GLITE R-GMA SERVER

1. RELEASE DESCRIPTION

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

2. CHANGES IN THIS RELEASE

2.1. CHANGES IN FUNCTIONALITY

- This release of R-GMA in gLite 1.5 fixes more than 40 bugs. The most serious bug (number 8099: "Archivers are Inconsistent") has not been fixed completely but this release should show much better behaviour.
- The version is finally free of the old EDG API layer. The APIs communicate directly with the services and are no longer interdependent. One consequence of this is much improved error messages.
- APIs and services must be matched for the transition from 1.4 to 1.5 - so a site should upgrade in one go.
- For C we provide a 1.4 compatibility library so that code linked against a shareable library will still work. This was not feasible for the C++, so C++ application code must be recompiled. An extra compiler switch is needed for both C and C++ compilation.
- Error handling is much improved. You can now expect to receive a clear error message if there is a problem. If you don't - please submit a bug. There are three new exception types:

  RGMASecurityException
  RGMAUserException
  RGMABufferFullException

- We are now checking that published data are consistent with the schema. Previously a primary producer would accept almost anything, but then a secondary producer might modify the fields - e.g. truncating strings or it could just reject the tuple. Now we make the check when you try to insert the data into R-GMA this allows us to reject the tuple at source and inform the guilty party.
- The rgma-client-check has been changed so it only checks installed APIs. Each API is checked in turn, with a Producer and then a Consumer being created for that API. This results in the rgma-client-check taking upwards of 2.5 minutes.
- The reconnect operation no longer sends a showSignOfLife. This is an important change of semantics. Typically if you reconnect, you will immediately use the service so you will be unaware of the change. Finally, there used to be some non-advertised facilities for determining service status. We now offer getProperty operations to find out what is happening. These are of limited interest to the normal user. A setProperty call is also provided.

NEW FEATURES

- (LRP on insert) You can now specify a latest retention period for each tuple in the Primary Producer's insert call, overriding the one specified in declareTable. This is useful, for example,

for the R-GMA Service Tool as different LRPs are appropriate for data from different services about which information is being published.

- (Logically named tuple stores) You can now access the database used by a Primary or Secondary producer just by giving it a logical name: R-GMA will map it to a physical database for you. Two new API calls listTupleStores and dropTupleStores are provided to manage them.
- (Tuple checking) Attempts to insert tuples that are inconsistent with the table definition in the schema will now be rejected.
- (numSuccessfulOps) The Primary Producer's insertList call may fail after inserting a number of tuples. You can now determine how far it got with the new numSuccessfulOps field in the RGMAException. It will contain the number of successfully inserted tuples.
- (endOfResults) A new method called endOfResults has been added to the result set returned by the Consumer's pop method to allow a much cleaner consumer loop to be constructed. A (Python) example looks like this:

```
consumer.start(timeout)
while 1:
   results = consumer.pop(1000)
   for result in results:
      print result
   if results.endOfResults:
      break
   time.sleep(5)
```

  The calls for the old looping constructs isExecuting and count are deprecated.
- (Registry and Schema calls) Calls to access the Registry and Schema have been added to the APIs. The most important new calls are getAllProducersForTable on the Registry and createTable, dropTable, getAllTables and getTableDefinition on the Schema. The temporary create-table command line utility has been withdrawn. Note that users should be very wary of calling dropTable because table definitions are shared by everyone using the Schema.

DEPRECATED FEATURES

- VO-names list in createPrimaryProducer, createSecondaryProducer and createOnDemandProducer.
- IgnoreSlowConsumers property in createPrimaryProducer and createSecondaryProducer: the flag will be ignored and tuples dropped when the History Retention Period (HRP) is exceeded.
- FILE storage type in createPrimaryProducer and createSecondaryProducer: it was never implemented so nobody should miss it.
- HTTP protocol in URI in createOnDemandProducer: this was unused.
- isExecuting and count Consumer calls: use the new endOfResults call as described above.

