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# IGI gLite 3.2 x86\_64 Update 28/29/30/31(SL5) - 10/06/2011

## NOTES (read before start to update)

### VERY IMPORTANT NOTE:

Please be aware that because of the **IMPORTANT NOTE 2** below, the installation/configuration of two or more profiles/node-types on the same machine is no more supported!!!

### IMPORTANT NOTE 2:

Due to conflicts between new and old versions of various packages the repository "glite-generic" should be disabled:

```
# mv /etc/yum.repos.d/glite-generic.repo /etc/yum.repos.d/glite-generic.repo.disabled
# yum clean all
```

### IMPORTANT NOTE 3:

Please note that the **lcg-CA metapackage and repository** is no longer maintained. The lcg-CA repository should be now replaced by the EGI trustanchors repository. All the details on how to install the CAs can be found in EGI IGTF release pages.

### IMPORTANT NOTE 4:

Before updating CE-CREAM with Torque Please remember to stop the pbs services:

```
/etc/init.d/pbs_server stop
```

Before updating WN with Torque Please remember to stop the pbs services:

```
/etc/init.d/pbs_mon stop
```

After that do the yum update commands described below in this documentation

## MAIN NEWS:

- **BDII\_top:**  
New version of BDII\_top:
  - This is a minor update of the Top BDII which fixes a sporadic installation issue (see bug report). The parameter dncachesize has been included in file /etc/bdii/bdii-top-slapd.conf to address some memory issues. In addition a new version of glite-info-update-endpoints that provide a new configuration option certification\_status, which has been requested by EGI.
  - Details about bug fixes & feature
- **CREAM:**  
This patch provides an updated BLAH to address some problems when SGE is used as batch system in the CREAM CE  
**Known issues**  
See: <http://grid.pd.infn.it/cream/field.php?n=Main.KnownIssues>
  - It may take very long time for BNotifier to know about a job status change dependening on the size of the job registry and of the accounting file.
  - BupdateSGE dies when GE produces an accounting record with "start\_time -/-" and "end\_time -/-", it will be fixed in next patch
  - Details about bug fixes & feature

- GLEXEC\_WN :

- New version of GLEXEC\_WN:

This update is needed to bring in new versions of the LCMAPS-plugins-pep-c and PEP-API.

- The PEP-API needs updating to fix a randomly occurring time-out when gLExec tries to authorize and the Argus-PEPd-server.

- The LCMAPS-plugin-c-pep needs updating in order to use the new PEP-API library. At the same time, the new plugin can now handle a situation when the X509\_USER\_PROXY (proxy of pilot job user) is located on an NFS partition with root-squash enabled.

This update fixes an issue with the YAIM configuration tool for glite-GLEXEC\_wn.

See bug <https://savannah.cern.ch/bugs/index.php?83779>

The issue mostly affects sites with a large user database and a large number of worker nodes, as the configuration script wrongfully does a full listing of all user accounts in search of the glexec account.

- Details about bug fixes & features

- LB :

- New version of LB:

This release of L&B 2.1.21 introduces several hotfixes, namely to job registration and event delivery initiated by WMS, and also fixes several bugs that were affecting the interlogger under non-standard conditions (disk full, long-term inactivity, etc.).

- Details about bug fixes & features

- SGE\_utils :

- New version of SGE utils:

This gLite-SGE\_utils release implements the proper BLAH configuration (in /opt/glite/etc/blah.config) to support SGE/BLAH changes delivered by CREAM CE 1.6.6 for gLite 3.2/sl5\_x86\_64. Other bug fixes are also included. The reconfiguration of the service is mandatory.

- Details about bug fixes & features

- UI :

New version of UI:

- containing a variety of updated clients and removing the need for some known issue workarounds documented for the previous release.

**Known issues:**

- As with all glite-UI releases the correct way to update from a previous (RPM) based release is to use "yum groupupdate glite-UI".

- If a "yum update" is done on a previous version of the node while the glite-UI repository is enabled a partial update of the UI will happen. To complete the update it becomes necessary to do:

```
# yum -y remove glite-lb-client glite-service-discovery-api-c glite-wms-ui-configuration
# yum -y groupupdate glite-UI
```

- Details about bug fixes & features

- VOBOX :

New version of VOBOX:

- New version of WMS and LB clients. (The dependency glite-wms-brokerinfo-access has been added to the glite-VOBOX metapackage.)

