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# YAIM 4.0.0 Certification (third phase)

## Developers testing

There is no testing done by the developers at this second stage.

## Fresh install testing

### rpm list

The list of rpms can be found in etics in `/afs/cern.ch/project/gd/www/yaim:`

- `glite-yaim-core-4.0.0-10.noarch.rpm`
- `glite-yaim-core-4.0.0-11.noarch.rpm`: The core rpm had to be regenerated because now yaim lfc contains 3.0 and 3.1 configuration and the `configure_node` command was only taking into account UI and WN.
- `glite-yaim-clients-4.0.0-3.noarch.rpm`
- `glite-yaim-clients-4.0.0-4.noarch.rpm`: The clients rpm has been regenerated to configure one single sgm account for vobox and to include the `_30` functions in its function list (this has been detected in GGUS ticket 26303).
- `glite-yaim-clients-4.0.0-5.noarch.rpm`: The clients rpm has been regenerated because by mistake we introduced part of a fix in yaim core and it needed some changes also in clients, so we've decided to include them. This modification affects only `config_wn` and it fixes bug #28082 and #27896.
- `glite-yaim-dcache-4.0.0-2.noarch.rpm`
- `glite-yaim-dpm-4.0.0-2.noarch.rpm`
- `glite-yaim-fts-4.0.0-5.noarch.rpm`
- `glite-yaim-lfc-4.0.0-4.noarch.rpm`
- `glite-yaim-myproxy-4.0.0-2.noarch.rpm`

The main difference with the rpms from the second phase of certification is:

- `config_bdii`: the detection of `openldap` version was removed, but it is still required, adding one line before line `"version=openldap-2.1"` as:

```
result=`ls -d /usr/share/doc/openldap-servers-* | cut -d"-" -f3`
```

- Changes for LFC `node-info.d` since 3.1 configuration is now in the node.
- Remove `"+"` from the line 5 of function `config_seclassic`
- add line `"mkdir -p /var/log/glite/rgma-server"` before line `"chown`

```
tomcat4:tomcat4 /var/log/glite/rgma-server/" in config_rgma_server
```

- remove `config_bdii_only` from function list of CE
- in `config_globus` put back `"GLOBUS_MDS=yes"` for lcg CE
- clients contains a fix for TAR WN in gLite 3.0.

For a list of the bugs that this version of YAIM intends to fix, please see the following Savannah patches:

- patch #1238 [↗](#), YAIM 4.0.0 for the 3.0 repository
- patch #1239 [↗](#), YAIM 4.0.0 for the 3.1 repository

## CERN testing report

General remark:

- For all resources, we need to uninstall lcg-info-generic and install glite-info-generic-2.0.2-1, besides, BDII needs to be upgraded to 3.9.1-3.

### 3.0 UI

- When calling `config_globus`, it gives some error info:

```
/opt/globus/sbin/globus-initialization.sh: line 61: ./setup-globus-mds-gris:
No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 62: ./setup-globus-gatekeeper:
No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 63:
./setup-globus-gram-job-manager: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 64:
./setup-globus-gram-reporter-fork: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 65:
./setup-globus-gram-reporter-pbs: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 66:
./setup-globus-gram-reporter-condor: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 67:
./setup-globus-gram-reporter-lsf: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 68:
./setup-globus-job-manager-fork: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 69:
./setup-globus-job-manager-pbs: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 70:
./setup-globus-job-manager-condor: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 71:
./setup-globus-job-manager-lsf: No such file or directory
```

it's harmless, but annoying.

- when calling `config_glite_ui_30`,

```
setup-ssl-utils: Complete

..Done
WARNING: The following packages were not set up correctly:
        globus_trusted_ca_42864e48_setup-noflavor-pgm
Check the package documentation or run postinstall -verbose to see what
happened
```

this can be ignored although I list it here

### 3.0 WN

- when calling `config_globus`,

```
/opt/globus/sbin/globus-initialization.sh: line 65: ./setup-globus-gram-reporter-pbs: No such file
/opt/globus/sbin/globus-initialization.sh: line 66: ./setup-globus-gram-reporter-condor: No such
/opt/globus/sbin/globus-initialization.sh: line 67: ./setup-globus-gram-reporter-lsf: No such file
loading cache ./config.cache
checking for mpirun... /usr/bin/mpirun
updating cache ./config.cache
creating ./config.status
creating fork.pm
/opt/globus/sbin/globus-initialization.sh: line 69: ./setup-globus-job-manager-pbs: No such file
```

```
/opt/globus/sbin/globus-initialization.sh: line 70: ./setup-globus-job-manager-condor: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 71: ./setup-globus-job-manager-lsf: No such file or directory
```

but it can be ignored.

