

GLITE WORKLOAD MANAGEMENT SYSTEM

1. RELEASE DESCRIPTION

This release contains the gLite Workload Management System module v. 2.2.5. 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 Workload Management System, please refer to the gLite Installation and User Guides.

2. CHANGES IN THIS RELEASE

2.1. CHANGES IN FUNCTIONALITY

- A shallow resubmission mechanism has been introduced to allow job resubmission in case the job didn't run
- Use of LBProxy is now fully activated
- Added integration between WMS and GPBox in the helper component
- New JobWrapper handling
- Use of secure connection to DLI catalogs
- Support for new JDL format for Data requirements
- Added support for job files perusal
- Added support for tar-gzipped sandboxes
- Added proxycache purger program and periodic cron job
- Added support for submission of all DAG nodes to the same CE
- Applied changes to improve performance of bulk submission
- Import of new delegation WSDL
- Migration to boost 1.32.0
- Migration of web services to axis 1.2.1 and gsoap 2.7.6b
- 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-wms.cfg.xml file:

Parameter name	Default value	Description
gpbox.hostname	<changeme>	Hostname of the GPBox server that manages policies for this WMS. Leave this parameter empty or comment it out to disable policy management. [Example: gpbox.cern.ch][Type: string]
rgma.servicetool.activate	true	Turn on/off R-GMA Service Publishing for the WMS services. [Example: true] [Type: 'boolean']

set.mysql.root.password	false	If this parameter is true, then the root password of the mysql database is set to the value specified in mysql.root.password if it not yet set. This parameter has no effect if the database root password is already set. It can be used to ease automated installation and configuration of the service, if mysql is not managed in some other way
wmproxy.MinPerusalTimeInterval	10	Integer representing the minimum number of seconds between two subsequent savings of job files for perusal. If this parameter is not specified a default value is 10 secs is used. [Example: 10][Type: integer][Unit: seconds]
gpbox.port.number	6699	Port number of the GPBox server that manages policies for this WMS. [Example: 6699][Type: integer]
condor.ENABLE_GRID_MONITOR	true	Enables the grid monitor. It must be set to true if this WMS node submits to LCG CEs. Valid values are true or false. [Example: true][Type: boolean]
wms.si.service.type	org.glite.SEIndex	Service type of the gLite SEIndex service. Used in locating replicas with Fireman catalogs
wms.dli.service.type	data-location-interface	Service type of the LFC DLI service. Used in locating replicas with LCG catalogs

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 WMS module requires the following sub-modules:

- gLite Security Utilities
- gLite R-GMA Servicetool

- gLite R-GMA Client
- gLite Service Discovery

The sub-modules are automatically installed with the WMS module. For more information about these sub-modules please refer to the specific release notes and installation instructions.

3.2. GLITE RPMS

The gLite Workload Management System v. 2.2.5 is composed of the following gLite components:

Component name	Description	Version	File
glite-ce-monitor-client-api-c	Gsoap api for CE monitor client	1.5.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-ce-monitor-client-api-c-1.5.1-0.i386.rpm
glite-ce-wsdl	CE wsdl	1.5.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-ce-wsdl-1.5.1-1.noarch.rpm
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-essentials-cpp	Essential C/C++ libraries for gLite software	1.1.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-essentials-cpp-1.1.1-1_EGEE.i386.rpm
glite-gpbox-gsilib		1.0.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-gpbox-gsilib-1.0.9-1.i386.rpm
glite-gpbox-pep		1.0.7	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-gpbox-pep-1.0.7-1.i386.rpm
glite-jp-client		1.0.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-jp-client-1.0.1-1.i386.rpm
glite-jp-common		1.1.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-jp-common-1.1.0-1.i386.rpm
glite-lb-client	L&B client API and tools	2.1.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-lb-client-2.1.1-1.i386.rpm
glite-lb-client-interface	L&B client library header files	2.1.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-lb-client-interface-2.1.0-1.i386.rpm
glite-lb-common	L&B common subroutines library	3.0.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-lb-common-3.0.1-1.i386.rpm
glite-lb-logger	L&B local logger	1.2.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-lb-logger-1.2.1-1.i386.rpm
glite-lb-proxy	L&B Proxy server	1.2.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-lb-proxy-1.2.2-0.i386.rpm
glite-lb-server-bones	L&B server bones	2.1.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-lb-server-bones-2.1.1-1.i386.rpm
glite-rgma-client-config	gLite R-GMA client installation	5.2.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-rgma-client-config-5.2.0-1.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-gsoap-plugin	gSOAP plugin and gss libraries	1.2.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-gsoap-plugin-1.2.1-0.i386.rpm
glite-security-lcmaps	Local Credential MAPPING Service	1.2.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-lcmaps-1.2.9-1.i386.rpm



