

GLITE WORKER NODE

1. RELEASE DESCRIPTION

This release contains the gLite Worker Node module v. 1.1.1. 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. The gLite Standard Worker Node is a suite of several gLite clients. Please refer to the individual gLite clients release notes for additional information. For information about installing and using the gLite Worker Node, please refer to the gLite Installation and User Guides.

2. CHANGES IN THIS RELEASE

This release introduces the following changes:

- The Worker Node module and all included modules (I/O Client and R-GMA Client) can now be installed as no privileged user. The installation is RPM-based and requires the use of the provided installation scripts
- The WN now includes the data management catalog APIs and clients
- Bug fixes (see below for the complete list)

3. RELEASE CONTENTS

The gLite Worker Node v. 1.1.1 is composed of the following gLite components:

Component name	Version	File
org.glite.deployment.wn	1.1.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/installers/glite-wn_installer.sh http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-wn-config-1.1.1-1.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
gLite I/O Client	1.3.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/installers/glite-io-client_installer.sh http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-io-client-config-1.3.0-1.noarch.rpm
gLite R-GMA Client	4.3.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/installers/glite-rgma-client_installer.sh http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-rgma-client-config-4.3.0-1.noarch.rpm
glite-lb-client	1.0.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-lb-client-1.0.1-1.i386.rpm
glite-lb-client-interface	1.0.2	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-lb-client-interface-1.0.2-1.i386.rpm
glite-lb-common	1.1.4	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-lb-common-1.1.4-1.i386.rpm
glite-wms-checkpointing	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-wms-checkpointing-1.0.0-1.i386.rpm
glite-wms-common	1.0.2	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-wms-common-1.0.2-1.i386.rpm
glite-wms-utils-exception	1.0.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-wms-utils-exception-1.0.1-1.i386.rpm
glite-wms-utils-jobid	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-wms-utils-jobid-1.0.0-1.i386.rpm
glite-data-api-perl	1.1.1	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-



Release Notes

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		data-api-perl-1.1.1-1.noarch.rpm
glite-data-catalog-api-java	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-data-catalog-api-java-2.0.0-6.noarch.rpm
glite-data-catalog-api-perl	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-data-catalog-api-perl-2.0.0-2.noarch.rpm
glite-data-catalog-cli	1.4.3	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-cli-1.4.3-1.i386.rpm
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
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
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
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
glite-data-catalog-meta-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-meta-api-c-2.0.0-1.i386.rpm
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
glite-data-catalog-storageindex-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-catalog-storageindex-api-c-2.0.0-1.i386.rpm
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
glite-data-globus-rls-api-perl	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-globus-rls-api-perl-1.0.0-3.i386.rpm
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-1.0.0-5.i386.rpm
glite-data-srm-api-perl	1.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-srm-api-perl-1.0.0-1.i386.rpm
glite-data-transfer-api-c	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-transfer-api-c-2.0.0-1.i386.rpm
glite-data-transfer-api-java	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-data-transfer-api-java-2.0.0-2.noarch.rpm
glite-data-transfer-api-perl	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/noarch/RPMS/glite-data-transfer-api-perl-2.0.0-2.noarch.rpm
glite-data-transfer-cli	1.0.2	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-transfer-cli-1.0.2-1.i386.rpm
glite-data-transfer-interface	2.0.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-transfer-2.0.0-4.i386.rpm
glite-data-ui	1.1.0	http://glite.web.cern.ch/glite/packages/R1.0/R20050331/bin/rhel30/i386/RPMS/glite-data-ui-1.1.0-1.i386.rpm

4. DEPENDENCIES

The gLite Standard Worker Node module has the following dependencies:

Component name	Version	RPM file name
gLite Security Utilities	0.6.1	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
GPT	VDT 1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.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

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
perl-Expect.pm	1.01	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Expect.pm-1.01-9.i386.rpm
perl-Authen-SASL	2.08	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Authen-SASL-2.08-1.1.e13.rf.noarch.rpm
perl-Digest-HMAC	1.01	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Digest-HMAC-1.01-11.1.noarch.rpm
perl-MIME-Lite	2.117	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-MIME-Lite-2.117-2.1.e13.rf.noarch.rpm
perl-Net-Jabber	2.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-Jabber-2.0-1.1.e13.rf.noarch.rpm
perl-Net-XMPP	1.0	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-Net-XMPP-1.0-1.1.e13.rf.noarch.rpm
perl-SOAP-Lite	0.60a	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-SOAP-Lite-0.60a-1.1.e13.rf.noarch.rpm
perl-XML-Stream	1.22	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/perl-XML-Stream-1.22-1.1.e13.rf.noarch.rpm

5. KNOWN BUGS AND ISSUES

This release has no known bugs and issues. Additional information can be found on the individual release notes of the Worker Node services and clients (I/O Client, R-GMA Client and User Interface APIs and Clients). Bug numbers refer to the gLite Bug Tracking system database hosted on the CERN Savannah system at <https://savannah.cern.ch/bugs/?group=jra1mdw>.

