
Middleware

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*WLCG 2009 Data-Taking Readiness
Planning Workshop*

Scope

- Will refer to middleware supplied through the gLite distribution of the EGEE project
 - Storage covered separately
 - apart from DPM
 - OSG and ARC are separate
- Meaning of the baseline
- MB approved targets for data-taking baseline



A gLite release history

The gLite 3.1 software stack is supported on [Scientific Linux 4 \(SL4\)](#).

Installation

The service is available in **RPM** format. **The recommended installation is via the gLite YUM repository.** You can find the installation instructions [here](#).

RPM Installation via YUM

The yum-module name is **glite-SE_dpm_disk**.

More information about the YUM installation can be found [here](#).

Installation via individual RPMs

For the list of RPMs needed to install the service, please see the individual versions below.

Version	Date	Priority	Update details	List of RPMs
3.1.15-0	01.09.2008	High	Details	RPM list
3.1.14-0	18.08.2008	High	Details	RPM list
3.1.13-0	06.08.2008	Normal	Details	RPM list
3.1.12-0	22.05.08	Normal	Details	RPM list
3.1.11-0	13.05.08	Normal	Details	RPM list
3.1.10-0	22.04.08	High	Details	RPM list
3.1.9-0	15.04.08	High	Details	RPM list
3.1.8-0	07.04.08	Normal	Details	RPM list
3.1.7-0	06.03.08	Normal	Details	RPM list
3.1.6-0	27.02.08	Normal	Details	RPM list
3.1.5-0	21.02.08	Normal	Details	RPM list
3.1.4-0	08.02.08	Normal	Details	RPM list
3.1.3-0	24.01.08	Normal	Details	RPM list
3.1.2-1	18.01.08	Normal	Details	RPM list
3.1.1-0	14.12.07	Normal	Initial Release	RPM list



rpm lists

EGEE > gLite > 3.1 > glite-SE_dpm_disk V. 3.1.15-0 - Windows Internet Explorer provided by CERN

http://glite.web.cern.ch/glite/packages/R3.1/deployment/glite-SE_dpm_disk/3.1.15-0/glite-SE_dpm_disk-3.1.15-0.html

gLite > gLite 3.1 > glite-SE_dpm_disk > 3.1.15-0

glite-SE_dpm_disk V. 3.1.15-0

[RPM list in .txt format](#)

Packages provided by glite repository

Name	Version	Architecture	Description
DPM-DSI	1.6.10-3sec.slc4	i386	DPM-DSI for the Globus GridFTP2 server
DPM-client	1.6.11-3sec.slc4	i386	APIs and CLIs for the DPM/DPNS
DPM-httpd	1.2.1-1sec.slc4	noarch	DPM Apache httpd service
DPM-interfaces	1.6.11-3sec.slc4	i386	Disk Pool Manager Interfaces
DPM-rfio-server	1.6.11-3sec.slc4	i386	DPM RFIO server
DPM-xrootd	2.0.2-1sec.slc4	i386	DPM-xrootd interface
edg-mkgridmap	3.0.0-1	noarch	A tool to build the grid-mapfile
fetch-crl	2.6.3-1	noarch	Tool for periodic retrieval of Certificate Revocation Lists
glite-SE_dpm_disk	3.1.15-0	i386	glite metapackage (glite-SE_dpm_disk)
glite-security-voms-api	1.8.3-3.slc4	i386	org.glite.security.voms-api v. 1.8_3_3
glite-security-voms-api-c	1.8.3-4.slc4	i386	org.glite.security.voms-api-c v. 1.8_3_4
glite-version	3.1.0-1.slc4	i386	glite-version
glite-yaim-core	4.0.4-2	noarch	glite-yaim-core
glite-yaim-dpm	4.0.1-1	noarch	The glite-yaim-dpm module configures DPM Storage Elements for mysql.
glue-schema	1.3.0-3	noarch	glue-schema
gridSite-shared	1.1.18.1-1	i386	GridSite shared library and core documentation
gridview-wsclient-common	1.1.1-1	noarch	Gridview Common Web Service Client is Library for Gridview Web Service Publisher for various log Files
gridview-wsclient-gridftp	1.1.0-2	noarch	Gridview Gridftp Web Service Client is Publisher of gridftp logs to Gridview Web Service Archiver.
lcg-dm-common	1.6.11-3sec.slc4	i386	LCG Data Management common libraries and man pages.
lcg-expiregridmapdir	2.0.0-1	noarch	lcg-expiregridmapdir
lcg-service-proxy	1.0.3-2	noarch	LCG Service Proxy



Baseline wiki

Location Edit View Go Bookmarks Tools Settings Window Help

Location: <https://twiki.cern.ch/twiki/bin/view/LCG/GSSDCCRCBaseVersions>

Base versions of services and client tools for WLCG operations

The following list is intended to be continually monitored and updated in the daily WLCG Operations Meetings. It does **not** necessarily reflect the latest versions of packages available in the gLite repository.

