



Enabling Grids for E-scienceE

# CERN status report

## SA3 All Hands Meeting Dublin

*Andreas Unterkircher*  
*CERN Grid Deployment*

[www.eu-egee.org](http://www.eu-egee.org)



- **All services present**
  - SLC4 versions where available
  - 64 bit WNs at CERN
  - SEs: DPM, dCache (DESY), SE-classic
  - WMS and lcg-RB
  - VOMS server with special CA
- **Patch monitor at CERN**
  - Shows which patch is installed on which machine
  - Allows removal of patches
- **Central management of logs using splunk**
- <https://twiki.cern.ch/twiki/bin/view/EGEE/EGEETestbeds>

- **Emphasis: gLite3.1 on SL4 (32bit)**
- **gLite services become obsolete/unmaintained once corresponding services are successfully deployed on SL4.**
- **64bit node types are being introduced step by step**
  - Worker Node, DPM, dCache
- **ETICS is used to build gLite 3.1**
- **Integration Dashboard**
  - Patch Watch: overview of patches according to priority and age
  - Node Status: Integration Status of nodes on different platforms (SL3/4, ia32/x86\_64). Shows also missing packages.
  - <https://grid-deployment.web.cern.ch/grid-deployment/cgi-bin/reports.cgi?action=index>

- **In production SL\***

- glite-WN
- glite-UI
- glite-TORQUE\_client
- glite-TORQUE\_server
- glite-TORQUE\_utils
- glite-FTM
- glite-BDII
- lcg-CE
- glite-VOMS\_mysql
- glite-VOMS\_oracle

- **In PPS SL4**

- glite-LFC\_mysql
- glite-PX
- glite-SE\_dpm\_mysql
- glite-AMGA\_postgres
- glite-LFC\_oracle
- glite-SE\_dpm\_disk
- glite-VOBOX

- **In certification SL4**

- glite-CONDOR\_utils
- glite-cream-CE
- glite-FTA\_oracle
- glite-FTS\_oracle
- glite-LB
- glite-LSF\_utils
- glite-MON
- glite-MPI
- glite-PX
- glite-SE\_classic

- **In certification SL4**

- glite-SE\_dcache\_\*
- glite-SE\_dpm\_oracle
- glite-WMS
- glite-WMSLB
- glite-WN (64bit)

- **SGE (CESGA) and Condor (PIC) are well under way.**
- **Torque tested by GRNET.**
- **No partner for LSF at the moment.**
- **Other systems ?**
- **Dedicated session later.**
- **Batch system page**
  - <https://twiki.cern.ch/twiki/bin/view/EGEE/BatchSystems>

- **New tests added to SAM**
  - Testing with voms-proxy as well as grid-proxy
  - BLAH
  - LB
  - SRM v2.2
  - LFC Python API
  - AMGA
- **New tests available but not yet in SAM**
  - DGAS
  - WMPProxy
  - dCache
  - lcg-utils
  - GFAL

- **Our Xen management tool “vgrid” has been re-written this summer**
  - Hardly new functionality but improved stability, security and configurability
- **Our image generation tool “libfsimage” has been expanded**
  - Can generate images for SL(C)3/4/5, CentOS, Debian, Fedora, Ubuntu on i686 as well as x86\_64
- **In collaboration with openlab a web application for image generation “OSFarm” has been developed**



- **Yaim 4.0.3 is the final stage towards the modular yaim. In this version all node types have their own yaim module.**
- **Status of yaim modules (certifications, pps, prod)**
  - <https://twiki.cern.ch/twiki/bin/view/LCG/YaimPlanning>
- **New functionality as requested by sysadmins**
  - <https://twiki.cern.ch/twiki/bin/view/EGEE/YAIMsysadmins>
- **Improved documentation**
  - <https://twiki.cern.ch/twiki/bin/view/LCG/YaimGuide400>
- **Number of yaim developers increased (currently 18)**
  - [https://twiki.cern.ch/twiki/bin/view/EGEE/YaimDevelopersGuide#Who\\_is\\_Who](https://twiki.cern.ch/twiki/bin/view/EGEE/YaimDevelopersGuide#Who_is_Who)

- Finally gaining momentum...

Partner	Certified	In certification/configuration
TCD	12	1
GRNET	5	2
INFN	4	0
PIC	3	1
UCY	2	2
CSIC/IFIC	1	1
IMPERIAL	1	0
CESGA	0	1
PSNC	0	0

- **Scalability testing for the BDII**
- **Indexed BDII created based on production logs**
- **Significantly improved performance**
- **Released on SL4 and confirmed to work on SL4 64bit**
- **Results presented at CHEP 2007**