

GLITE I/O SERVER

1. RELEASE DESCRIPTION

This release contains the gLite I/O Server module v. 2.0.1. 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 I/O Server please refer to the gLite Installation and User Guides.

2. CHANGES IN THIS RELEASE

2.1. CHANGES IN FUNCTIONALITY

This release doesn't introduce any functional change.

2.2. CHANGES IN CONFIGURATION

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

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

Parameter name	Old value	New value	Description
rgma.servicetool.service_type (for the I/O Server instances)	org.glite.data.IOServer	org.glite.GliteIO	The service type. This should be uniquely defined for each service type. The naming convention is org.glite.subsystemname.componentname for gLite components and corresponding names for external components.

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

Parameter name	Comment
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The service type published by the gLite I/O Server instances is now

org.glite.GliteIO

which is the service type required by the I/O Client to use service discovery. The old service type cannot be used. Please also note that the rfio service is not published anymore by default.

3. RELEASE CONTENTS

3.1. GLITE SUB-DEPLOYMENT MODULES

The gLite I/O Server module requires the following sub-modules:

- gLite Security Utilities
- gLite R-GMA Servicetool

The sub-modules are automatically installed with the I/O Server module. For more information about these sub-modules please refer to the specific release notes and installation instructions.

3.2. GLITE RPMS

The gLite I/O Server v. 2.0.1 is composed of the following gLite components:

Component name		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-api-c	gLite Data Catalogs C/C++ API	2.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-catalog-api-c-2.0.0-3.i386.rpm
glite-data-catalog-interface	gLite Catalog Interfaces	2.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-data-catalog-interface-2.0.0-6.noarch.rpm
glite-data-config-service	GLite Data Config Service	1.2.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-config-service-1.2.2-2.i386.rpm
glite-data-io-authz-catalogs	GLite Data IO Authorization Plugin: Use EDG RMC	1.0.1	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-authz-catalogs-1.0.1-3.i386.rpm
glite-data-io-authz-fas	GLite Data IO FAS Plugin: Use FAS Interface	1.1.3	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-authz-fas-1.1.3-3.i386.rpm
glite-data-io-base	GLite Data IO Base	1.3.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-base-1.3.2-1.i386.rpm
glite-data-io-daemon	GLite Data IO Daemon Server	1.2.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-daemon-1.2.2-2.i386.rpm
glite-data-io-gss-auth	GLite Data IO GSS Authentication QUANTA Plugin	1.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-gss-auth-1.0.0-1.i386.rpm
glite-data-io-protocol-dcap	gLite Data I/O dcap Protocol Plugin	1.1.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-protocol-dcap-1.1.2-2.i386.rpm
glite-data-io-protocol-rfio	GLite Data IO rfio Protocol Plugin	1.3.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-protocol-rfio-1.3.2-1.i386.rpm
glite-data-io-quanta	GLite Data IO Quanta Transport Layer	1.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-quanta-1.0.0-1.i386.rpm
glite-data-io-resolve-catalogs	GLite Data IO Resolve Catalogs Plugin: Use SRM and EDG RLS and RMC	1.2.1	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-resolve-catalogs-1.2.1-3.i386.rpm
glite-data-io-resolve-common	GLite Data IO Resolve Common: Common Functions for GLite IO Resolve Plugins	1.2.4	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-resolve-common-1.2.4-2.i386.rpm
glite-data-io-resolve-fireman	GLite Data IO Resolve FiReMan: implements the GLite IO Resolve Plugin using the FiReMan Combined Catalog	1.3.4	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-resolve-fireman-1.3.4-5.i386.rpm
glite-data-io-resolve-fr	GLite Data IO Resolve FR Plugin: Use SRM and GLite File,Replica and FAS	1.3.4	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-io-resolve-fr-1.3.4-4.i386.rpm



Release Notes

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glite-data-srm-api-c	gLite Data SRM C/C++ API	1.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-srm-api-c-1.1.0-1.i386.rpm
glite-io-server-config	gLite I/O Server node configuration files	2.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-io-server-config-2.0.0-1.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 I/O Server module has the following dependencies:

Component name	Version	RPM file name
gLite Essentials for C/C++	1.1.1	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.i386.rpm
Globus Essentials	VDT-1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.0rh9-1.i386.rpm
GPT	VDT-1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.0rh9-1.i386.rpm
CGSI gSOAP 2.6	1.1.8	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CGSI_gSOAP_2.6-1.1.8-2.slc3.i386.rpm
CASTOR Client (for castor support)	1.7.1.5	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CASTOR-client-1.7.1.5-1.longname.i386.rpm
dCAP Client (for dCache support)	1.6.5	http://www.dcache.org/downloads/IAgree.shtml
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>.

- The gLite I/O and gLite FTS security models conflict. This is being discussed in several coordination bodies. A proposal to harmonize them has been already produced and circulated as part of the updated gLite Architecture document
- glite put/get fails while putting files bigger than 2 Gb. This is due to the CLI failing to read the local file if large file flag are not specified at build time. The problem is being worked on.
- Due to an incompatibility between different Globus versions, it may be necessary to turn off the usage of the client's delegated credentials to contact the catalogs if the version of Globus running on the SRM server is older than the version used by gLite I/O Server. If that is the case, set the value of the "io-authz-catalogs.DisableDelegation" and "io-resolve-common.DisableDelegation" configuration parameters to "true". For more information refer to the gLite Installation Guide.
- 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.
- In addition, since there may be overlaps between different gLite modules, automatic removal of the RPMS files may fail if two or more modules are installed on the same host.
- In order to use gLite I/O Server with some configurations of Castor SEs, the distinguished name of the host where the gLite I/O server is installed, must be included in the /etc/grid-security/grid-mapfile of the Castor SE node.

Known open bugs:

Bug number	Description
#5079	gLite I/O Increase io-quanta timeout
#7006	gLite I/O server doesn't output on stdio a major error condition as Catalog down
#7329	The SSL Configuration parameters for the I/O server are not described in the Installation Guide
#8345	gLite I/O and gLite FTS security models conflict
#8902	No logrotate in IO Server
#8903	Config of I/O Server requires that the same value is entered into 2 parameters (SEHostName and SrmEndPoint)
#9243	glite put/get fails while putting files bigger than 2 Gb.
#10400	gLite I/O server should use VOMS attributes instead of gridmap-file
#10866	glite-put/castor2 odd behaviour
#10906	glite-io-server-config.py does not create service pid file --> fails to stop it

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

Bug number	Description
#7473	High failure rate while reading files from castor
#7548	glite_strerror not documented
#7629	Done (Success) for a job with input data while the glite-get failed
#7812	gLite I/O occasionally fail
#7885	stop option in glite-io-server-config.py
#7988	glite i/o against dcache, dc_open fails. (Wrong arguments?)

#8000	glite-io-server-config.py fails	
#8342	glite-put command	
#8955	glite-io-server deployment script fails if configured w/o uid&gid	
#10318	glite-data-io-protocol-dcap has wrong dep for dCache client RPM	
#10321	glite-data-io-* components cannot be upgraded from R1.3 to R1.4	

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	
#7068	I cannot use glite_put specifying an lfn of 800 characters	
#7797	Possibility to get more instances of the gLite I/O server per 1 VO	
#7827	Spelling mistake in glite-io-server-config.py prevents using io-resolve-fr parameters	
#9690	glite-put error on PPS	
#10737	glite-io-server daemon cannot write in lock folder	
#10882	glite I/O incorrect error message when glite-io-client.properties.xml is missing	