

GLITE DATA MANAGEMENT FILE TRANSFER SERVICE CLIENT

1. RELEASE DESCRIPTION

This release contains the gLite Data Management File Transfer Service Client module v. 1.1.0. The following sections provide additional information about the release content, the module dependencies, the known bugs and issues and a list of bugs closed since the previous release. For information about installing and using the gLite Data Management File Transfer Service, please refer to the gLite Installation and User Guides.

2. CHANGES IN THIS RELEASE

The main changes in this release are:

- The service interface was changed: the FPS interface was merged into the FTS interface, but FTS stayed backward compatible with R1.3. No changes were done in the client
- There is a new FileTransferStats interface to ease the query of statistical information of the transfers. The interface changes have been synched on the client and new commands added for the statistical interface.
- The FPS submit command was merged into the FTS submit command (file-placement-submit is now file-transfer-submit-placement)
- The installation and configuration scripts have been modified to allow user installation (non root) as all other client modules.

3. RELEASE CONTENTS

The gLite Data Management File Transfer Service Client v. 1.1.0 is composed of the following gLite components:

Component name	Description	Version	File
glite-config	gLite configuration scripts	1.4.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-config-1.4.2-1.noarch.rpm
glite-data-transfer-api-c	GLite Data Transfer C/C++ API	3.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-transfer-api-c-3.1.0-1.i386.rpm
glite-data-transfer-cli	Data Transfer CLI	3.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-transfer-cli-3.1.0-3.i386.rpm
glite-data-transfer-interface	gLite Transfer Interfaces	3.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-data-transfer-interface-3.1.0-3.noarch.rpm
glite-data-util-c	Data C util libraries	1.1.4	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-data-util-c-1.1.4-1.i386.rpm
glite-file-transfer-service-client-config	gLite File Transfer Service client installation	1.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-file-transfer-service-client-config-1.1.0-1.noarch.rpm
glite-rgma-api-c	C API for R-GMA	4.1.13	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-api-c-4.1.13-1.i386.rpm
glite-rgma-api-cpp	C++ API for R-GMA	4.1.15	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-rgma-api-cpp-4.1.15-1.i386.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 and configuration 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-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	1.0.4	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-security-utils-config-1.0.4-1.noarch.rpm
glite-security-voms-api-c		1.6.3	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-security-voms-api-c-1.6.3-0.i386.rpm
glite-service-discovery-api-c	C API for Service Discovery.	2.0.1	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-service-discovery-api-c-2.0.1-0.i386.rpm
glite-service-discovery-api-java		2.0.1	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-service-discovery-api-java-2.0.1-1.noarch.rpm
glite-service-discovery-bdii-c	BDII based Service Discovery	2.0.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-service-discovery-bdii-c-2.0.2-1.i386.rpm
glite-service-discovery-cli	Service Discovery CLI	2.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-service-discovery-cli-2.0.0-1.i386.rpm
glite-service-discovery-config	gLite Service Discovery installation	1.1.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-service-discovery-config-1.1.0-1.noarch.rpm
glite-service-discovery-file-c	File based Service Discovery	2.0.0	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-service-discovery-file-c-2.0.0-1.i386.rpm
glite-service-discovery-rgma-c	C API for Service Discovery.	2.0.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/i386/RPMS/glite-service-discovery-rgma-c-2.0.2-0.i386.rpm
glite-service-discovery-rgma-java		2.0.2	http://glite.web.cern.ch/glite/packages/R1.4/R20050916/bin/rhel30/noarch/RPMS/glite-service-discovery-rgma-java-2.0.2-1.noarch.rpm

4. DEPENDENCIES

The gLite File Transfer Service Client module v. 1.1.0 has the following dependencies:



