deprecated in R-GMA. They will continue to work in gLite 1.3 but may be dropped in some future version.

- The `setTerminationInterval()` operation is deprecated, without replacement. The termination interval is set once only, when the resource (producer/consumer) is created, and cannot be changed.
  - Users should no longer call `setTerminationInterval()`
- The Consumer's `popAll()` operation is deprecated and calls to `popAll()` should be replaced by calls to `pop(maxCount)`.
  - Users should change `popAll()` to `pop(maxCount)`
- The Consumer's `count()` operation is deprecated without replacement.
  - Users should no longer call `count()`
- The behaviour of the `reconnect()` call automatically sending a `showSignOfLife()` to the corresponding resource is deprecated. Just calling `reconnect()` should no longer be regarded as sufficient to keep a resource alive. If the user requires a `showSignOfLife()` to be sent after the call to `reconnect()`, they should do so explicitly in their own code.
  - Users should add a `showSignOfLife()` after a `reconnect()` unless some other call is about to be made which will keep the service alive
- The behaviour of producers accepting calls to `insert()` with an `INSERT` statement that contains values that don't match the R-GMA schema for the corresponding table (e.g. strings that are too long or integers that are too big) is deprecated. The user should ensure that values match the schema and should be prepared to find that R-GMA raises an exception and fails in the `insert()` call if they do not.
  - Users should check that what they publish is consistent with the schema.

This release introduces a set of bug fixes:

- Bug #9539 Add `setMinRetentionPeriod` to old C API for use by Python
- Bug #9606 Map `edg.RGMAException` onto `rgma.RGMAException` for reconnect failures
- Bug #9539 Set min retention period for all producer types
- Bug #9406 Clean up `.pyc` files when RPM is uninstalled
- Bug #9544 Only publish unchanged tuples at longer intervals
- Bug #9366 Removed error output to `stderr`
- Bug 8812 Fixed `rgma-client-check` to set Java security system properties correctly (related to Bug #8812).
- Increase retention period for Glue tables since Gin now publishes less often.
- Fixed `getLocalHostName` to stop streaming server hanging on firewalled remote connections.

### 3. RELEASE CONTENTS

The gLite RGMA client v. 5.0.0 is composed of the following gLite components:

Component name	Description	Version	File
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glite-config	gLite configuration scripts	1.2.2	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-config-1.2.2-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-config-1.2.2-1.noarch.rpm</a>
org.glite.rgma-api-c	C API for R.GMA	4.1.12	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-api-c-4.1.12-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-api-c-4.1.12-1.i386.rpm</a>
org.glite.rgma-api-cpp	C++ API for R.GMA	4.1.14	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-api-cpp-4.1.14-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-api-cpp-4.1.14-1.i386.rpm</a>
org.glite.rgma-api-java	Java API for R.GMA	4.1.5	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm</a>
org.glite.rgma-api-python	Python API for R.GMA	4.1.14	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-api-python-4.1.14-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-api-python-4.1.14-1.i386.rpm</a>
org.glite.rgma-base	R.GMA basic configuration and documentation	4.1.19	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm</a>
org.glite.rgma-client-config	gLite R.GMA client installation	5.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.0.0-1.noarch.rpm</a>
org.glite.rgma-command-line	R.GMA command line	4.1.13	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-command-line-4.1.13-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-command-line-4.1.13-1.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/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-common-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/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-4.1.12-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-stubs-servlet-java-4.1.12-1.noarch.rpm</a>
org.glite.rgma-system-tests	System tests for R.GMA	4.1.8	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-system-tests-4.1.7-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/i386/RPMS/glite-rgma-system-tests-4.1.7-1.i386.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/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.7.3-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/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/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-security-util-java-1.1.2-2.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/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 files	1.0.2	<a href="http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.0.2-2.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.3/R20050715/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.0.2-2.noarch.rpm</a>

## 4. DEPENDENCIES

The gLite R-GMA Client module v. 4.3.1 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>

## 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>.

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="#">#5703</a>	<a href="#">case sensitive varchar's when creating an archiver</a>
<a href="#">#6287</a>	<a href="#">add a predefined query to the browser to query the new log4 table</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="#">#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>



# Release Notes

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<a href="#">#7218</a>	<a href="#">Finding the configured registry and schema</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="#">#7384</a>	<a href="#">Proxy should default to the standard location</a>
<a href="#">#7399</a>	<a href="#">API errors with expired proxy</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="#">#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="#">#7664</a>	<a href="#">Bad service names?</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="#">#8106</a>	<a href="#">Test 12 should not check GlueHost</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="#">#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="#">#8992</a>	<a href="#">browser failed to update column definitions</a>
<a href="#">#9109</a>	<a href="#">API is missing a "show tables" equivalent</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="#">#9272</a>	<a href="#">tomcat log4j warnings</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="#">#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="#">#9406</a>	<a href="#">The rgma python api RPM does not clean up after itself</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>

#9539	<a href="#">LatestProducer created by python API has zero min retention period</a>
#9606	<a href="#">Python RGMA exception incorrectly mapped when using reconnect() method</a>
#9699	<a href="#">ArchiverThread doesn't check column types when inserting.</a>
#9744	<a href="#">fatal error reported by java api when in insecure mode</a>
#9792	<a href="#">Archiver does not recreate its Consumers when they die</a>

Bugs fixed in this or previous releases, but not yet tested:

Bug number	Description
<a href="#">#4646</a>	<a href="#">RGMA on the SE</a>
<a href="#">#4698</a>	<a href="#">RGMA logging fills up /var</a>
<a href="#">#4822</a>	<a href="#">running start on started service is not an error.</a>
<a href="#">#5143</a>	<a href="#">Too many open files using MySQL</a>
<a href="#">#5251</a>	<a href="#">missing error message if the service tool fails to start</a>
<a href="#">#5306</a>	<a href="#">Use GLITE_LOCATION not RGMA_HOME</a>
<a href="#">#5411</a>	<a href="#">http://hepunix.rl.ac.uk/egee/jra1-uk/glite/index.html has various errors</a>
<a href="#">#5412</a>	<a href="#">No provision for not being port 8080</a>
<a href="#">#5510</a>	<a href="#">need for DB indices for DBProducer in underlying DBMS</a>
<a href="#">#5694</a>	<a href="#">Service publisher needs to trap errors</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="#">#7655</a>	<a href="#">declareTable fails with invalid predicate, but table is still declared</a>
<a href="#">#7397</a>	<a href="#">r-gma command-line documentation feature request</a>
<a href="#">#7398</a>	<a href="#">C API check fails with centos?</a>
<a href="#">#7442</a>	<a href="#">Remove redundant tables</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="#">#7601</a>	<a href="#">Connection not recovered after registry failure</a>
<a href="#">#7622</a>	<a href="#">Comments on the quickstart web page</a>
<a href="#">#7838</a>	<a href="#">Spell checkers are good!</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="#">#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="#">#8811</a>	<a href="#">Pong Servlet initialisation error running in insecure mode</a>

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<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="#">#9405</a>	<a href="#">The rgma command line tool sets its PYTHONPATH incorrectly</a>

## 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=jra1mdw>

Bug number	Description
<a href="#">#7294</a>	<a href="#">glite-wn-config.py (glite-rgma-client-config.py) crashes with NameError</a>