### 3.0 LCG CE

- when calling `config_fmon_client`, it complains:

```
INFO: Executing function: config_fmon_client
JM.conf file parsing: [FAILED]
```

```
Batch system log dir not defined in JM.conf!
JM.conf file parsing: [FAILED]
```

```
Batch system log dir not defined in JM.conf!
```

### WMS+LB

The test is based on the current checkpoint release, 1251.

- `node-info` should be updated to use `config_gip` not `config_gip_services`, `config_gip` should be updated for WMS port and add LB node type.

### VOBOX

- when calling `config_vobox`

```
ls: /opt/vobox/dteam/proxy_repository: Permission denied
Starting ProxyRenewal Daemon: vobox-renewd [ OK ]
Process does not exist ... [FAILED]
ls: /opt/vobox/dteam/proxy_repository: Permission denied
Starting ProxyRenewal Daemon: vobox-renewd [ OK ]
Process does not exist ... [FAILED]
ls: /opt/vobox/dteam/proxy_repository: Permission denied
Starting ProxyRenewal Daemon: vobox-renewd [ OK ]
Process does not exist ... [FAILED]
ls: /opt/vobox/dteam/proxy_repository: Permission denied
Starting ProxyRenewal Daemon: vobox-renewd [ OK ]
.....
```

and it tried to configure VOBOX for all sgm pool accounts. And also it keeps printing out above error message on console after configuring. Notice: in `grid-mapfile` all sgm DN are mapped to `sgm01`, so we don't need to have daemons or cron for all sgm pool accounts.

## Upgrade testing

In order to test YAIM 4.0.0, you have to install patch [1238](#) for 3.0 or patch [1239](#) for 3.1.

Since YAIM 4.0.0 depends on a new version of the GIP, you also need to apply patch [1363](#). This will install a new rpm called `glite-info-generic`.

### 3.0 APT repository

In order to test the upgrade to the new YAIM 4.0.0 in gLite 3.0 node types, please, apply patch [1238](#) and patch [1363](#) by editing your apt string in the following way:

```
rpm http://lxb2042.cern.ch/gLite/APT/R3.0-cert rhel30 externals Release3.0 updates updates.certif
```

## 3.1 YUM repository

In order to test the upgrade to the new YAIM 4.0.0 in gLite 3.1 node types (only WN and UI), please, apply patch 1239 [↗](#) by editing your yum string in the following way:

```
[patch 1239]
name=gLite 3.1 patch 1239
baseurl=http://grid-deployment.web.cern.ch/grid-deployment/glite/integration/cert/3.1/patches/1239
enabled=1
```

## External Sites testing reports

### INFN testing report

By Elisabetta Molinari

See comments in task #5523 [↗](#).

### TCD testing report

By John Walsh

<http://www.cs.tcd.ie/~walshj1/EGEE-SA3/Certification/patch-testing/patch1238/> [↗](#)

### GRNET testing report

By Dimitrios Apostolou

See comments in patch #1238 [↗](#).

### CESGA testing report

By Esteban Freire

### 3.0 LCG CE

- Installation from scratch on SL 3
- We need to add `SITE_BDII_HOST=sa3-ce.$MY_DOMAIN` into `site-info.def` file
- Package `glite-info-generic-2.0.2-1.noarch.rpm` installed by hand

