

GLITE I/O SERVER

1. RELEASE DESCRIPTION

This release contains the gLite I/O Server module v. 1.2.3. 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:

- The I/O Server can be configured to use either specific server certificates or the host certificates
- The I/O Server services are published to an R-GMA Server using the R-GMA Service Publisher tool
- `glite_data_config_status` now correctly returns 1 if the service is stopped, 0 if it's still running
- Various bug fixes

3. RELEASE CONTENTS

The gLite I/O Server v. 1.2.3 is composed of the following gLite components:

Component name	Version	File
org.glite.deployment.io-server	1.2.3	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/installers/glite-io-server_installer.sh http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-io-server-config-1.2.3-1.noarch.rpm
org.glite.deployment.config	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-config-1.0.0-1.noarch.rpm
org.glite.data.catalog-fas-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-fas-api-c-2.0.0-1.i386.rpm
org.glite.data.catalog-file-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-file-api-c-2.0.0-1.i386.rpm
org.glite.data.catalog-fireman-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-fireman-api-c-2.0.0-2.i386.rpm
org.glite.data.catalog-interface	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-data-catalog-interface-2.0.0-6.noarch.rpm
org.glite.data.catalog-replica-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-replica-api-c-2.0.0-1.i386.rpm
org.glite.data.io-Authz-fas	1.1.2	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-Authz-fas-1.1.2-1.i386.rpm
org.glite.data.io-resolve-fireman	1.3.3	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-resolve-fireman-1.3.3-4.i386.rpm
org.glite.data.io-resolve-fr	1.3.3	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-resolve-fr-1.3.3-1.i386.rpm
org.glite.data.config-service	1.1.6	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-config-service-1.1.6-1.i386.rpm
org.glite.data.io-Authz-catalogs	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-Authz-catalogs-1.0.0-1.i386.rpm
org.glite.data.io-base	1.3.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-base-1.3.1-1.i386.rpm

org.glite.data.io-daemon	1.2.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-daemon-1.2.1-1.i386.rpm
org.glite.data.io-gss-auth	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-gss-auth-1.0.0-1.i386.rpm
org.glite.data.io-protocol-rfio	1.3.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-protocol-rfio-1.3.0-1.i386.rpm
org.glite.data.io-quanta	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-quanta-1.0.0-1.i386.rpm
org.glite.data.io-resolve-catalogs	1.2.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-resolve-catalogs-1.2.0-2.i386.rpm
org.glite.data.io-resolve-common	1.2.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-io-resolve-common-1.2.1-1.i386.rpm
org.glite.data.srm-api-c	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-srm-api-c-1.0.0-4.i386.rpm

4. DEPENDENCIES

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

Component name	Version	RPM file name
gLite Security Utilities	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/installers/glite-security-utils_installer.sh http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-security-utils-config-0.6.1-1.noarch.rpm
gLite R-GMA Service Publisher	4.2.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/installers/glite-security-utils_installer.sh
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	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
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>.

- 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	
#7006	gLite I/O server doesn't output on stdio a major error condition as Catalog down	
#6043	errors while simultaneous downloading/retrieving several files via IOserver	
#5079	io-quanta returns "Timeout in Read" trying to create a file of 999999999 bytes size.	

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

Bug number	Description	
#6025	Installation guide for glite/io server should be updated	
#6537	Can't install SRM and gLite on the same box	
#6585	I/O Server configuration script explicitly refers to /home as home directories root	
#7491	glite-io-server-config.py script runs the start servicetool more than once	

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=jralmdw>

Bug number	Description
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7. PREVIOUS RELEASES

7.1. RELEASE 1.1.0

7.1.1. Release Description

This release contains the gLite I/O Server module v. 1.1.0. 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.