- New version of CREAM clients. (Provision of glite-ce-job-output command, Other bug fixes, Known issues: <http://grid.pd.infn.it/cream/field.php?n=Main.KnownIssues> )

- New version of Data Management clients. (Added python 2.5 and python 2.6 bindings for Data Management clients)

- New version of yaim clients including the SAGA adapters configuration.

The following dependencies have been removed because they are no longer needed by the glite-VOBOX: glite-info-generic and glite-info-templates.

- Details about bug fixes & features

- WN :
  - New version of WN:
  - FTS clients added as new dependencies.
  - New version of WMS and LB clients.
  - New version of Data Management clients: Added python 2.5 and python 2.6 bindings for Data Management clients.
  - New version of yaim clients including the SAGA adapters configuration.
  - Details about bug fixes & features
  
- TORQUE\_[client|server|utils]
  - New versions depending on the current version of the Torque RPMS in the EPEL repository, 2.3.13
  - Because the Torque spool directory has changed location it is not recommended to upgrade a running Torque setup. Information about running jobs will be lost when the new RPMs are installed. Please see the detailed release notes.
  
- ig\_WN\_[LSF|torque|torque\_noafs]
  - New versions including the updated glite-WN and TORQUE\_client versions
  
- ig\_CREAM\_[LSF|torque}
  - New versions including the updated CREAM and TORQUE\_[server|utils] versions
  - Added new versions of maui, v.3.3.4, and mpi-start, v. 1.0.5-2 fixing MPI problems (reference tkt #10401 )
  
- ig-yaim :
  - New version containing fixes for:
  - tkt #10401 - nuovo maui in igi
  - tkt #10381 - single sgm for glast.org
  - tkt #11688 - added voms-02.pd
  - tkt #11766 - add "jolly" for eumed

## Prerequisites

It means that all the previous updates have to been applied before the last one:

- IGI gLite 3.2 x86\_64 Update 26/27(SL5) - 10/06/2011

## Reference gLite Update

\* gLite 3.2 x86\_64 Updates : \* gLite 3.2 Update 28 - 17/05/2011 \* gLite 3.2 Update 29 - 08/06/2011 \* gLite 3.2 Update 30 - 28/06/2011 \* gLite 3.2 Update 31 - 06/07/2011

## Reference packages

Package	Version
ig-metapackages	ig26 sl5
"ig-yaim"	4.0.14-7
"ig-yaim-core"	4.0.14-1

## Instructions

## Checking/Updating YUM configuration

### Repository settings

Please check the instructions you find at the following link:

IGI Repository settings for gLite 3.2

### yum-autoupdate settings:

As good practice is suggested to **disable** the **yum-autoupdate** service. Any other settings is decided at site-manager own risk!

To disable the service it is available the following script "disable\_yum.sh " (thanks Giuseppe Platania) that can be used to REALLY disable yum-autoupdate.

## Updating profiles

Find your nodetype and carefully follow the corresponding **actions**.

Profiles	Metapackages* *INSTALLATION	Nodetypes* *CONFIGURATION	Service restart	Partial reconf	Total reconf	Actions
BDII_top	"ig_BDII_top"	"ig_BDII_top"	X	-	X	Metapackage_update Nodetype_reconfiguration Middleware_services_restart
CREAM	"ig_CREAM" "ig_CREAM_LSF" "ig_CREAM_torque"	"ig_CREAM" "ig_CREAM_LSF" "ig_CREAM_torque"	X	-	X	Metapackage_update Nodetype_reconfiguration Middleware_services_restart
GLEEXEC_wn	"ig_GLEEXEC_wn"	"ig_GLEEXEC_wn"	-	-	X	Metapackage_update Nodetype_reconfiguration
LB	"ig_LB"	"ig_LB"	X	-	X	Metapackage_update Nodetype_reconfiguration Middleware_services_restart
SGE_utils	"ig_SGE_utils"	"ig_SGE_utils "	X	-	X	Metapackage_update Nodetype_reconfiguration Middleware_services_restart
UI	"ig_UI" "ig_UI_noafs"	"ig_UI" "ig_UI_noafs"	-	-	X	Metapackage_update Nodetype_reconfiguration
VOBOX	"ig_VOBOX"	"ig_VOBOX"	X	-	X	Metapackage_update Nodetype_reconfiguration Middleware_services_restart
WN	"ig_WN" "ig_WN_noafs" "ig_WN_LSF" "ig_WN_LSF_noafs" "ig_WN_torque" "ig_WN_torque_noafs"	"ig_WN" "ig_WN_noafs" "ig_WN_LSF" "ig_WN_LSF_noafs" "ig_WN_torque" "ig_WN_torque_noafs"	-	-	X	Metapackage_update Nodetype_reconfiguration

### Actions

Each of the following sections reports the actions that may be follow in order to upgrade your profiles. Please execute **ONLY** the actions listed on the table above in the column "Actions" and in the row corresponding to your profile!