Release Notes

Doc. Identifier:
release_notes.doc

Date: 16/09/2005

Component name	Version	RPM file name
CA Certificates	Automatic	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/ca_*-xxx-1.noarch.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
EDG mkgridmap script	2.5.1	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/edg-mkgridmap-2.5.1-1.noarch.rpm
fetch-curl	2.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/fetch-curl-2.0-1.noarch.rpm
gLite Essentials for C++	1.1.1	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-essentials-java-1.1.1-1_EGEE.i386.rpm
gLite Essentials for Java	1.2.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-essentials-java-1.2.0-2_EGEE.noarch.rpm
GPT	VDT 1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.i386.rpm
Java JRE/SDK	1.4.2	http://java.sun.com/j2se/1.4.2/download.html
mkgridmap conf file	2.4.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-mkgridmap-conf-2.4.2-1.noarch.rpm
mkgridmap script	2.4.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/glite-mkgridmap-2.4.2-1.noarch.rpm
Oracle InstantClient	>= 10.1.0.4	http://www.oracle.com/technology/software/tech/oci/instantclient/htdocs/linuxsoft.html
perl-Convert-ASN1	0.18	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Convert-ASN1-0.18-0.dag.rhel3.noarch.rpm
perl-Crypt-SSLeay	0.51	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Crypt-SSLeay-0.51-4.i386.rpm
perl-IO-Socket-SSL	0.94	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-IO-Socket-SSL-0.94-0.dag.rhel3.noarch.rpm
perl-Net-LDAP	0.2701	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-LDAP-0.2701-0.dag.rhel3.noarch.rpm
perl-Net-SSLeay	1.23	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-SSLeay-1.23-0.dag.rhel3.i386.rpm
perl-Term-ReadKey	2.20	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Term-ReadKey-2.20-12.i386.rpm
VDT Globus Essentials	VDT 1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_essentials-VDT1.2.2rh9-1.i386.rpm
VDT Globus Info Essentials	VDT 1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vdt_globus_info_essentials-VDT1.2.2rh9-1.i386.rpm

The Oracle InstantClient libraries and executables are not freely redistributable and are not included with this release. The four RPMS have to be downloaded from the Oracle web site and installed on the system before installing the gLite File Transfer Service module.

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
- 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
#9203	FTS: Would be useful to have a view of ongoing transfers
#9499	FTS - Client ignores invalid host certificate.
#9787	FTS: submitting a transfer without a proxy gives a SOAP exception
#9938	FTS: BDII generic information needed (SD is not sufficient).
#9939	FTS: Need to finish BDII integration
#10209	FTS: client should catch SOAP exception if service is down
#10279	FTS: glite-transfer-submit produce out of memory if the job description file is empty
#10280	FTS: glite-transfer-submit does not detect absence of destination SURL
#10320	FTS: client specifies the number of retries
#10436	FTS: errors in FTS CLI not signalled as such
#10510	FTS: glite-transfer-list returns the same job id status multiple times
#10572	FTS : CLI does not actually do what it says...

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

Bug number	Description
#8588	FTS: CLI transfer-submit option -g produces Out of memory.
#8589	FTS: transfer-submit -f FILE doesn't recognize newline as delimiter
#8713	FTS: when FTS is misconfigured, the client gets obscure error messages
#8795	FTS: any glite-transfer-channel-set command sets the channel Active
#8913	FTS: channel-set CLI should should allow Halted, Drain and Stopped
#9032	FTS: primary timeout doesn't work on FTS url-copy when SRM fails on putDone
#9036	FTS: the version reported by the CLI from the webservice is incorrect
#9166	FTS: No simple way to list all requestID's in a state
#9181	FTS: service restart does not always restart FTS agent
#9191	FTS: CLI tools need timeouts
#9261	FTS: summary of what hapenning on a channel
#9309	FTS: dCache returns error on gridftp call, but glite-url-copy doesn't see it?
#9789	FTS: submit command always prompts for the myproxy password
#9812	FTS: perl APIs should work
#9821	FTS: Client code libraries should not expose FilePlacement or TransferFetcher interface
#9828	FTS: services.xml with wrong XML syntax makes glite-transfer commands to hang forever
#9943	FTS: clients report "Missing SD plugin" if any plugin fails

#9952	FTS: submit client should ask for MyProxy password twice
#10201	FTS: glite-transfer-channel-add usage needs to be updated
#10236	FTS: getroles CLI segfaults
#10362	cannot submit fts jobs using delegated proxies

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
#7517	FTS: rename FilePlacement of FileTransfer, fps -> fts
#7594	FTS: should migrate all components to FileTransfer interface
#7596	FTS: Commandline tools should be tested fully against service
#8365	FTS: Command Lines need service resolution from BDII
#8486	FTS: submit commandline doesn't accept myproxy password
#8503	FTS: detailed transfer-status commandline doesn't work correctly
#8504	FTS: failure message for channel-list could be better
#8538	FTS: channel-set -S Active does not work.
#8592	FTS: command-line and java service misspelling of Canceling and Canceled
#8708	FTS: transfer-cli tools should not depend on catalog-cli tools
#8711	FTS: CLI status cannot parse Waiting or Hold states
#9237	FTS: glite-transfer-list should have -a option
#9622	FTS: glite-transfer-channel-list command from the UI hangs forever
#9969	Java and Perl FTS APIs not installed in WN
#10207	FTS: rgma service discovery configuration fails
#10248	FTS: 1.3: getRoles CLI has problems
#10250	FTS: 1.3: Timestamp problem on submitTime
#10529	FTS: get a SOAP exception if using Channel endpoint to submit jobs