We got these errors:

```
INFO: Now creating the grid-mapfile - this may take a few minutes...

voms search(https://voms.cern.ch:8443/voms/ops/services/VOMSCompatibility?method=getGridmapUsers&
voms search(https://test01.egee.cesga.es:8443/voms/cesga/services/VOMSCompatibility?method=getGridmapUsers&
rver Error

voms search(https://lxb1928.cern.ch:8443/voms/dteam/services/VOMSCompatibility?method=getGridmapUsers&
connect: Connection timed out; Connection timed out

voms search(https://lxb1928.cern.ch:8443/voms/dteam/services/VOMSCompatibility?method=getGridmapUsers&
: connect: Connection timed out; Connection timed out

voms search(https://lxb1928.cern.ch:8443/voms/dteam/services/VOMSCompatibility?method=getGridmapUsers&
n timed out; Connection timed out
```

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```
voms search(https://voms.cnaf.infn.it:8443/voms/compchem/services/VOMSCompatibility?method=getGridma
Server Error
```

```
voms search(https://voms.cnaf.infn.it:8443/voms/compchem/services/VOMSCompatibility?method=getGridma
al Server Error
```

```
voms search(https://swevo.ific.uv.es:8443/voms/fusion/services/VOMSCompatibility?method=getGridma
er Error
```

INFO: Configuration Complete.

- Globus-gatekeeper is up and running after yaim configuration
- All services are up and running on lcg-CE
- job submission is working fine

### 3.0 WN

- Installation from scratch on SL 3
- We need to add `SITE_BDII_HOST=sa3-ce.$MY_DOMAIN` into `site-info.def` file

We got these errors:

```
[ .... ]
```

```
Warning: Host cert file: /etc/grid-security/hostcert.pem not found. Re-run
        setup-globus-gram-job-manager after installing host cert file.
```

```
Determining system information...
Creating job manager configuration file...
Done
```

```
Setting up fork gram reporter in MDS
```

```
-----
Done
```

```
/opt/globus/sbin/globus-initialization.sh: line 65: ./setup-globus-gram-reporter-pbs: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 66: ./setup-globus-gram-reporter-condor: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 67: ./setup-globus-gram-reporter-lsf: No such file or directory
loading cache ./config.cache
checking for mpirun... (cached) /usr/bin/mpirun
creating ./config.status
creating fork.pm
/opt/globus/sbin/globus-initialization.sh: line 69: ./setup-globus-job-manager-pbs: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 70: ./setup-globus-job-manager-condor: No such file or directory
/opt/globus/sbin/globus-initialization.sh: line 71: ./setup-globus-job-manager-lsf: No such file or directory
loading cache ./config.cache
creating ./config.status
creating grid-cert-request-config
creating grid-security-config
INFO: Executing function: config_lcgenv_30
INFO: Executing function: config_replica_manager
```

```
-----
CONFIGURATION SUCCESSFUL!
-----
```

- globus-url-copy to sa3-ce.egee.cesga.es it works
- All services are up and running on WN

### SE\_dpm\_mysql

- Upgrade with apt repository from yaim 3.1 adding the patch repository it works fine..
- We use as repository:

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```
rpm http://lxb2042.cern.ch/gLite/APT/R3.0-cert rhel30 externals Release3.0 updates updates.certif
```

We got these errors:

```
[root@sa3-se etc]# /opt/glite/yaim/bin/yaim -c -s site-info.def -n glite-SE_dpm_mysql
voms search(https://voms.cern.ch:8443/voms/ops/services/VOMSCompatibility?method=getGridmapUsers&
voms search(https://test01.egee.cesga.es:8443/voms/cesga/services/VOMSCompatibility?method=getGri
....
This with all voms-servers
[ .... ]

chown: failed to get attributes of `/opt/glite/var/lock/gip': No such file or directory
chown: failed to get attributes of `/opt/glite/var/cache/gip': No such file or directory
chown: failed to get attributes of `/opt/glite/etc/gip/ldif': No such file or directory
chmod: failed to get attributes of `/opt/glite/var/lock/gip': No such file or directory
chmod: failed to get attributes of `/opt/glite/var/cache/gip': No such file or directory
chmod: failed to get attributes of `/opt/glite/etc/gip/ldif': No such file or directory
/opt/glite/yaim/bin/./libexec/configure_node: line 721: /opt/glite/etc/gip/ldif/static-file-dSE.
/opt/glite/yaim/bin/./libexec/configure_node: line 730: /opt/glite/etc/gip/plugin/glite-info-dyn
chmod: failed to get attributes of `/opt/glite/etc/gip/plugin/glite-info-dynamic-se': No such fil
/opt/glite/yaim/bin/./libexec/configure_node: line 847: /opt/glite/etc/gip/ldif/static-file-SE.l
/opt/glite/yaim/bin/./libexec/configure_node: line 961: /opt/glite/etc/gip/glite-info-generic.co
[ ... ]
```

