



# LHC COMPUTING GRID

## LCG2 MANUAL UPGRADE

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*Abstract: These notes will help you upgrade your site manually*

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## 1. INTRODUCTION TO THE MANUAL UPGRADE PROCEDURE

This document is addressed to Site Administrators in charge of LCG middleware installation and configuration.

It is a generic guide to the manual upgrade procedure for any supported LCG node types.

It provides a fast method to upgrade the LCG middleware on the various LCG node types (WN, UI, CE, SE ...) on the top of the following Linux distributions.

- Scientific Linux 3.0
- Linux Red Hat 7.3

and refers to the upgrade between the latest LCG versions and the previous one



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## 2. YAIM

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### 1) Reconfigure apt on your nodes

from :

```
> more /etc/apt/sources.list.d/lcg.list
```

```
rpm http://grid-deployment.web.cern.ch/grid-deployment/gis apt/LCG-2.3_1/en/i386 lcg_sl3
```

to :

```
> more /etc/apt/sources.list.d/lcg.list
```

```
rpm http://grid-deployment.web.cern.ch/grid-deployment/gis apt/LCG-2.4_0/sl3/en/i386 lcg_sl3 lcg_sl3.updates
```

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### 2) Run the upgrade

```
> apt-get update
```

```
> apt-get dist-upgrade
```

This will also upgrade the CA RPMs to the latest release that is in the repository.

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### 3) Adjust the site configuration file

Change your local site-info.def, following the examples provided in */opt/lcg/yaim/examples/site-info.def*. A number of new variables have been added for 2.4.0, so you may find it easiest to create a new site-info.def based on the example rather than editing your existing copy. Pay particular attention to the LCG\_REPOSITORY variable which must point to the 2.4.0 repository.

The new variables are as follows;

```
CA_WGET
CRON_DIR
DCACHE_ADMIN
DCACHE_POOLS
DCACHE_PORT_RANGE
GLOBUS_TCP_PORT_RANGE
GRIDMAP_AUTH
JAVA_LOCATION
JOB_MANAGER
LFC_HOST
```



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```
MY_DOMAIN
QUEUES
SE_TYPE
VO_<VO_NAME>_QUEUES
VO_SW_DIR
```

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#### 4) Rerun on the YAIM configuration script

```
> /opt/lcg/yaim/scripts/configure_node <site-info.def> <node-type>
```