

## GLITE RGMA GIN

### 1. RELEASE DESCRIPTION

This release contains the gLite R-GMA gin 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 RGMA gin, please refer to the gLite Installation and User Guides.

### 2. CHANGES IN THIS RELEASE

This release introduces the following changes:

- Functionality changes:
  - R-GMA uses new Glue tables for schema and registry
  - R-GMA server and clients can run in secure and insecure mode:
    - The server always runs the secure mode, the insecure mode can be enabled in addition.
    - Clients can connect to the server either via the secure or via the insecure port (if enabled)
  - This module is compatible with the LCG release 2.4.0
- Deployment and configuration changes:
  - Command line changes for configuration script:
    - No option given shows help
    - --configure configures service (but does not start service)
    - --start starts service
    - --cemon=yes|no to run the CE backend for GIN
  - Configuration parameters
    - *rgma.secure.mode* added (change between secure and insecure mode)
    - *rgma.gin.run\_ce\_provider* removed (is no command line option and configuration parameter in CE)
  - R-GMA user is created by deployment module
  - Support of secure (using port 8443) and insecure mode (using port 8080)

There is a known incompatibility between gLite release 1.1 and 1.2. For details and workarounds in the R-GMA server to run 1.1 clients (e.g. the R-GMA servicetool) publishing in a 1.2 server, please see the R-GMA server release notes.

### 3. RELEASE CONTENTS

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

Component name	Description	Version	File
glite-config	gLite configuration scripts	1.2.1	<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 R.GMA	4.1.5	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-api-">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-api-</a>

			java-4.1.5-1.noarch.rpm
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-gin	R.GMA Gin	4.1.16	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-gin-4.1.16-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-gin-4.1.16-1.noarch.rpm</a>
org.glite.rgma-gin-config	gLite R.GMA gin installation	5.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-gin-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-gin-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 files	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>

## 4. DEPENDENCIES

The gLite RGMA client module has the following dependencies:

Component name	Version	RPM file name
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>

## 5. KNOWN BUGS AND ISSUES

This release has no 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>.

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="#">#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="#">#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="#">#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="#">#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="#">#7398</a>	<a href="#">C API check fails with centos?</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="#">#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="#">#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="#">#8664</a>	<a href="#">Latest producer doesn't work on JRA1 testbed</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="#">#9366</a>	<a href="#">R-GMA gin sends logs partly to console and not to log file</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="#">#9523</a>	<a href="#">StreamProducer doesn't crop VARCHARs to size defined in Schema</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="#">#9586</a>	<a href="#">WARN Exception in ConsumerThread for table: GlueSubCluster</a>
<a href="#">#9606</a>	<a href="#">Python RGMA exception incorrectly mapped when using reconnect() method</a>

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

Bug numbe	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="#">#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="#">#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="#">#7442</a>	<a href="#">Remove redundant tables</a>
<a href="#">#7449</a>	<a href="#">Bad behaviour with misconfigured registry</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="#">#8028</a>	<a href="#">method close() in java API wrapper unmapped to old api close()</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="#">#8927</a>	<a href="#">Registry hangs due to slow response from remote producers</a>
<a href="#">#4698</a>	<a href="#">RGMA logging fills up /var</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="#">#4887</a>	<a href="#">allow RetentionPeriod as a parameter in the conf file of the flexi</a>
<a href="#">#5293</a>	<a href="#">Database producer URL in rgma.conf is wrong</a>
<a href="#">#5425</a>	<a href="#">Deleted items should be replicated</a>
<a href="#">#5475</a>	<a href="#">log4j jar location is hardwired</a>
<a href="#">#5809</a>	<a href="#">Inserting '\s into latest producers</a>
<a href="#">#6506</a>	<a href="#">Tab completion doesn't pick up "from"</a>
<a href="#">#7091</a>	<a href="#">rgma-install-schema.py non-intuitive to use</a>
<a href="#">#7349</a>	<a href="#">glite-rgma-base-4.1.10-1 fails to install in LB installer</a>
<a href="#">#7451</a>	<a href="#">CTRL-C not properly trapped in python API</a>
<a href="#">#7537</a>	<a href="#">Minor problems with read command</a>
<a href="#">#7541</a>	<a href="#">Problems with the rgma man page</a>
<a href="#">#7623</a>	<a href="#">Missing documentation in command line help</a>
<a href="#">#7624</a>	<a href="#">Predicate doesn't work?</a>
<a href="#">#7625</a>	<a href="#">Insert gives unclear warning</a>
<a href="#">#7626</a>	<a href="#">YABEM (Yet Another Bad Error Message)</a>
<a href="#">#7627</a>	<a href="#">Missing help for show properties</a>
<a href="#">#7631</a>	<a href="#">No results returned from R-GMA</a>
<a href="#">#7633</a>	<a href="#">Would be useful to query the configured registries</a>
<a href="#">#7692</a>	<a href="#">How one can check whether his jobs do not start because of lack of resources, or because of problem</a>
<a href="#">#8100</a>	<a href="#">Slow response at CERN</a>
<a href="#">#8102</a>	<a href="#">RGMA test 10 is dumping core</a>



# Release Notes

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<a href="#">#8107</a>	<a href="#">Erratic test failures</a>
<a href="#">#8425</a>	<a href="#">Cleanup problem when using 1 registry</a>
<a href="#">#8509</a>	<a href="#">The GRRP thread ignores 'connection timed out' messages</a>
<a href="#">#8608</a>	<a href="#">Correct version of JDK for using the R-GMA APIs</a>
<a href="#">#8668</a>	<a href="#">R-GMA won't accept an insert which doesn't include all the columns</a>
<a href="#">#8987</a>	<a href="#">Create table allows unsupported types to be created</a>
<a href="#">#9378</a>	<a href="#">bug in /opt/glite/libexec/rgma-system-tests/c/producer</a>