FEATURES WITHDRAWN

- setTerminationInterval for all producers and consumers: this was deprecated in previous releases.
- popAll on a consumer: this was deprecated in previous releases.

- setMetaData, setEndOfResults, addRow and setWarning in the C++ API's ResultSet class: these were not deprecated previously, but should never have been made public.

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 R-GMA Server.

2.2.1. New configuration parameters

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

Parameter name	Default value	Description
rgma.site-publisher.description	changeme	Human readable description of the site. [Example: CERN testbed for prototype tests.] [Type: 'string']
rgma.site-publisher.siteName	changeme	Human readable name of the site. [Example: CERN testbed] [Type: 'string']
rgma.site-publisher.webLocation	changeme	Web location of the site (e.g. the homepage). [Example:] [Type: 'string']
rgma.site-publisher.location	changeme	Human readable location of the site. [Example: CERN, Geneva] [Type: 'string']
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
rgma.site-publisher.siteId	${HOSTNAME}	Unique Id of site. It has to be a DNS entry owned by the site and does not have to be shared with another site (i.e it uniquely identifies the site). It normally defaults to the DNS name of the R-GMA Server running the Site Publisher service. [Example: lxb1420.cern.ch] [Type: 'string'] This parameter obsoletes the parameter: rgma.site-publisher.sitename
rgma.archiver.db.historyRetentionPeriod	90	History retention period for flexible

		archiver db. [Example: 90] [Type: 'integer'] [Unit: 'minutes']

2.2.2. Modified configuration parameters

The following new parameters have been modified in the glite-rgma-server.cfg.xml file:

Parameter name	Old value	New value	Description
rgma.server.run_registry_service	changeme [type: string]	changeme [type: boolean]	The parameter type is now Boolean and can take the values true or false for consistency with all other similar parameters in the gLite configuration model. The old string values (yes|no) are still supported, but a warning message is output.
rgma.server.run_registry_service	changeme [type: string]	changeme [type: boolean]	The parameter type is now Boolean and can take the values true or false for consistency with all other similar parameters in the gLite configuration model. The old string values (yes|no) are still supported, but a warning message is output.
rgma.server.run_browser	changeme [type: string]	changeme [type: boolean]	The parameter type is now Boolean and can take the values true or false for consistency with all other similar parameters in the gLite configuration model. The old string values (yes|no) are still supported, but a warning message is output.
rgma.server.run_archiver	changeme [type: string]	changeme [type: boolean]	The parameter type is now Boolean and can take the values true or false for consistency with all other similar parameters in the gLite configuration model. The old string values (yes|no) are still supported, but a warning message is output.
rgma.server.run_site-publisher	changeme [type: string]	changeme [type: boolean]	The parameter type is now Boolean and can take the values true or false for consistency with all other similar parameters in the gLite configuration model. The old string values (yes|no) are still supported, but a warning message

			is output.

2.2.3. Removed configuration parameters

The following parameters have been removed from the glite-rgma-server.cfg.xml file:

Parameter name	Reason
rgma.site-publisher.sitename	This parameter has been obsoleted by the new parameter rgma.site-publisher.siteId

3. RELEASE CONTENTS

3.1. GLITE SUB-DEPLOYMENT MODULES

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

- glite-rgma-server
- glite-rgma-servicetool
- glite-security-utils

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

3.2. GLITE RPMS

The gLite R-GMA Server 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	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-config-1.6.22-2.noarch.rpm
glite-essentials-cpp	Essential C/C++ libraries for gLite software	1.1.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.i386.rpm
glite-essentials-java	Set of JAVA libraries essential for gLite middleware	1.2.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-essentials-java-1.2.0-2_EGEE.noarch.rpm
glite-rgma-api-c	C API for R-GMA	5.0.5	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-rgma-api-c-5.0.5-1.i386.rpm
glite-rgma-api-cpp	C++ API for R-GMA	5.0.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-rgma-api-cpp-5.0.9-1.i386.rpm
glite-rgma-api-java	Java API for R-GMA	5.0.3	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-java-5.0.3-1.noarch.rpm
glite-rgma-api-python	Python API for R-GMA	5.0.3	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-api-python-5.0.3-1.noarch.rpm
glite-rgma-base	R-GMA basic configuration and documentation	5.0.4	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-base-5.0.4-1.noarch.rpm
glite-rgma-common-config	gLite rgma common configuration items installation	5.0.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.1-1.noarch.rpm
glite-rgma-flexible-archiver	R-GMA flexible archiver	5.0.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-flexible-archiver-5.0.1-