This list has not yet been validated

Service	Version	Availability	Notes
FTS	2.0	gLite 3.0 / SL3	
FTM	2.0	gLite 3.1 / SL4	Distributed as glite-FTM-3.1.5-0
dCache	1.9.0-4	DESY	Release Notes Please install the fast PNFS with postgres 8.3 and the compatibility libraries compat-postgresql-libs-4-1PGDG.rhel4.i686 for 64-bit machines.
CASTOR Core Services/Stager	2.1.7-22	CASTOR Savannah release area	Release notes and upgrade instructions
CASTOR SRM 2.2 Server	1.3-28 on SLC3 and 2.7-3 on SLC4	CERN	Release notes and upgrade instructions
DPM server	1.6.11	gLite 3.1 / SL4	Distributed as glite-SE dpm mysql-3.1.15-0
DPM disk	1.6.11	gLite 3.1 / SL4	Distributed as glite-SE dpm disk-3.1.15-0
LFC/mysql	1.6.8-1	gLite 3.1 / SL4	Distributed as glite-LFC mysql-3.1.9-0
LFC/oracle	1.6.8-1	gLite 3.1 / SL4	Distributed as glite-LFC oracle-3.1.9-0
STORM	1.3.20	release plan	
lcg-CE	lcg-CE- 3.1.16-0	gLite 3.1 / SL4	rpm list
WN	glite-WN-3.1.14-0	gLite 3.1 / SL4	rpm list
UI	glite-UI-3.1.14-0	gLite 3.1 / SL4	rpm list
WMS	glite-WMS-3.1.2-0	gLite 3.1 / SL4	rpm list
LB	glite-LB-3.1.1-1	gLite 3.1 / SL4	rpm list
RB	3.0.19-1	gLite 3.0 / SL3	

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Intended baseline

■ FTS/SL4

- Status – Recent problems resolved, a patch is now in the pre-production service
- Target - full deployment of 2.1 on SL4

■ CREAM

- Status – available to production
 - WMS submission will come with the ICE component
 - Proxy renewal will be fixed in the simplest possible way (reproduce the lcg-CE solution)
 - If the use case is direct submission with no proxy renewal, CREAM is basically ready
- Target – maximum availability in parallel with lcg-CE
 - LCG-CE inherently problematic for analysis



Intended baseline

- WN/SL5
 - Status – under test by the experiments, reported at last MB
 - Target – available on the infrastructure in parallel to SL4
 - We will also continue to pursue the python2.5 and gcc4.3 support, but this can be added subsequently.

- Multiple parallel versions of middleware available on the WN
 - Status – proposal discussed at the GDB
 - got approval to move to the next stage
 - Target – availability, probably through the mechanism currently under discussion



Intended baseline

■ glxec/SCAS

- Target – deployment of SCAS
 - to enable multi-user pilot jobs
- Patch #2511 is under certification
 - pre-certification testing indicates that scalability is OK
 - still have to verify reliability

■ Glue2

- Status - Glue2 is awaiting final validation at OGF
- Target - we should try to get the new schema deployed to the BDIIs so we can iron out initial deployment glitches
 - Info providers will then be updated
 - Followed by clients



Intended baseline

- CE publishing
 - Status - A set of changes to rationalise publishing of heterogeneous computing resources being prepared
 - Simplified publishing of CE/cluster/subcluster info
 - Updated yaim configuration (new 'cluster publisher' node type)
 - Updated tools (WN utils and tagging utils)
 - The first phase will be the deployment of the new tools, enabling simply the current situation. Subsequent phases then take advantage of the new tools.
 - Target - the first phase as described above.



Intended baseline

■ WMS

- Status: Patch #1841 for the WMS (fixing many bugs, inc #39641 & #32345) is in certification
- Target: This patch should be deployed
 - Contains implementation of ICE to submit to CREAM
 - ICE not required for certification
- ICE will be validated in a subsequent update (but better before Feb. 2009)
 - Another bugfix release is already being prepared



Intended baseline

- gridftp2 patches
 - These have been back-ported to VDT1.6
 - and are already available in VDT1.10
 - Important for dCache and FTS
- Publishing of detailed service versions
 - Several small improved information providers are in certification
 - More could be added
 - Not very invasive, but potentially useful



DPM 1.7.0

- Not explicitly mentioned in the MB approved plan
 - Currently no explicit target
 - In certification
 - srmCopy has been fully implemented
 - WLCG SRM MoU requirements
 - details in patch #2563
 - SL5 ready
 - New info provider being processed separately



SL5

- The only explicit SL5 target is the WN on 32bit and 64bit
 - Will add support for python2.5 and gcc4.3.2
- UI will follow next
 - Only add the job submission
 - edg-job-submit etc will disappear
- Thereafter services will be released one by one
 - Favouring 64bit wherever possible
 - Certain services will not be ported
 - lcg-RB
 - lcg-CE