- globus-url-copy to sa3-ce.egee.cesga.es it works
- All services are up and running on SE\_dpm\_mysql

## MON

- Upgrade with apt repository from yaim 3.1 adding the patch repository it works fine..
- We use as repository:

```
rpm http://lxb2042.cern.ch/gLite/APT/R3.0-cert rhel30 externals Release3.0 updates updates.certif
```

- We got dependencies installing glite-info-generic-2.0.2-1.noarch.rpm

```
[root@sa3-mon root]# rpm -vhi glite-info-generic-2.0.2-1.noarch.rpm
error: Failed dependencies:
    perl(Net::LDAP::LDIF) is needed by glite-info-generic-2.0.2-1
```

- We add SITE\_BDII\_HOST in site-info.def

```
tomcat5 ok
```

```
gridice-mds OK
```

```
rgma-gin OK
```

```
rgma-publish-site OK
```

```
rgma-servicetool OK
```

```
[root@sa3-mon log]# rgma-server-check
```

```
*** Running R-GMA server tests on sa3-mon.egee.cesga.es ***
Checking Tomcat is running on the local machine...
Successfully connected to Tomcat.
Java VM version: 1.4.2_14 (OK)
Connecting to https://lxb2019.cern.ch:8443/R-GMA/SchemaServlet...
Successfully connected to Schema.
```

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```
Using PongServlet (1) on https://lxb2019.cern.ch:8443/R-GMA/PongServlet.
Using certificate /var/lib/tomcat5/conf/hostcert.pem.
Using key /var/lib/tomcat5/conf/hostkey.pem.
Checking other servlets...
Connecting to https://sa3-mon.egee.cesga.es:8443/R-GMA/PrimaryProducerServlet:OK
Checking clock synchronization: OK
Connecting to https://sa3-mon.egee.cesga.es:8443/R-GMA/SecondaryProducerServlet:OK
Checking clock synchronization: OK
Connecting to https://sa3-mon.egee.cesga.es:8443/R-GMA/OnDemandProducerServlet:OK
Checking clock synchronization: OK
Connecting to https://sa3-mon.egee.cesga.es:8443/R-GMA/ConsumerServlet:OK
Connecting to streaming port 8088 on sa3-mon.egee.cesga.es:OK
Checking clock synchronization: OK

*** R-GMA server test successful ***
```

### PIC testing report

The following bug has been found:

I'm experiencing some minor problems with the infosystem. I'm a little confused which info is published by the wrapper. Here are the relevant outputs:

```
[root@ce03 root]# /opt/glite/libexec/glite-info-wrapper
dn:
GlueCEUniqueID=ce03.pic.es:2119/jobmanager-lcgpbs-pps,mds-vo-name=local,
o=grid
glueceinfototalcpus: 0
```

```
[root@ce03 root]# /opt/glite/etc/gip/plugin/glite-info-dynamic-ce
dn:
GlueCEUniqueID=ce03.pic.es:2119/jobmanager-lcgpbs-pps,mds-vo-name=local,
o=grid
GlueCEInfoTotalCPUs: 4
```

As I guess the info from the plugin should overwrite the static info, so the glite-info-wrapper should give the correct value of 4, shouldn't it? And why are the variables of the wrapper all in lower case? Could that be a problem?

The following patch has been created to fix this: [#patch 1363](#)

### UCY testing report

By Asterios Katsifodimos

See report in [http://docs.google.com/View?docid=dgskzrkt\\_16hkmtbk](http://docs.google.com/View?docid=dgskzrkt_16hkmtbk)

### CERN testing report

See comments in patch [#1238](#) and patch [#1239](#).

-- MariaALANDESPRADILLO - 24 Aug 2007

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This topic: EGEE > YAIM\_4\_0\_0\_2testing  
Topic revision: r11 - 2007-09-11 - MariaALANDESPRADILLO





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