

GLITE I/O SERVER

1. RELEASE DESCRIPTION

This release contains the gLite I/O Server module v. 2.1.4. 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 includes the following changes:

- glite-data-io-daemon:

update the file size in the catalog if there is a failure in the connection between the gLite I/O client and the server, EVEN when the file transmission hasn't yet begun (this means that the file size in the Catalog for this situation shall be 0)

Disabled the resetting of port to the min-max port range to be more firewall friendly.

- glite-data-io-protocol-dcap:

RPM dependency on glite-data-io-daemon \geq 2.0.0

- glite-data-io-authz-catalogs:

updated version for the updated dependencies

- glite-data-io-server:

updated version for the updated dependencies

- Use new VO configuration model (all VO parameters are centralized in a separate file for all services)

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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instanceDescription	<code>\${vo.name}-\${init.CatalogType}</code>	<p>A short description of the instance used to create the different instance files</p> <p>[Example: <code>\${vo.name}-\${init.CatalogType}</code>] [Type: string]</p> <p><i>This parameter is a more general way of naming the I/O Server instances. In previous releases the name was forced to be <code>\${vo.name}-\${init.CatalogType}</code>. Now this is the default value, but it can be replaced with any user string</i></p>
autocalculate.port	true	<p>If this value is true, the I/O Server port for each instance is calculated automatically starting from the value of the parameter <code>io-daemon.Port</code>. If the value is false, the <code>io-daemon.Port</code> value is taken without modifications. In this case, users must defined instance to have a different port configured in this file</p>
rgma.servicetool.activate	true	<p>Turn on/off servicetool for the node.</p> <p>[Example: true] [Type: 'boolean']</p>

The following parameters have been changed in the `glite-io-server.cfg.xml` file:

Parameter name	Old value	New value	Description
<code>io-daemon.Port</code>	9999	<p>The value is not changed, but the way this parameter is used is now different. Typically this value is now used as a starting point for calculating the ports for all instances in case the instances are created automatically by iterating on the VO list.</p> <p>If instance are defined manually, the <code>autocalculate.port</code> parameter must be set to false and the desired port number must be set here explicitly.</p>	<p>The port to be used to contact the server.</p> <p>This port is only used for authentication and session establishment messages. When the real data transfer will be performed using a QUANTA paralld TCP stream a pool of sockets are opened on the server side binding a tuple of available ports from 50000 to 51000. This port should not be higher than 9999 and different I/O Server instances should not run on contiguous ports (for example set one to 9999 and another one to 9989). If the <code>autocalculate.port</code> parameter is true or this parameter is absent or empty, the ports are</p>

			automatically set by the configuration script following this rule and starting from 9999. If a value is given and the autocalculate.port parameter is true, the ports are set using the given value as port for the first instance and the other are calculated according to the rule. In all other case the value of this parameter is used without modifications
log.FileName	<code>\${GLITE_LOCATION_LOG}/ glite-io-server- \${instanceDescription}.log</code>	<code>\${GLITE_LOCATION_LOG}/ glite-io-server-\${vo.name}- \${init.CatalogType}.log</code>	The location of the log file

All parameters used to set VO-specific values have been removed from the service configuration files and moved to a dedicated VO configuration file called vo-list.cfg.xml. A template is available in /opt/gLite/etc/config/templates. This file is common to all gLite services running on this node or referenced in the same site-config file (unless locally overridden). For more information please refer to the gLite 1.5 installation guide.

The R-GMA Service Publisher (aka R-GMA servicetool) parameters are now automatically handled by the configuration script and do not need to be explicitly set anymore in the configuration file. The parameters can be set in the configuration file to override the default values.