7.1.2. Changes in this release

This release introduces the following changes:

- the new version of the catalogs interface and APIs (v. 2.0.0) and the corresponding new functionality to access fireman catalogs and file and replica catalogs from the gLite I/O Server
- the gLite Security Utilities are automatically installed and configured with the gLite I/O Server and do not need to be installed separately anymore
- The gLite init.d script is automatically installed and activated by the configuration scripts to start all gLite I/O Server services (rfio and the glite-io-server service at boot-time)

7.1.3. Release contents

The gLite I/O Server v. 1.1.0 is composed of the following gLite components:

Component name	Version	File
org.glite.deployment.config	0.7.4	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/noarch/RPMS/glite-config-0.7.4-1.noarch.rpm
org.glite.deployment.io-server	1.1.0	http://glite.web.cern.ch/glite/packages/I20050218/installers/glite-io-server_installer.sh http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/noarch/RPMS/ glite-io-server-config-1.1.0-1.noarch.rpm
org.glite.data.catalog-fas-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-catalog-fas-api-c-2.0.0-1.i386.rpm
org.glite.data.catalog-file-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-catalog-file-api-c-2.0.0-1.i386.rpm
org.glite.data.catalog-fireman-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-catalog-fireman-api-c-2.0.0-2.i386.rpm
org.glite.data.catalog-interface	2.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/noarch/RPMS/ glite-data-catalog-interface-2.0.0-6.noarch.rpm
org.glite.data.catalog-replica-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-catalog-replica-api-c-2.0.0-1.i386.rpm
org.glite.data.io-authz-fas	1.1.2	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-io-authz-fas-1.1.2-1.i386.rpm
org.glite.data.io-resolve-fireman	1.3.3	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-io-resolve-fireman-1.3.3-4.i386.rpm
org.glite.data.io-resolve-fr	1.3.3	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/ glite-data-io-resolve-fr-1.3.3-1.i386.rpm

org.glite.data.config-service	1.1.4	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-config-service-1.1.4-1.i386.rpm
org.glite.data.io-authz-catalogs	1.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-authz-catalogs-1.0.0-1.i386.rpm
org.glite.data.io-base	1.3.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-base-1.3.0-1.i386.rpm
org.glite.data.io-daemon	1.2.1	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-daemon-1.2.1-1.i386.rpm
org.glite.data.io-gss-auth	1.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-gss-auth-1.0.0-1.i386.rpm
org.glite.data.io-protocol-rfio	1.3.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-protocol-rfio-1.3.0-1.i386.rpm
org.glite.data.io-quanta	1.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-quanta-1.0.0-1.i386.rpm
org.glite.data.io-resolve-catalogs	1.2.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-resolve-catalogs-1.2.0-2.i386.rpm
org.glite.data.io-resolve-common	1.2.1	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-io-resolve-common-1.2.1-1.i386.rpm
org.glite.data.srm-api-c	1.0.0	http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/i386/RPMS/glite-data-srm-api-c-1.0.0-4.i386.rpm

7.1.4. Dependencies

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

Component name	Version	RPM file name
gLite Security Utilities	0.6.1	http://glite.web.cern.ch/glite/packages/I20050218/installers/glite-security-utils_installer.sh http://glite.web.cern.ch/glite/packages/I20050218/bin/rhel30/noarch/RPMS/glite-security-utils-config-0.6.1-1.noarch.rpm
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	2.6-1.1.5	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/CGSI_gSOAP_2.6-1.1.5-1.i386.rpm
CASTOR Client	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

7.1.5. 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>.

- 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 distinguish 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.
- By default the gLite I/O Server service is configured to use the host certificates, which are copied to the home directory of the user running the service. However in some cases, it must be necessary to use specific service certificates. In this case the certificates have to be installed manually and the X509_USER_CERT and X509_USER_KEY env vars have to be defined manually before starting the I/O Server service. This is fixed in the next release.

Known open bugs:

Bug number	Description	
#6043	errors while simultaneous downloading/retrieving several files via IOserver	
#6837	There are no test reports provided for the I/O Server in gLite v1.0.6 RC1 (Integration Build I20050204)	
#6928	Services should publish to the Service table	
#7006	gLite I/O server doesn't output on stdio a major error condition as Catalog down	

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

Bug number	Description	
#5846	check for host certs is done in any case	
#5847	parameters are not identified by options for catalogues	
#6025	Installation guide for glite/io server should be updated	
#6585	I/O Server configuration script explicitly refers to /home as home directories root	
#6832	While installing the IO server the following library liblog4cxx.so.9 is found missing	

7.1.6. 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>