

GLITE DATA MANAGEMENT SINGLE CATALOG (FIREMAN)

1. RELEASE DESCRIPTION

This release contains the gLite Data Management Single Catalog (Fireman) for MySQL module v. 2.0.2. 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 Data Management Single Catalog, please refer to the gLite Installation and User Guides.

2. CHANGES IN THIS RELEASE

2.1. CHANGES IN FUNCTIONALITY

This release doesn't contain any functional change, but the database schema has changed. If the service is upgraded from gLite 1.3 to 1.4, the `--db_force_create` option of the `glite-data-single-catalog-config.py` script must be used when configuring the service for the first time. All existing data is destroyed. The service doesn't provide ways of migrating an existing database to the new schema.

2.2. CHANGES IN CONFIGURATION

The following new parameters have been added to the `glite-data-single-catalog.cfg.xml` file:

Parameter name	Default value	Description
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The following parameters have been changed in the `glite-io-client.cfg.xml` file:

Parameter name	Old value	New value	Description
<code>catalog-service-fr-mysql.DBURL</code>	<code>jdbc:mysql://localhost:3306/\${catalog-service-fr-mysql.DBNAME}?zeroDateTimeBehavior=convertToNull</code>	<code>jdbc:mysql://localhost:3306/\${catalog-service-fr-mysql.DBNAME}</code>	URL of the database
<code>rgma.servicetool.service_type</code> (FiremanCatalog servicetool instance)	<code>org.glite.data.FiremanCatalog</code>	<code>org.glite.FiremanCatalog</code>	The service type. This should be uniquely defined for each service type. The naming convention is <code>org.glite.subsystemname.componentname</code> for gLite components and corresponding names for external components.
<code>rgma.servicetool.service_type</code> (SEIndex servicetool instance)	<code>org.glite.data.SEIndex</code>	<code>org.glite.SEIndex</code>	The service type. This should be uniquely defined for each service type. The naming convention is <code>org.glite.subsystemname.co</code>

			Componentname for gLite components and corresponding names for external components.
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The following parameters have been removed from the glite-io-client.cfg.xml file:

Parameter name	Comment
db.force.create	This is not anymore a parameter in the config file, but a command line option of the config script: --db_force_create

3. RELEASE CONTENTS

3.1. GLITE SUB-DEPLOYMENT MODULES

The gLite I/O WN module includes the following sub-modules:

- gLite Security Utilities
- gLite R-GMA Servicetool

The sub-modules are automatically installed with the Fireman module unless differently specified. For more information about these sub-modules please refer to the specific release notes and installation instructions.

3.2. GLITE RPMS

The gLite Data Management Single Catalog v. 2.0.2 is composed of the following gLite components:

Component name	Description	Version	File
glite-config	gLite configuration scripts	1.4.5	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-config-1.4.5-1.noarch.rpm
glite-data-catalog-service-fr-mysql	gLite Data Catalog Service (MySQL version)	1.4.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-data-catalog-service-fr-mysql-1.4.2-1.noarch.rpm
glite-data-common	common files for gLite Data Management web-services	1.3.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-data-common-1.3.0-1.noarch.rpm
glite-data-single-catalog-config	gLite Fireman Catalog for MySQL node configuration files	2.0.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-data-single-catalog-config-2.0.2-1.noarch.rpm
glite-rgma-api-java	Java API for R-GMA	4.1.5	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm
glite-rgma-base	R-GMA basic configuration and documentation	4.1.19	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-base-4.1.19-1.noarch.rpm

glite-rgma-common-config	gLite rgma common configuration items installation	5.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-common-config-5.0.0-1.noarch.rpm
glite-rgma-servicetool	R-GMA service tool	4.1.19	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-4.1.19-3.noarch.rpm
glite-rgma-servicetool-config	gLite R-GMA servicetool installation	5.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-config-5.1.0-1.noarch.rpm
glite-rgma-stubs-servlet-java	Java client implementation stubs for R-GMA	4.1.13	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
glite-security-trustmanager	The java certificate path checkin for proxy certs in SSL with plugins for tomcat and axis.	1.7.3	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-trustmanager-1.7.3-1.noarch.rpm
glite-security-util-java	The java utilities library for security	1.1.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-util-java-1.1.2-2.noarch.rpm
glite-security-utils-config	gLite Security Utilities configuration files	1.0.6	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.0.6-1.noarch.rpm