Release Notes

Doc. Identifier:
release_notes.doc

Date: 20/01/2006

	(LCMAPS)		
glite-security-lcmaps-interface	Public interface to LCMAPS	1.2.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-lcmaps-interface-1.2.9-1.i386.rpm
glite-security-lcmaps-interface-without-gsi	Public interface to LCMAPS	1.2.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-lcmaps-interface-without-gsi-1.2.9-1.i386.rpm
glite-security-lcmaps-plugins-basic	The basic plugins for LCMAPS	1.2.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-lcmaps-plugins-basic-1.2.9-1.i386.rpm
glite-security-lcmaps-plugins-voms	The VOMS plugins for LCMAPS	1.2.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-lcmaps-plugins-voms-1.2.9-1.i386.rpm
glite-security-lcmaps-without-gsi	Local Credential MAPping Service (LCMAPS)	1.2.9	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-lcmaps-without-gsi-1.2.9-1.i386.rpm
glite-security-proxyrenewal	Proxy renewal daemon	1.0.14	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-proxyrenewal-1.0.14-1.i386.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
glite-security-voms-api-c		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-api-c-1.6.10-0.i386.rpm
glite-security-voms-api-cpp		1.6.10	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-security-voms-api-cpp-1.6.10-0.i386.rpm
glite-service-discovery-config	gLite Service Discovery installation	1.1.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-service-discovery-config-1.1.1-1.noarch.rpm
glite-wms-broker	Files for gLite wms broker	1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-broker-1.5.2-1.i386.rpm
glite-wms-brokerinfo	Files for gLite wms brokerinfo	1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-brokerinfo-1.5.2-1.i386.rpm
glite-wms-brokerinfo-access	Brokerinfo access	1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-brokerinfo-access-1.5.0-1.i386.rpm
glite-wms-checkpointing	WMS checkpointing module	1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-checkpointing-1.5.0-1.i386.rpm
glite-wms-classad_plugin	Files for gLite wms classad_plugin	1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-classad_plugin-1.5.0-1.i386.rpm
glite-wms-common	Files for gLite wms common	1.5.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-common-1.5.1-1.i386.rpm
glite-wms-config	gLite WMS Configuration files	2.2.5	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-config-2.2.5-1.noarch.rpm
glite-wms-configuration		1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-configuration-1.5.2-1.i386.rpm
glite-wms-helper		1.5.6	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-helper-1.5.6-1.i386.rpm
glite-wms-interactive		1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-interactive-1.5.0-1.i386.rpm
glite-wms-ism	Files for gLite wms ism	1.5.4	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-ism-1.5.4-1.i386.rpm
glite-wms-jdl		1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-jdl-1.5.2-1.i386.rpm

