

## GLITE I/O SERVER

### 1. RELEASE DESCRIPTION

This release contains the gLite I/O Server module v. 2.0.0. 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 I/O Server please refer to the gLite Installation and User Guides.

### 2. CHANGES IN THIS RELEASE

This release introduces the following changes:

- This release introduces support for dCache and DPM in addition to Castor SRM
- The configuration script now has a new --configure command line switch to execute the configuration steps only without starting the services. The --start switch must be used to start the services. Running the script without options print usage instructions
- R-GMA Service Publisher parameters updated to use new common conventions (please make sure you use the new configuration templates)
- The following parameters have been changed in the configuration file:

io-resolve-common.SeProtocol (user parameters in each io-server instance).

This parameter was defaulted to rfio in previous versions of the io-server. Now it can be set to one of the available supported protocols

- Various bug fixes

### 3. RELEASE CONTENTS

The gLite I/O Server v. 2.0.0 is composed of the following gLite components:

Component name		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.data-catalog-api.c	gLite Data Catalogs C/C++ API	2.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-catalog-api-c-2.0.0-2.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-catalog-api-c-2.0.0-2.i386.rpm</a>
org.glite.data-catalog.interface	gLite Catalog Interfaces	2.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-data-catalog-interface-2.0.0-6.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-data-catalog-interface-2.0.0-6.noarch.rpm</a>
org.glite.data-config.service	GLite Data Config Service	1.1.8	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-config-service-1.1.8-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-config-service-1.1.8-1.i386.rpm</a>
org.glite.data-io-authz.catalogs	GLite Data IO Authorization Plugin: Use EDG RMC	1.0.1	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-authz-catalogs-1.0.1-2.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-authz-catalogs-1.0.1-2.i386.rpm</a>
org.glite.data-io-authz.fas	GLite Data IO FAS Plugin: Use FAS Interface	1.1.3	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-authz-fas-1.1.3-3.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-authz-fas-1.1.3-3.i386.rpm</a>
org.glite.data-io.base	GLite Data IO Base	1.3.2	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-base-1.3.2-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-base-1.3.2-1.i386.rpm</a>
org.glite.data-io.daemon	GLite Data IO Daemon Server	1.2.2	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-daemon-1.2.2-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-daemon-1.2.2-1.i386.rpm</a>
org.glite.data-io-gss.auth	GLite Data IO GSS Authentication	1.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-gss-auth-1.0.0-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-gss-auth-1.0.0-1.i386.rpm</a>



# Release Notes

Doc. Identifier:  
release\_notes.doc

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	QUANTA Plugin		
org.glite.data-io-protocol.rfio	GLite Data IO rfio Protocol Plugin	1.3.2	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-protocol-rfio-1.3.2-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-protocol-rfio-1.3.2-1.i386.rpm</a>
org.glite.data-io.quanta	GLite Data IO Quanta Transport Layer	1.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-quanta-1.0.0-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-quanta-1.0.0-1.i386.rpm</a>
org.glite.data-io-resolve.catalogs	GLite Data IO Resolve Catalogs Plugin: Use SRM and EDG RLS and RMC	1.2.1	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-catalogs-1.2.1-2.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-catalogs-1.2.1-2.i386.rpm</a>
org.glite.data-io-resolve.common	GLite Data IO Resolve Common: Common Functions for GLite IO Resolve Plugins	1.2.4	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-common-1.2.4-1.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-common-1.2.4-1.i386.rpm</a>
org.glite.data-io-resolve.fireman	GLite Data IO Resolve FiReMan: implements the GLite IO Resolve Plugin using the FiReMan Combined Catalog	1.3.4	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-fireman-1.3.4-4.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-fireman-1.3.4-4.i386.rpm</a>
org.glite.data-io-resolve.fr	GLite Data IO Resolve FR Plugin: Use SRM and GLite File, Replica and FAS	1.3.4	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-fr-1.3.4-3.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-io-resolve-fr-1.3.4-3.i386.rpm</a>
org.glite.data-srm-api.c	gLite Data SRM C/C++ API	1.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-srm-api-c-1.0.0-15.i386.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/i386/RPMS/glite-data-srm-api-c-1.0.0-15.i386.rpm</a>
org.glite.io-server.config	gLite I/O Server node configuration files	1.2.7	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-io-server-config-1.2.7-3.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-io-server-config-1.2.7-3.noarch.rpm</a>
org.glite.io-server.config	gLite I/O Server node configuration files	2.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-io-server-config-2.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-io-server-config-2.0.0-1.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-java-4.1.5-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-api-java-4.1.5-1.noarch.rpm</a>
org.glite.rgma-base	R.GMA basic configuration and documentation	4.1.19	<a href="http://glite.web.cern.ch/glite/packages/R1.2/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-servicetool	R.GMA service tool	4.1.19	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-4.1.19-3.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-4.1.19-3.noarch.rpm</a>
org.glite.rgma-servicetool-config	gLite R.GMA servicetool installation	5.0.0	<a href="http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-config-5.0.0-1.noarch.rpm">http://glite.web.cern.ch/glite/packages/R1.2/R20050715/bin/rhel30/noarch/RPMS/glite-rgma-servicetool-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 I/O Server module has the following dependencies:

Component name	Version	RPM file name
gLite Essentials for C/C++	1.1.1	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.i386.rpm</a>
Globus Essentials	VDT-1.2.2	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.0rh9-1.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.0rh9-1.i386.rpm</a>
GPT	VDT-1.2.2	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.0rh9-1.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.0rh9-1.i386.rpm</a>
CGSI gSOAP 2.6	1.1.8	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CGSI_gSOAP_2.6-1.1.8-2.slc3.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CGSI_gSOAP_2.6-1.1.8-2.slc3.i386.rpm</a>
CASTOR Client (for castor support)	1.7.1.5	<a href="http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CASTOR-client-1.7.1.5-1.longname.i386.rpm">http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CASTOR-client-1.7.1.5-1.longname.i386.rpm</a>
dCAP Client (for dCache support)	1.6.5	<a href="http://www.dcache.org/downloads/IAgree.shtml">http://www.dcache.org/downloads/IAgree.shtml</a>
Java SDK/JRE	1.4.2	<a href="http://java.sun.com/j2se/1.4.2/download.html">http://java.sun.com/j2se/1.4.2/download.html</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>.

- 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
#7757	glite-io-server is not the Computing Element
#8903	Config of I/O Server requires that the same value is entered into 2 parameters (SEHostName and SrmEndPoint)

#8971	The I/O Server necessity for an SRM is a severe restriction that must be changed	
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Bugs fixed in this or previous releases, but not yet tested:

Bug number	Description	

## 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	
#8477	I/O server,when not registered with a SRM machine,fails to run with a generic error	
#8741	cannot put file on gLite prototype	
#9013	gliteIO does not work wioth oracle backend	