4. DEPENDENCIES

The gLite Data Management Single Catalog module has the following dependencies:

Component name	Version	RPM file name
MySQL-server	4.1.11	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-server-4.0.20-0.i386.rpm
MySQL-client	4.1.11	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-client-4.0.20-0.i386.rpm
Tomcat	5.0.28	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/tomcat5-5.0.28-10_EGEE.i386.rpm
Java SDK/JRE	1.4.2	http://java.sun.com/j2se/1.4.2/download.html

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>.

- No removal procedure is provided with this release apart from the removal of the RPMS. Any account, group or other resource created during the module configuration must be manually cleaned.

Known open bugs:

Bug number	Description
#7730	Fireman: glite-catalog-ls returns different message for MySQL and Oracle catalog when dir doesn't exist
#9465	glite-data-catalog-interface is not a runtime, only build dep
#9773	Typo in template in glite-data-single-catalog.cfg.xml
#10124	In the release notes of the glite data single catalog for mysql there is no mention of the new parameters
#10336	Data Single Catalog: no mention to voms in the documentation
#10535	Fireman Documentation: Examples in DM catalog c and c++ api do not work
#10722	MySQL Fireman glite-catalog-setreplia doesn't work
#10828	Fireman CLI: glite-catalog-ls pb with path ending with "/"

The following bugs have been fixed in this or previous releases, but not yet tested:

Bug number	Description
#5581	Cannot remove files from the catalog
#5633	Fireman catalog: "java.lang.reflect.InvocationTargetException" during bulk creation of entries
#5723	Fireman catalog: "500 Internal Server Error" response to readDir call after killing a client during a bulk create call
#5923	Fireman catalog: Exceptions while creating entries (via bulks) with 10 clients simultaneously
#6465	services/FileCatalog automatically added to the Fireman endpoint
#7256	data-catalog-api-c-2.0.0 let me create twice the same entry in the catalog
#7785	FR_TEST.PERMISSION_UTIL not found in oracle catalogue installation
#7993	option parsing of glite-catalog-find
#7995	SC: reference to glite-data-local-transfer-service left in Single Catalog Installation section
#8052	Problem with glite-catalog-mkdir with -p option
#8053	Problem with glite-catalog-create with -S option
#8060	Problem with glite-catalog-chkperm
#8682	After the Single Catalog (MYSQL) installation /etc/grid-security/vomsdir is not created
#9033	Catalog CLI: it is not possible to submit bulk create requests
#10297	getreplia returns pointer to strings in mysql_catalog
#10550	glite-catalog-getattr segfaults for non-existent attributes
#10551	glite-catalog-getattr -r option not recognised

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	
#6730	LFN normalisation needs to be done in Fireman catalogs	
#6861	Incorrect error message from glite-catalog-ls command	
#7089	glite-catalog-mkdir error message has a typo	
#7190	SC: link to installer wrong	
#7238	glite-catalog-rmdir doesn't produce a exception when directory is not empty	
#7690	problem with glite-catalog-ls	
#7790	glite-security-utils_installer.sh is not run by the Single Catalog installation script	
#7833	Problem with glite-catalog-mv	
#8057	Problem with glite-catalog-chmod	
#8416	glite-catalog-find returns all entries	
#8437	Not possible to create dirs/files in Fireman catalog in secure mode	
#8438	glite-catalog-chkperm (MySQL version) only checks user permissions	
#9820	Information on schema change missing in release notes for Fireman	
#10373	glite-catalog-ls fails when quering a mysql single catalog	
#10538	glite-catalog commands segfault without valid VOMS proxy	
#10770	glite-catalog-setacl passes existing acl in when run with '-m' option	
#10857	glite-catalog-ls crashes if no proxy init	