glite-wms-jobsubmission	WMS job submission module	1.5.4	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-jobsubmission-1.5.4-1.i386.rpm
glite-wms-manager	WMS manager service	1.5.7	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-manager-1.5.7-1.i386.rpm
glite-wms-manager-ns-commands		1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-manager-ns-commands-1.5.2-1.i386.rpm
glite-wms-manager-ns-common		1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-manager-ns-common-1.5.0-1.i386.rpm
glite-wms-manager-ns-daemon		1.5.4	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-manager-ns-daemon-1.5.4-1.i386.rpm
glite-wms-matchmaking		1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-matchmaking-1.5.2-1.i386.rpm
glite-wms-partitioner		1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-partitioner-1.5.0-1.i386.rpm
glite-wms-purger		1.5.5	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-purger-1.5.5-1.i386.rpm
glite-wms-rls		1.5.0	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-rls-1.5.0-1.i386.rpm
glite-wms-thirdparty-bypass		2.5.5	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-thirdparty-bypass-2.5.5-1.i386.rpm
glite-wms-thirdparty-globus_gridftp_server		1.5.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-thirdparty-globus_gridftp_server-1.5.2-1.i386.rpm
glite-wms-utils-exception		1.0.3	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-utils-exception-1.0.3-1.i386.rpm
glite-wms-utils-jobid		1.0.2	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-utils-jobid-1.0.2-1.i386.rpm
glite-wms-utils-tls		1.0.3	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-utils-tls-1.0.3-1.i386.rpm
glite-wms-wmproxy	Files for gLite WMS WMPProxy Service	1.5.6	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/i386/RPMS/glite-wms-wmproxy-1.5.6-1.i386.rpm
glite-wms-wmproxy-interface	WMPProxy wsdl	1.5.1	http://glite.web.cern.ch/glite/packages/R1.5/R20051130/bin/rhel30/noarch/RPMS/glite-wms-wmproxy-interface-1.5.1-1.noarch.rpm

4. DEPENDENCIES

The gLite Workload Management System module v. 2.2.4 has the following dependencies:

Component name	Description	Version	RPM file name
boost	Boost C++ libraries	1.32.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/boost-1.32.0-1_EGEE.i386.rpm
c-ares	A library that performs asynchronous DNS operations	1.3.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/c-ares-1.3.0-1.slc3.i386.rpm
condor	Condor 6.7.10	6.7.10	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/condor-6.7.10-1.i386.rpm
edg-replica-manager-client-cpp_gcc3_2_2-norgma_suite	Package containing all edg libraries used by edg-replica-manager-client-cpp	2.3.1	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/edg-replica-manager-client-cpp_gcc3_2_2-norgma_suite-2.3.1-1_sl3_EGEE.i386.rpm
fcgi	The FastCGI development kit	2.4.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/fcgi-2.4.0-1_EGEE.i386.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.i386.rpm
httpd	The httpd Web server	2.0.46	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/httpd

			pd-2.0.46-56.ent.i386.rpm
j2re	Java JRE	1.4.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/j2re-1_4_2_08-linux-i586.rpm
mod_fastcgi	FastCGI module for Apache	2.4.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/mod_fastcgi-2.4.2-1_EGEE.i386.rpm
myproxy	Credential repository for the Grid.	1.14	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/myproxy-1.14-EGEE.i386.rpm
MySQL-client	MySQL - Client	4.1.11	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-client-4.1.11-0.i386.rpm
MySQL-server	MySQL	4.1.11	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/MySQL-server-4.1.11-0.i386.rpm
perl-Expect.pm	Expect.pm module for perl	1.01	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Expect.pm-1.01-9.i386.rpm
vd_t_globus_essentials	Virtual Data Toolkit	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vd_t_globus_essentials-VDT1.2.2rh9-1.i386.rpm
vd_t_globus_info_essentials	Virtual Data Toolkit	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vd_t_globus_info_essentials-VDT1.2.2rh9-1.i386.rpm
vd_t_globus_sdk	Virtual Data Toolkit	VDT1.2.2rh9	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/vd_t_globus_sdk-VDT1.2.2rh9-1.i386.rpm

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>.