- 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, if several gLite modules are installed on the same node, the removal procedure may fail if there overlapping dependencies. This will be fixed in a future release. As a workaround all gLite RPMS can be removed with the following command:

```
rpm -e `rpm -qa | grep glite`
```

Known open bugs:

Bug number	Description	
#7015	we should foresee a minimal, bare WN deployment module	
#7421	wn installer fails if a newer version of perl-MIME is already installed	

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

Bug number	Description	
#6402	mechanism to exchange ssh public keys between CE and WN needed	
#7405	The WN installation script fails with a glite-io-client failed dependency	
#7639	glite-wn_installer.sh fails on an LCG WN due to fixed version rpm install attempt	

6. BUGS CLOSED SINCE LAST RELEASE

This release fixes the following bugs and issues. Additional information can be found on the individual release notes of the Worker Node services and clients. 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
#6988	WN: configuration script looks for not existing parameter and fails
#7414	worker node installer does not install io-client

7. PREVIOUS RELEASES

7.1. RELEASE 0.5.0

7.1.1. Release Description

This release contains the gLite Worker Node module v. 0.5.0. 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. The gLite Standard Worker Node is a suite of several gLite clients. Please refer to the individual gLite clients release notes for additional information. For information about installing and using the gLite Worker Node, please refer to the gLite Installation and User Guides.

7.1.2. Changes in this Release

There are no functional changes in this release of the gLite Standard Worker Node. However, this version uses updated versions of the gLite I/O Client and the gLite R-GMA Client. For more details on these releases, please refer to the specific release notes.

7.1.2.1. Release contents

The gLite Worker Node v. 0.5.0 is composed of the following gLite components:

Component name	Version	File
org.glite.deployment.wn	0.5.0	http://glite.web.cern.ch/glite/packages/I20050225/installers/glite-wn_installer.sh http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/noarch/RPMS/glite-wn-config-0.5.0-1.noarch.rpm
org.glite.deployment.config	0.8.2	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/noarch/RPMS/glite-config-0.8.2-1.noarch.rpm
gLite I/O Client	1.0.0	http://glite.web.cern.ch/glite/packages/I20050225/installers/glite-io-client_installer.sh http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/noarch/RPMS/glite-io-client-config-1.0.0-1.noarch.rpm
gLite R-GMA Client	4.1.2	http://glite.web.cern.ch/glite/packages/I20050225/installers/glite-io-client_installer.sh http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/noarch/RPMS/glite-io-client-config-4.1.2-1.noarch.rpm
glite-lb-client	1.0.0	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-lb-client-1.0.0-1.i386.rpm
glite-lb-client-interface	1.0.1	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-lb-client-interface-1.0.1-1.i386.rpm
glite-lb-common	1.1.3	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-lb-common-1.1.3-1.i386.rpm
glite-wms-checkpointing	1.0.0	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-wms-checkpointing-1.0.0-1.i386.rpm
glite-wms-common	1.0.1	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-wms-common-1.0.1-1.i386.rpm
glite-wms-utils-exception	1.0.0	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-wms-utils-exception-1.0.0-1.i386.rpm
glite-wms-utils-jobid	1.0.0	http://glite.web.cern.ch/glite/packages/I20050225/bin/rhel30/i386/RPMS/glite-wms-utils-jobid-1.0.0-1.i386.rpm

		/glite-wms-utils-jobid-1.0.0-1.i386.rpm
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7.1.3. Dependencies

The gLite Standard Worker Node 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
GPT	VDT 1.2.2	http://glite.web.cern.ch/glite/packages/externals/bin/rhel30/RPMS/gpt-VDT1.2.2rh9-1.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

7.1.4. Known bugs and issues

This release has no known bugs and issues. Additional information can be found on the individual release notes of the Worker Node services and clients. 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 Worker Node doesn't contain the Data Management transfer and catalog clients and APIs. These packages will be included in the next release
- The Worker Node packages can only be installed as root. This is fixed in the release currently being integrated.
- 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, if several gLite modules are installed on the same node, the removal procedure may fail if there overlapping dependencies. This will be fixed in a future release. As a workaround all gLite RPMS can be removed with the following command:

```
rpm -e `rpm -qa | grep glite-`
```

Known open bugs:

Bug number	Description	
#6775	/etc/profile.d/glite-dirty-hack-env.[c]sh scripts on the WNs should be removed	
#6842	There are no test reports provided for the Worker Node in gLite v1.0.6 RC1 (Integration Build I20050204)	
#6843	There is no test suite for the Worker Node in gLite v1.0.6 RC1 (Integration Build I20050204)	
#7015	we should foresee a minimal, bare WN deployment module	

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

Bug number	Description	
#6988	WN: configuration script looks for not existing parameter and fails	

7.1.5. Bugs closed since last release

This release fixes the following bugs and issues. Additional information can be found on the individual release notes of the Worker Node services and clients. 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
#6358	When describing the WN installation, the RGMA client is not mentioned