			1.noarch.rpm
glite-rgma-glue-archiver	R-GMA Glue archiver	5.0.5	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-glue-archiver-5.0.5-1.noarch.rpm
glite-rgma-publish-site	R-GMA site publisher	5.0.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-publish-site-5.0.2-1.noarch.rpm
glite-rgma-server-config	gLite R-GMA Server installation	5.2.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-server-config-5.2.0-1.noarch.rpm
glite-rgma-server-servlet	Servlet-based R-GMA server implementation	5.0.12	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-server-servlet-5.0.12-1.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-rgma-standard-tables	A set of standard table schemas for R-GMA	5.0.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-standard-tables-5.0.2-1.noarch.rpm
glite-rgma-stubs-servlet-java	Java client implementation stubs for R-GMA	5.0.3	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
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

4. DEPENDENCIES

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

Component name	Description	Version	RPM file name
j2re	Java JRE	1.4.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/j2re-1_4_2_08-linux-i586.rpm
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
swig-runtime	swig-runtime	1.3.21	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/swig-runtime-1.3.21-1_EGEE.i386.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

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 .

5.1. MAIN ISSUES

- Archivers are inconsistent.
  There are a number of things contributing to this problem, which might better be described as "R-GMA sometimes loses tuples." The consequence being that 2 archivers may collect different tuples. We do *not* guarantee reliable delivery of tuples. Clearly this would be impossible with a memory based producer. We have tried to clarify in the spec how we handle tuples and clean them out for history and latest queries. The difficulty is with the continuous query. We try to deliver the tuple to those consumers which appear to be alive and functioning and will try for a few times to deliver the tuple, but eventually we have to give up otherwise we run out of memory. Exactly how hard we try to deliver is, intentionally, not defined in the spec.
- There is now a stricter check for SQL92 compliance. If applications were using invalid table names they may not work anymore in this release. Although, this is not an issue with R-GMA, applications providers should be aware of the need of revising their applications.
- User schema changes are not preserved when upgrading from previous versions of R-GMA. Applications that have redefined the schema may break after the upgrade. Instructions to migrate custom tables from the old schema to the new one can be found at:

  http://hepunx.rl.ac.uk/egee/jra1-uk/glite-r1.5/schema-upgrade.html

- When using multiple registries replication is inconsistent. Since the result of registry replication can produce unreliable results, it is recommended not to use more than one registry per R-GMA domain. This functionality is explicitly disabled in this release.
- The R-GMA specifications (available from https://edms.cern.ch/document/490223/) states on page 69 that both INTEGER and INT data types are both supported. This is not the case at present as INT is not currently supported.
- Table and column names are currently case sensitive in R-GMA. To get consistent results always respect case.
- Continuous queries are case sensitive but latest and history queries ignore case with a default installation of MySQL.
- Only a subset of SQL92 is currently supported by R-GMA, and continuous queries are even more restricted. Time functions in SQL should not be used.
- Some operations of the command line tool try to access the schema and registry directly rather than just the local R-GMA server. This access may be blocked by a firewall.
- Use Java version 1.4.2 08 or later. There is a known issue with Java 1.4.2 running with the Scientific Linux 3 SMP kernel on dual processor machines, where the Java Virtual Machine can crash without warning. The problem does not seem to occur in RH7.3 or RHEL4.
- The Python API and the command line tool (that uses it) make a new connection to the server for each API operation. When connecting to a secure server this adds a substantial overhead, so multiple API calls (e.g. lots of inserts) will run slowly. The other three APIs are not affected.
- All VDBs share the same name space and information. Though the VDBName parameter is ignored, users are recommended to set it to an empty (zero length) string. This will facilitate the introduction of VDBs. Table names must not contain "." This will avoid confusion with VDBNames when they become active.