- Jobs submitted with RetryCount set to 0 are resubmitted multiple times without visible reason. The most likely cause of this issue is that the request for job submission (*not* resubmission) is considered several times if the wm dies between the time it passes a request to the Job Controller and the time it removes it from its persistent input queue. A new recovery procedure based on the LBProxy has been implemented, but it's still being tested.
- Tuning of job submission chain.
A better tuning of job submission parameters for Condor is required. This is under investigation
- There seems to be a memory leak in the 1.4 WMS.
After submitting a few thousands jobs over a three days period, the memory consumption constantly increase.
- org.glite.wms.jobsubmission mixes shared and static libraries.
This issue prevents correct builds on ia64 platforms
- SLC3 provides a custom boost RPM package that doesn't contain all the boost flavours and doesn't contain the standard versioned links to .so libraries. This RPM is not compatible at the moment with WMS. In order to install WMS on SLC3 it is necessary to remove the SLC3 boost package and use the boost package distributed with gLite. If APT is used it is suggested to temporarily disable the slc3 source file in the APT source directory.

Known open bugs:

Bug number	Description



Release Notes

Doc. Identifier:
release_notes.doc

Date: 20/01/2006

#4588	all but two wms rpms have 0.0.0.0 version numbers and no summary	
#8998	Job gets Aborted by WMS many times without obvious reason	
#9127	WMS could not exit from strange status	
#9194	Missing information from logs	
#9391	Aborted jobs stay a long time in the CE queues	
#9609	Jobs should be rejected if proxy renewal can't succeed	
#10058	After upgrading the WMS from 1.2 to 1.3 an error occurs when starting up the service	
#10800	WMS UI error reporting needs to be improved	
#10803	WMS C++ API crashes when using getStatus() method	
#10917	CurrentStep attribute has no effect for checkpointable jobs	
#11704	WM crashes if ism_dump contains entry purchased from rgma and the rgma purchaser is disabled	
#11765	1.4 WMS can either work with the bdi or with the rgma purchaser, but NOT with both	
#12742	There seems to be a memory leak in the 1.4 WMS	
#13451	DLI - LFC interface for InputData not working for	
#13457	proxy renwal daemon CPU usage on the gL 1.4.1 WMS node	
#13469	It is not clear how to restart the WMS in the case of a heavy jobs load in condor	
#13477	WMS components should use only one logging time format	
#13494	ARC job submitter.	
#13495	Job Wrapper	
#13544	NS crash with Rank = other.DataAccessCost;	
#13721	Matchmaking should support the VOView values in Glue 1.2	
#13734	Segmentation fault with glite-job-submit when using different WMS and LB	
#13784	VOname ignoed in B-schedds (CE) name: job ownership not correct on the CE	
#13893	timeout variable can be used uninitialized during a listmatch	
#13902	Bad LB events logged on user-initiated job cancel	
#13930	The glite-wms-ns init.d script has wrong default value for GLITE_LOCATION	
#13963	WMS - VOMS_Contact() failed while proxy-renewal	
#13987	WMS: VOMS: only a single voms server per VO is contacted	
#14058	glite-job-submit fails with "Unable to read data" error for jobs having non-empty InputSandbox	
#14080	org.glite.wms.ism mixes shared and static libraries	
#14084	org.glite.wms.brokerinfo mixes shared and static libraries	
#14085	org.glite.wms.brokerinfo spec file does not work on IA64	
#14087	org.glite.wms.matchmaking should always produce PIC code	
#14088	org.glite.wms.helper mixes shared and static libraries	
#14089	org.glite.wms.wmproxy does not recognize globus flavor	
#14090	org.glite.wms.wmproxy-api-cpp does not recognize globus flavor	
#14091	org.glite.wms.client does not recognize globus flavor	
#14105	WMS CLI crashes when submitting job (if missing VOMS server cert at the WMS/LB node)	
#14148	output retrieval not allowed for DONE (Exit code!=0)	
#14206	Mpi job fails	

