

GLITE MIDDLEWARE

1. RELEASE DESCRIPTION

This release contains the gLite Middleware v. 1.4.0. The following sections provide additional information about the release content, the module dependencies and known issues. The gLite Middleware is a suite of several gLite Services and clients. Please refer to the individual gLite Services and Clients release notes for additional information. For information about installing and using the gLite Middleware, please refer to the gLite Installation and User Guides.

2. CHANGES IN THIS RELEASE

This release is the General Availability (GA) gLite v 1.4.0.

In this release all components have been updated with bug fixes found since the previous release. In addition the following major new functionality is included:

- New WMProxy, LBProxy and R-GMA Purchaser in WMS
- SRMCopy support in File Transfer Agents
- File Transfer Service and Agents for MySQL
- VOMS Core and Admin tools for Oracle
- New GlueArchiver in R-GMA
- Use of Service Discovery in gLite I/O Client
- First release of DGAS Server and Client

3. RELEASE CONTENTS

The gLite Middleware v. 1.4.0 is composed of the following gLite modules:

| Module name | Version | File |
|--------------------------------------|----------|---|
| gLite Computing Element | v. 2.1.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-ce/release_notes.doc |
| gLite DGAS Client | v. 1.0.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-dgas-client/release_notes.doc |
| gLite DGAS Server | v. 1.0.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-dgas-server/release_notes.doc |
| gLite File Transfer Agents | v. 2.0.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-file-transfer-agents/release_notes.doc |
| gLite File Transfer Service | v. 3.0.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-file-transfer-service/release_notes.doc |
| gLite File Transfer Service Client | v. 1.1.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-file-transfer-service-client/release_notes.doc |
| gLite I/O Client | v. 2.1.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-io-client/release_notes.doc |
| gLite I/O Server | v. 2.0.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-io-server/release_notes.doc |
| gLite Logging and Bookkeeping Server | v. 2.0.2 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-lb/release_notes.doc |
| gLite R-GMA Client | v. 5.1.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-rgma-client/release_notes.doc |

| | | |
|---|----------|---|
| gLite R-GMA GIn | v. 5.0.2 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-rgma-gin/release_notes.doc |
| gLite R-GMA Server | v. 5.1.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-rgma-server/release_notes.doc |
| gLite R-GMA Service Publisher | v. 5.1.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-rgma-servicetool/release_notes.doc |
| gLite Security Utilities | v. 1.0.6 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-security-utils/release_notes.doc |
| gLite Service Discovery APIs | v. 1.1.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-service-discovery/release_notes.doc |
| gLite Single Catalog for MySQL | v. 2.0.2 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-data-single-catalog/release_notes.doc |
| gLite Single Catalog for Oracle | v. 2.0.2 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-data-single-catalog-oracle/release_notes.doc |
| gLite Stand-Alone Metadata Catalog for MySQL | v. 2.0.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-data-metadata-catalog/release_notes.doc |
| gLite User Interface | v. 1.2.2 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-ui/release_notes.doc |
| gLite VOMS Server and Admin Tools for MySQL | v. 2.1.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-voms-server-mysql/release_notes.doc |
| gLite VOMS Server and Admin Tools for Oracle | v. 2.1.0 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-voms-server-oracle/release_notes.doc |
| gLite Worker Node | v. 2.2.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-wn/release_notes.doc |
| gLite Workload Management System | v. 2.1.4 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-wms/release_notes.doc |
| Torque + Maui Server for the gLite Computing Element Node | v. 2.1.2 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-torque-server/release_notes.doc |
| Torque Client for the gLite Worker Nodes | v. 2.0.1 | http://glite.web.cern.ch/glite/packages/R1.4/R20050916/doc/glite-torque-client/release_notes.doc |

4. PREREQUISITE AND DEPENDENCIES

The gLite modules have a number of pre-requisites. All information can be found on the individual modules release notes and the gLite Installation Guide.

For a list of the external dependencies, please refer to the individual gLite Service and Clients release notes.

5. KNOWN ISSUES

The known issues with each module in this release are detailed in the individual release notes. The most important issues are:

- **CE Server:** Currently jobs get a full proxy rather than a restricted one as done in LCG. This is needed for multi-hop submission (as e.g. to condor pools but also eventually for CE – CE

submission). Security implications need to be better understood. Currently being discussed in the MWSCG

- **File Transfer Service:** 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
- **Fireman Catalog for Oracle:** Oracle Fireman timeouts with large number of clients. The issue is being investigated. So far it could be only randomly reproduced. It may be related to a race-condition in axis
- **Fireman Catalog for Oracle:** the SEIndex service fails with an InternalException error. This means that data location cannot be done against an Oracle Fireman catalog (for example when submitting jobs with data input requirements)
- **I/O Server:** 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
- **I/O Server:** 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.
- **R-GMA Server:** when using multiple registries the archivers are inconsistent. Since the result of registry replication can produce unreliable results, it is recommended not to use more than one registry per R-GMA domain
- **VOMS Admin for Oracle:** The VOMS Admin tools for Oracle have a known problem with database connections and may refuse to accept new user registrations after some time of operation
- **WMS Server:** Jobs submitted with RetryCount set to 0 are resubmitted multiple times without visible reason. Currently being investigated.
- **WMS Server:** Currently jobs get a full proxy rather than a restricted one as done in LCG. This is needed for multi-hop submission (as e.g. to condor pools but also eventually for CE – CE submission)
- **WMS Server:** The current release doesn't support shallow resubmission. This will be added in future releases
- **WMS Server:** The default service name for locating StorageIndex services in the information service (BD-II) during matchmaking is wrong. It is set to SIndex instead of org.glite.SEIndex. The value can be overridden by setting the property

```
SiServiceName = org.glite.SEIndex;
```

in the WorkloadManager section of the glite_wms.conf file. This is not necessary if an endpoint is specified using the StorageIndex tag in the jdl

6. ISSUES CLOSED SINCE LAST RELEASE

For a list of the closed bugs and issues, please refer to the individual gLite Services and Clients release notes.

7. LICENSING



Release Notes

Doc. Identifier:
release_notes.doc

Date: **16/09/2005**

All gLite code is open source and developed as part of the EU-funded EGEE project. For more information on the licence and copyright statements, please refer to the EGEE web site. The licence can be found at <http://public.eu-egee.org/license/license2.html> .