5.2. KNOWN OPEN BUGS

Bug number	Description	
#5412	RGMA: No provision for not being port 8080	
#5703	case sensitive varchar's when creating an archiver	
#6288	HTTP proxy support is inconsistent	
#6475	Case sensitivity for table names is problematic	
#6493	Bad case sensitivity for insert	
#6496	Bad/missing error messages with select	
#6510	Case sensitivity depends on query type	
#6512	More parsing errors	
#6514	Case sensitivity error with a secondary producer	
#6935	Install guide mentions RGMA-Server in LTS Section	
#6977	Printable version of the APIs would be nice	
#7024	Additions to the manuals	
#7149	Formatting strings for output	
#7188	Bad messages if a port isn't open	
#7220	Bad error message with ssl error	
#7225	All client interactions should go via the local servlet box	
#7226	rgma client configuration succeds, but a client test fails	
#7276	Bad error message for expired proxy	
#7399	API errors with expired proxy	
#7542	Overriding the rgma.conf	
#7574	rgmaservicetool configuration script changeme error	
#7575	rgma servicetool configuration script does not exit on error	
#7635	Problems with registry configuration	
#7654	Detection of an error with TRUSTFILE	
#7676	Need to find out server limits on parameters	
#7707	Service table WSDL and Semantics links should be URLs	
#7726	Bad error message in web browser	
#8099	Archivers are inconsistent	
#9272	tomcat log4j warnings	
#9384	R-GMA registry is not protected against careless use	
#10066	Reassigned item: Site Archiver	
#10635	R-GMA archiver installation prints error	
#11481	R-GMA GIN: parameter 'rgma.gin.run_ce_provider' missing in template	
#11689	Sites may not all know of same set of registries	
#11690	Replication may fail	
#12022	Store last client accessing a service in the registry	
#12023	Support LIKE in continuous queries	
#12227	testCreateInvalidSQLColumn etc test fails	
#12237	Service test/ODP/testAbortNoSuchConsumer fails	

#12239	Service test/PPP/DropTupleStore fails	
#12244	Service test/RP/testCreateNegativeQueryType etc fail	
#12245	Service test/RP/testRegisterProducerTableZeroHRP etc fail	
#12246	Server Test/RRD/testGetAllProducersForTable1 etc fail	
#12247	Server Test/RRD/testGetMatchingProducersForTables etc fail	
#12248	Server Test/RRD/testGetMatchingProducersForTablesComplete etc fail	
#12250	Server test/SchemaDB/testFullTableDetails	
#12251	Server test/SchemaDB/testFullTableDetailsViews	
#12252	Server test/SchemaDB/testFullTableDetailsIndex	
#12253	SFS Test Consumer/Join soemtimes fails	
#12254	SFS test Consumer/MultipleProducers - FAIL	
#12255	SFS Consumer/MultipleProducers - FAIL (6 & 7)	
#12257	SFS test Consumer/MediatorWarnings - FAIL (4)	
#12259	SFS SecondaryProducer/Continuous - FAIL	
#12260	SFS Timeouts/RetentionPeriods - FAIL	
#12261	SFS Timeouts/TerminationInterval - PASS (sometimes FAIL)	
#12262	glite-rgma-servicetool crashes with: stty: standard input: Inappropriate ioctl for device	
#12518	DB connection pooling required	
#12731	Registry API attempts a lookup if only 1 registry exists	
#13318	R-GMA Archiver: configuration of custom settings for the archiver fails	
#13322	rgma servicetool status script ot called bu /etc/init.d/gLite	
#13470	fields cannot be mapped from ldap to rgma by gin	
#13472	the sitePublisher should publish the email contacts in the form "mailto: email"	
#13473	the servicetool should publish the StartTime of services	
#13530	add the table names to the log4j messages from gin	
#13545	Errors in the System API	
#13629	Provide a framework for republishing into a non-RGMA DB	
#13632	R-GMA latest queries insensitive to case of strings (values)	
#13653	tests/Service/OnDemandProducer/Operations/Start	
#13654	tests/Service/Consumer/Operations/CreateConsumer	
#13655	tests/Service/Consumer/Operations/Pop	
#13656	tests/Service/Consumer/Operations/add|removeProducer	
#13661	Obtain R-GMA servicetool service version dynamically via script	
#13692	APEL should allow per-VO publishing configuration	
#13725	Treat empty env as no env	
#13798	R-GMA Servicetool log entries format and timestamps are not consistent	
#13861	test/SimpleFullSystem/*/LoggingLevel	
#13869	test failure: Multi-vdb registry/schema operations fail	
#13871	test failure: Registry does not validate urls	
#13872	test failure: Registry does not validate predicates	