#14234	hard coded references to gpbox at CNAF in glite_wms.conf on WMS	
#14237	WMProxy returns an already set attribute error if PerusalTimeInterval attribute is provided via jdl	
#14258	Wrong PerusalFilesDestURI and PerusalListFileURI attributes format inserted in submitting jdl by WMProxy	
#14302	It should be possible to deploy the WMS in one box while having all the dynamic information on a disk server	
#14317	NS getting "frozen" during a minimal storm of jobs	
#14321	There is no check that the result of a query to the LB can be NULL	
#14354	Broker failover doesn't always work	
#14370	Fuzzy rank doesn't work	
#14378	A interactive job doesn't work	
#14379	Job with stdout but not stderr doesn't work	
#14389	Interactive jobs: shadow process not properly handled	
#14397	WMProxy getOutputFileList operation checks for output files also for dag and collection type	

Fixed in this release, but not yet fully tested or reviewed:

Bug number	Description	
#6682	Problems with input data based matchmaking	
#7097	Wrong status (or error message) if file does not exist in StorageIndex	
#7171	WMS startup fails with "Configuration problem: cannot parse configuration"	
#7203	We cannot run interactive jobs	
#7227	Matching fails if the StorageIndex string is embedded in curly braces	
#7490	GLITE_LOCATION on the Prototype	
#8499	WMS UI links different flavors of the same Globus libs	
#8500	Long DAGs fail with Cannot Parse ClassAd error on WMS	
#8628	WMS: Configuration script fails (only the first run) after changing the glite.user.name	
#8637	the system doesn't tell you where you find the output of a DAG job	
#8640	WMS: running process mixed-up after change in upgrade of 'glite.user.name'	
#8786	Support for shallow resubmission	
#8899	Step Weight is ignored by the NS (unknown)	
#9030	api-cpp subission&status cascade crashes	
#9031	secure connection to data catalog during list match	
#9040	org.glite.wms.client: Segmentation fault in case of unrecognized option	
#9087	memory error in VOMSAuthZ instance creation	
#9136	glite-wms-job-cancel : the same question twice	
#9137	glite-wms-job-output/cancel: wrong check of the jobid syntax	
#9139	glite-wms-job-list-match: error message for jobs that are not supported	
#9140	glite-wms-job-cancel: - - input option	
#9256	Incompatibility between gLite jobwrapper and LCG WNs - wrong env. variable	

#9522	WMProxy purge operation doesn't properly log PURGED event for DAG nodes	
#9541	jdl4java: special attributes removed from the jdl	
#9545	Log monitor crashes on failed DAG removal.	
#9628	Empty BrokerInfo file created by the WM for parametric and DAG job submissions	
#9634	JDL for collections:node descriptions are not loaded from files	
#9753	No glite-wms-job-status available	
#9757	Timeout setting ignored for DLI connections.	
#9759	org.glite.wms.client(glite-wms-job-output): purge for DAG-children	
#9760	org.glite.wms.client(glite-wms-job-output):out-file retrieving for a DAG with exit code != 0	
#9761	org.glite.wms.wmproxy: no function to clean WMPROXY-ProxyCache	
#9762	org.glite.wms.client(glite-wms-job-submit):no possibility to ask for file transferring with --register-only	
#9768	WMProxy fails in catching standard exceptions	
#9805	Wrong error messages during the uploading of output files when wmproxy is used	
#9822	Submitting an empty DAG is not treated as an error	
#9823	-r option is ignored when submitting collections or parameterized jobs	
#9900	InputSandbox Parameter not inherited by nodes in a DAG	
#9957	Rank and Requirements are not defaulted in the {pre post}jobs in a partitionable job	
#9960	glite-job-submit segfaults if JobType is not set as checkpointable in a postjob	
#9963	Workload Manager hangs if the ism purchaser has too many grises to contact	
#9964	Missing GlueCESEBindCEAccessPoint value in the brokerinfo file	
#9973	WMproxy UI configuration ignores VO	
#9974	SandboxStagingPath for NS and WMSproxy set to different values	
#9985	Uncaught exception in WMProxy for short cert subj	
#9996	the purger logs wrong reason and seq code to LB	
#10047	Job submission failed with Java UI API	
#10160	[WMS configuration] wms.cemon.endpoints proposed value	
#10607	The WMS match making does not work with a DLI catalog (LFC)	
#10847	WMSproxy doesn't manage to submit : VERR_SIGN voms sign verify error	
#10896	DAG subjobs are all matched to the same resource	
#11093	WMS Matchmaker uses wrong default for StorageIndex service type	
#11250	bulk submission error because of misunderstanding of user proxy (UID vs USERID)	
#11463	WMS C++ API: wrong behaviour at JobAd:check()	
#11788	glite-job-list-match is very slow in a WMS 1.4 using a bdii	
#12456	strange behaviour of Job::listMatchingCE (using voms)	
#12458	Job::listMatchingCE gives incorrect answer (WMS C++ API)	
#12699	LogMonitor fails on job submission in RC1.5	
#12702	boost::filesystem::path: invalid name ...	
#12721	JW failed (in RC1.5)	
#13342	Authorization does not work with fqans not containing the 'Role' tag	
#13458	wms configuration file corrupted	