## Metapackage update

Please see yum tips for additional information about YUM.

- Update YUM metadata and install the new rpms.

```
yum clean all
yum install
```

Please remember that on case of WN you should use the "groupinstall":

```
yum groupinstall ig_WN_torque
```

## On CE CREAM:

Before installing/updating a CREAM CE remember to install xml-commons-apis:

```
yum update xml-commons-apis
```

When installing/updating a CREAM CE node, a dependency problem such as:

Error: Missing Dependency: libcres.so.0(64bit) is needed by package glite-security-gss-2.0.0-6.s15.x86\_64 could be seen. In this case, the update should be done doing:

```
yum update --exclude=c-ares
```

Please note that doing:

```
yum update ig-CREAM_torque
```

or

```
yum update ig-CREAM_LSF
```

you are not guaranteed to have all relevant RPMs updated.

When installing/updating **ig\_CREAM\_torque** (in general torque) remember to change the torque directory

On the Server (usually CREAM CE host) stop the pbs\_server (Even if the gLite documentation says pbs\_mon):

```
/etc/init.d/pbs_server stop
mv /var/spool/pbs /var/torque
ln -s /var/torque /var/spool/pbs
/etc/init.d/pbs_server start
```

- gLite TORQUE documentation

## On VOBOX:

When installing/updating the VOBOX 3.2.11 it doesn't work out of the box. This is because there is a new version of glite-lbjp-common-gss that obsoletes package glite-security-gss, on which glite-VOBOX still depends. The recommended upgrade sequence is:

```
rpm -e --nodeps glite-security-gss
yum update
```

## On ig\_WN\_torque:

Metapackage update

When installing/updating ig\_WN\_torque (in general torque) remember to change the torque directory doing:

```
/etc/init.d/pbs_mon stop
mv /var/spool/pbs /var/torque
ln -s /var/torque /var/spool/pbs
/etc/init.d/pbs_mon start
```

### Editing local configuration files

\* In the last updates many variables have been changed or moved to "services" and "defaults" directories. Please carefully check your "<site-info.def>" and files under "services/" and "nodes/" directories comparing to the new ones distributed with latest released "yaim" modules. For example you can use "vimdiff" like here below:

```
vimdiff /opt/glite/yaim/examples/siteinfo/ig-site-info.def
```

You may find more detailed information on **configuration files structure** here:

- yaim configuration files

and on **configuration variables** here:

- gLite YAIM configuration variables

### Nodetype reconfiguration

#### IMPORTANT: /services directory

Please ensure that you have all the **NEEDED** configuration files under your "/services" directory (for example: "ig-se\_dpm\_mysql", "ig-se\_dpm\_disk", ...).

For any details please refer to the reference "IGI YAIM configuration files

- Reconfigure the nodetype

#### IMPORTANT: /services directory

Please ensure that you have all the **NEEDED** configuration files under your "/services" directory (for example: "ig-mpi", "ig-mpi-ce", "ig-mpi-wn", ...).

Remember to add the variable TORQUE\_VAR\_DIR in services and change the BATCH\_LOG\_DIR in ig-site-info.def to /var/torque

#### Known Issues: tomcat5 start log4j error

in a yaim configuration even if it terminates successfully, an error is thrown and in the log you could find: Starting tomcat5: /usr/bin/rebuild-jar-repository: error: Could not find log4j Java extension for this JVM /usr/bin/rebuild-jar-repository: error: Some detected jars were not found for this jvm it is not important for cream to work.

```
/opt/glite/yaim/bin/ig_yaim -c -s <site-info.def> -n <nodetype>
```

Where "" is one of the nodetypes listed in the "Nodetypes" column of the table above.

**NOTE:** Please remember to add -n ig\_BDII\_site if you want to reconfiguring a site BDII on top of your CE

### Middleware services restart

Look at your "chkconfig" services list and restart all middleware-related service:

```
chkconfig --list | grep 3:on | sort
```

Then restart with:

```
service <middleware-service> restart
```

-- SergioTraldi - 2012-02-01

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