#13873	test failure: Registry does not validate producer types	
#13875	test failure: showResourceSignOfLife doesn't work	
#13876	test failure: null is not allowed for hrp parameter in showResourceSignOfLife	
#13964	NOT NULL added for all DATE/TIME columns	
#13978	Service test SchemaDB/testIntTableDefinition	
#14014	Pong issues raised by Kostas	
#14060	Consumers are not always notified of expiring producers	
#14064	R-GMA servicetool does not allow to specify a status script with '='	
#14065	glite 1.5 servicetool does not correctly upgrade 1.4 servicetool	
#14067	Invalid dates are not always trapped by the tuple checker	
#14078	always build PIC code in org.glite.rgma.api-cpp	
#14164	Resilience test suite needs to be fully restartable	
#14167	Re-introduce ACL on PP, SP, ODP, consumer and Schema.	
#14229	Consumer table name missing in ServiceStatusDetails	
#14296	Tools need separate security configuration	
#14335	Query type is missing for SecondaryProducer ServiceStatusDetails	
#14336	Inspector gadget requires 'index' header to return to title page	
#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	
#14347	Class cast exception thrown when converting exception to XML	
#14395	Faulty ACL lookup of producers returned by Registry.	
#14405	tests/Service/Consumer/Operations/FlushQueue	
#14407	Service/PrimaryProducer/Operations/CreatePrimaryProducer	
#14408	Service/PrimaryProducer/Operations/Start	
#14410	Service/OnDemandProducer/Operations/DeclareStaticTable	
#14411	Service/OnDemandProducer/Operations/Start	
#14416	Secondary producer does not implement the system API	
#14462	R-GMA cron scripts need to be modified to prevent multiple execution if a previous cron scipt hangs	
#14476	Changes to network monitoring tables.	

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

Bug number	Description	
#4284	RGMA: error message for a non existent table is misleading	
#4438	R-GMA doesn't check types	
#4634	RGMA scripts from EDG still present	
#5143	Too many open files using MySQL	
#5510	need for DB indices for DBProducer in underlying DBMS	

#6479	csv and tsv output has vanished	
#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	
#7156	C++ SecondaryProducer example doesn't behave as expected	
#7189	How do you know the primary key?	
#7283	Inserting '\'s	
#7332	Services such as rgma-servicetool are not services.	
#7442	Remove redundant tables	
#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"?	
#7600	servlet check doesn't spot time sync problem	
#7622	Comments on the quickstart web page	
#7644	Need explanation of how to get info out of result sets	
#7655	declareTable fails with invalid predicate, but table is still declared	
#7664	Bad service names?	
#7704	Publication rate and LRP for site and service publishers should be configurable	
#7706	Service publisher values should not be configurable	
#8427	rgma-gin problem: "Gin is aborting because of a fatal error"	
#8439	Components deadlocks when Registry down and do not resume	
#8457	R-GMA does not remove illegal XML characters	
#8479	Reassigned item: RGMA crashes on IA64	
#8552	'Out of Memory' Registries cause rgma system to run very slowly.	
#8650	R-GMA dies trying to insert a record	
#8749	createOnDemandProducer calls the CanonicalProducer API incorrectly	
#8811	Pong Servlet initialisation error running in insecure mode	
#8812	ServletConnection throws exception in insecure mode	
#8862	When servicetool endpoints are changed in config they don't seem to update properly	
#8882	Predefined queries on the Browser are linked to the old schema tables	
#8950	in glite 1.1 having the site configured not to use RGMA, the deployment script fails with RGMA not working	
#8992	browser failed to update column definitions	
#8993	rgma-server-setup.py sets the replicate attribute to true in rgma-server.conf even though only one registry is being use	