#13719	LM logs to LB without setting the "user"	
#13720	LM doesn't log ReallyRunning event	
#13729	There is a segfault in the wms due probably to an LB call	
#13782	WMS seg-fault if fuzzy-rank is activated	
#13783	Purger does not log the "cleared" event	
#13864	(BD-)II updates do not propagate to ISM.	
#13865	LogMonitor does not log wn_seq code in ReallyRunning event	
#13868	glite-wms-job-submit: Failure in submission of DAG jobs	
#13903	Bad interpretation of enum edg_wll_CancelStatus_code in UI	
#13944	Empty configuration value leads UI to error	
#13959	Bad error message with mistyped NS name	
#13990	Partitionable jobs not registered properly	
#14102	some kind of dag does not work properly	
#14117	The WMS configuration can take a lot of time due to the large number of files in the sandbox dir	
#14311	missing attribute ENABLE_GRID_MONITOR = True in Codor configuration file	

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	
#7783	high job failure rate since "Wed 06 Apr 2005 11:41:38 PM CEST"	
#8536	jobs remain in a ready state for ever, until the proxy expires and they abort	
#8773	When configuring the WMS the directory /var/glite gets the wrong group ownership	
#10063	WM doesn't start if one puts more than 1 CEmon endpoint in config file	
#10466	undefined symbol: ares_gethostbyname while issuing glite-job-status	
#10655	grid-mapfile is not generated in the WMS	
#11194	gang-matching request can cause deadlock in workload manager	
#11292	Missing m4 file in org.glite.wms-ui.wrap-java properties.xml	
#11482	Three parametrs in glite-wms-site-config.xml version 1.4 are not documented	
#11551	R1.4 WMS does not seem to work with a BDII	
#11631	The information supermarket in a 1.4 WMS is almost always empty in push mode with a production bdii	
#11821	glite-job-listmatch fails when pointing to a 1.4 WMS in push mode	
#11843	WMS: wrong file name in mkgridmap.py	
#13306	In the 1.4 user Interface the jdl attributes for the bulk submission are missing	
#13533	gang matching causes the list-match to hang	
#13534	Doing gangmatching it seems that the WMS matches any CEs that are 'specified' as a requirement in the jdl	
#13607	WMS services are not published by R-GMA Service Publisher	

#13789	In the 1.4 (+quick all the fixes) WMS working in push mode the ACL information in the ISM is not correct!	
#13818	When submitting a gang job the output sandbox is never shipped back to the WMS	
#13874	In the 1.4 (+all the quick fixes) WMS configuration it seems it is only possible to configure one VOMS server per VO	