3. RELEASE CONTENTS

3.1. GLITE SUB-DEPLOYMENT MODULES

The gLite I/O Client 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 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 I/O Server v. 2.1.4 is composed of the following gLite components:



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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-1.6.22-1.noarch.rpm
glite-data-catalog-api-c	gLite Data Catalogs C/C++ API	2.0.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-catalog-api-c-2.0.0-4.noarch.rpm
glite-data-catalog-interface	gLite Catalog Interfaces	2.0.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-catalog-interface-2.0.0-7.noarch.rpm
glite-data-config-service	GLite Data Config Service	1.2.4	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-config-service-1.2.4-1.noarch.rpm
glite-data-io-Authz-catalogs	GLite Data IO Authorization Plugin	1.0.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-Authz-catalogs-1.0.1-4.noarch.rpm
glite-data-io-Authz-fas	GLite Data IO FAS Plugin	1.2.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-Authz-fas-1.2.0-1.noarch.rpm
glite-data-io-base	GLite Data IO Base	2.0.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-base-2.0.0-1.noarch.rpm
glite-data-io-daemon	GLite Data IO Daemon Server	2.0.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-daemon-2.0.2-2.noarch.rpm
glite-data-io-gss-auth	GLite Data IO GSS Authentication QUANTA Plugin	1.0.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-gss-auth-1.0.0-1.noarch.rpm
glite-data-io-protocol-dcap	gLite Data I/O dcap Protocol Plugin	1.1.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-protocol-dcap-1.1.2-3.noarch.rpm
glite-data-io-protocol-rfio	GLite Data IO rfio Protocol Plugin	1.3.3	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-protocol-rfio-1.3.3-4.noarch.rpm
glite-data-io-quanta	GLite Data IO Quanta Transport Layer	1.0.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-quanta-1.0.0-1.noarch.rpm
glite-data-io-resolve-catalogs	GLite Data IO Resolve Catalogs Plugin	1.3.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-resolve-catalogs-1.3.0-1.noarch.rpm
glite-data-io-resolve-common	GLite Data IO Resolve Common	1.3.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-resolve-common-1.3.0-1.noarch.rpm
glite-data-io-resolve-fireman	GLite Data IO Resolve FiReMan	1.4.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-resolve-fireman-1.4.0-1.noarch.rpm
glite-data-io-resolve-fr	GLite Data IO Resolve FR Plugin	1.4.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-io-resolve-fr-1.4.0-1.noarch.rpm
glite-data-srm-api-c	gLite Data SRM C/C++ API	1.1.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-data-srm-api-c-1.1.0-1.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/noarch/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.noarch.rpm
glite-io-server-config	gLite I/O Server configuration files	2.1.4	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-io-server-config-2.1.4-1.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-security-utils-config	gLite Security Utilities configuration files	1.2.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.2.2-1.noarch.rpm

4. DEPENDENCIES

The gLite I/O Server module v. 2.1.4 has the following dependencies:

Component name	Description	Version	File
CGSI_gSOAP_2.6	GSI plugin for gSOAP	1.1.9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CGSI_gSOAP_2.6-1.1.9-1.sl3.noarch.rpm
gpt	The Grid Packaging Toolkit (GPT)	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.noarch.rpm
vdt_globus_essentials	Virtual Data Toolkit	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-1.2.2rh9-1.noarch.rpm

			bus_essentials-VDT1.2.2rh9-1.noarch.rpm
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5. 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>.

- gLite I/O and gLite FTS security models conflict.
Many discussions on design team – hope to finalize by meeting on May 23-25. The update of the architecture document (DJRA1.4) contains a first description of the plan. Depends on dual certificate support – JRA3.
- 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
#5079	gLite I/O Increase io-quanta timeout
#7006	Config Service:gLite I/O server doesn't output on stdout 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
#10400	gLite I/O server should use VOMS attributes instead of gridmap-file
#10906	glite-io-server-config.py does not create service pid file --> fails to stop it

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

Bug number	Description
#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?)
#8903	Config of I/O Server requires that the same value is entered into 2 parameters (SEHostName and SrmEndPoint)
#8955	glite-io-server deployment script fails if configured w/o uid&gid
#12570	I/O server config: tries to configure R-GMA, even if disabled
#12668	gLite I/O server cannot use port higher than 9999
#13886	mismatched tag in security_checks.cfg.xml (IO-SERVER)

6. BUGS CLOSED SINCE LAST RELEASE



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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	
#8000	glite-io-server-config.py fails	
#12541	Glite IO endpoint not configured in the service publisher	
#12571	I/O server config: starts/stops/checks rfio, even if not using	