#9109	API is missing a "show tables" equivalent	
#9303	C API fails with HTTP protocol error in some circumstances.	
#9366	R-GMA gin sends logs partly to console and not to log file	
#9375	glite-rgma-server-installer does not create /var/log/glite/rgma-server/rgma-server.log	
#9381	NullPointerException in R-GMA StreamProducerServlet	
#9406	The rgma python api RPM does not clean up after itself	
#9507	R-GMA BrowserServlet threw exception clicking on endpoint	
#9523	StreamProducer doesn\'t crop VARCHARs to size defined in Schema	
#9539	LatestProducer created by python API has zero min retention period	
#9544	Gin publishes tuples regardless of whether they have changed or not	
#9589	Site publisher needs extra config items	
#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	
#9699	ArchiverThread doesn't check column types when inserting.	
#9744	fatal error reported by java api when in insecure mode	
#10030	history retention period for Secondary Producer does not work as expected	
#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	
#10181	Gin is aborting because of a fatal error	
#10182	All Exceptions in Python API are mapped to RGMAException	
#10238	Archiver producer buffer fills up	
#10387	Servicetool does not kill hanging status scripts	
#10511	User guides should contain more advice	
#10555	R-GMA site publisher documentation does not contain new values	
#10600	Strings that look like numbers get treated as numbers	
#10604	In memory streaming code causes out of bounds exception	
#10617	SP deadlock with multiple tables	
#10636	R-GMA glue archiver prints error if id file is not there	
#11105	rgma-flexible-archiver-db-setup deletes access permissions for all databases for a user	
#11473	Documentation build problem in rgma.base	
#12231	default glue archiver history retention period to short	
#12235	Service tests/ODP/testStartZeroTimeout etc fail	
#12236	Service test/ODP/testAbortClosed: Does not throw UnknownResourceException	
#12238	Service test/PPP/testCreateNegativeQueryType etc fail	
#12243	Service test/PPP/testGetHRPNotDeclared etc fail	
#12249	static producers are registered using the same flags code as history producers	

#12256	SFS test Consumer/MediatorWarnings - FAIL(1 2 & 3)	
#12258	SFS Test OnDemandProducer/SocketProtocol - FAIL	
#12445	C++ API crashes when connecting to insecure services.	
#12459	Gin is not handling nulls correctly	
#12505	update gin for glue 1.2	
#12531	glue archiver tables updated with complete list	
#12539	Command line tool still uses isEndOfResults()	
#12540	gin doesn't recognise attribute blocks if the dn: line has no space	
#12542	CheckStyle reports too many errors on "services" build	
#12546	Gin cannot handle out-of-range integers	
#12558	rgma-server-setup doesn't create permissions for tuple stores with logical names	
#12561	Database with REAL column clashes with existing database	
#12563	setLoggingLevel can't set individual class levels	
#12564	SiteFilter allows a host if its URL is malformed	
#12575	C++ API documentation not complete	
#12581	PrimaryProducer/insert does not throw exception on database update failure	
#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.	
#12609	Service test/SecondaryProducer/dropTupleStore	
#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	
#13042	Gin fails to publish large data set	
#13181	The origin in the schema databae table is too small	
#13312	rgma-client-check conflict between base and system-tests module	
#13313	Unhelpful error thrown on declareTable with invalid predicate	
#13329	update gin for new grid ice schema	
#13330	Gin is confused by tabs in its config file	
#13349	RGMA: servicetool sends error to screen if server is down	
#13431	ia64 not in BuildArch for rgma rpms	
#13434	Schema.dropTable doesn't.	
#13460	latest/history+old queries fail	
#13480	Not-yet-implemented functions don't throw not-yet-implemented exception.	
#13491	Missing ServiceStatusDetails property	
#13497	errors when installing the glite-rgma-server-servlet rpm	
#13511	Inconsistent use of X509-USER_PROXY and TRUSTFILE env vars	

#13538	rgma messages about possible firewall problems should not be written to catalina.out	
#13569	add configuration script for rgma-glue-archiver	
#13596	Reassigned item: rgma-client-check does not respect $X509_CERT_DIR	
#13615	glite-rgma-server-config.py --recreate_db does not seem to be working	
#13658	JVMFreeMemory service property is not useful.	
#13673	rgma-setup script still configures old servlet names in rgma.conf	
#13773	Tuple clean-up for latest secondary producer doesn't work	
#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	
#13831	LOCK file for glue archiver is not created correctly	
#13918	Pong issues raised by Kostas	

5.4. 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	http://hepunx.rl.ac.uk/egee/jra1-uk/glite/index.html has various errors	
#6287	add a predefined query to the browser to query the new log4 table	
#6391	Wrong cron.hourly entry	
#6481	Bad error message from show	
#7018	Manuals should mention case-sensitivity issues	
#7218	Finding the configured registry and schema	
#7315	R-GMA Servicetool dumps stack traces to stderr	
#7398	C API check fails with centos?	
#7449	Bad behaviour with misconfigured registry	
#7566	rgma.servicetool parameters	
#7838	Spell checkers are good!	
#7916	"glite-rgma-client_installer.sh if -n $basedir; then"	
#8106	Test 12 should not check GlueHost	
#8548	R1/LCG Java API doesn't work with Java 1.5	
#8551	Rgma servers should avoid selecting a Registry if one is located locally.	
#8574	Issuing \'mysql -u root -p < .....\' failed	
#8794	ConnectionTimeOutExceptions are passed back to the producer client	
#8898	Flexible archiver init.d script returns ok when it has failed with a RGMAException	
#8927	Registry hangs due to slow response from remote producers	
#9195	APEL 3.4.45 Doesn't work with Java 1.5	
#9238	Replica Manager thread dies and does not recover	
#9315	R-GMA components don't follow agreed naming convention for service type	

#9395	Registry API causes deadlock	
#9405	The rgma command line tool sets its PYTHONPATH incorrectly	
#9792	Archiver does not recreate its Consumers when they die	
#9836	Insecure configuration of R-GMA fails	
#10608	Missing TRUSTFILE initialisation for the glue-archiver	
#10797	glite-rgma-server-config.py --configure fails due to undefined $GLITE_LOCATION	
#10842	R-GMA 1.3 -> 1.4 does not work	
#10891	The script rgma-setup.py (and maybe others) do not resolve environment variables	
#10913	MySQL 4.1.11 shipped with R-GMA Server conflicts with MySQL API libs for python, perl, php	
#11675	When working with a 1.4 WMS with the RGMA purchaser glite-job-list-match retrieves 1.3 CE(s) only	
#12234	Service Test/ODP/testDeclareStaticTableInvalidPredicateColumnNames etc	
#12509	Gin is unable to map all of the glue 1.2 site and service tables	
#12610	Service test/SecondaryProducer/declareTableZeroHRP etc	
#12661	Insert fails when using not LRP is defined	
#13463	Occasionally when restarting the WMS service the rgma lock file prevents rgma from being restarted	
#13517	clean-up not working for glue archiver	
#14231	out of date entries in the registry	
#14254	/opt/glite/bin/rgma-server-check checks a wrong reponse string	