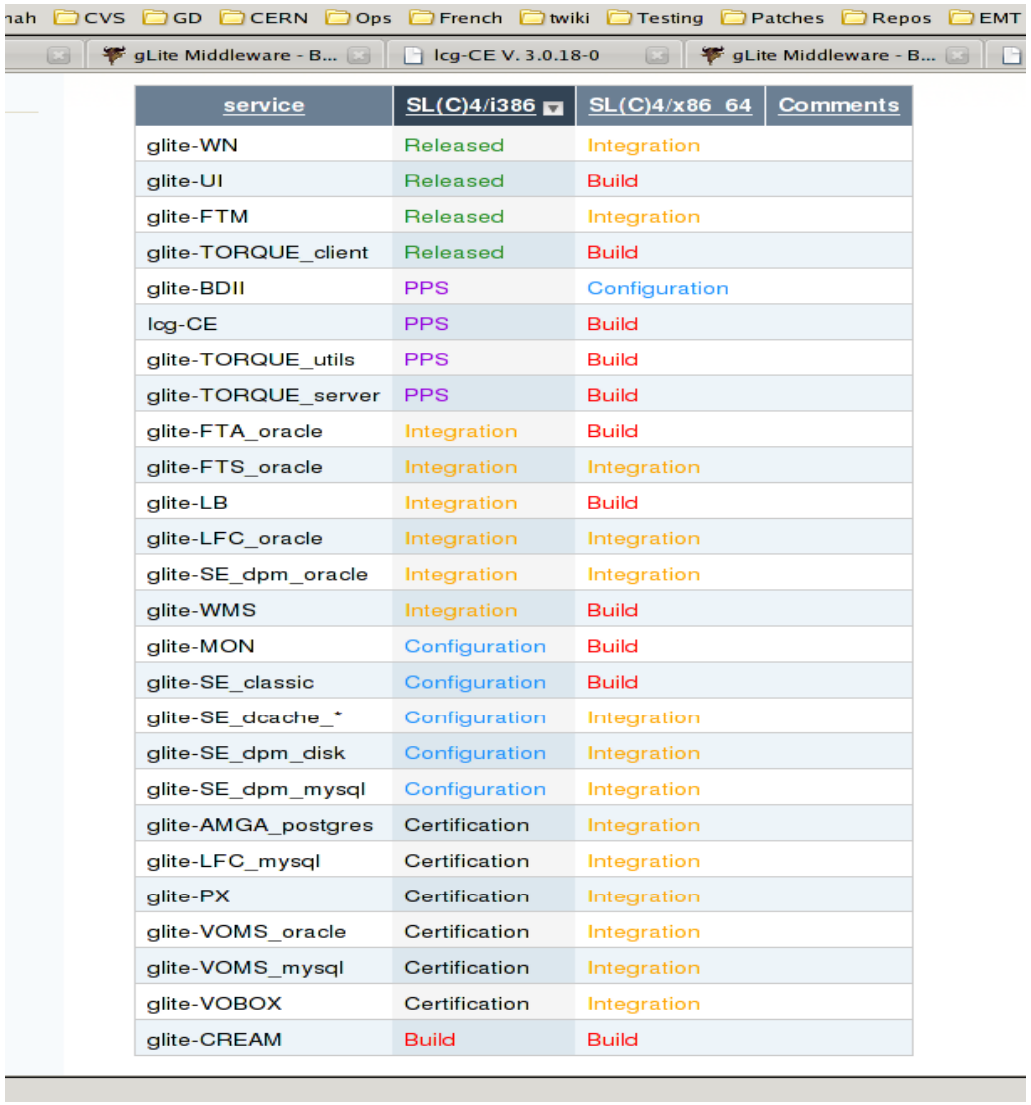
gLite 3.1 / SL4 Status

Oliver Keeble & Markus Schulz
SA3
CERN-IT-GD

gLite 3.1 status page



CVS GD CERN Ops French twiki Testing Patches Repos EMT

gLite Middleware - B... | lcg-CE V. 3.0.18-0 | gLite Middleware - B...

service	SL(C)4/i386	SL(C)4/x86_64	Comments
glite-WN	Released	Integration	
glite-UI	Released	Build	
glite-FTM	Released	Integration	
glite-TORQUE_client	Released	Build	
glite-BDII	PPS	Configuration	
lcg-CE	PPS	Build	
glite-TORQUE_utils	PPS	Build	
glite-TORQUE_server	PPS	Build	
glite-FTA_oracle	Integration	Build	
glite-FTS_oracle	Integration	Integration	
glite-LB	Integration	Build	
glite-LFC_oracle	Integration	Integration	
glite-SE_dpm_oracle	Integration	Integration	
glite-WMS	Integration	Build	
glite-MON	Configuration	Build	
glite-SE_classic	Configuration	Build	
glite-SE_dcache_*	Configuration	Integration	
glite-SE_dpm_disk	Configuration	Integration	
glite-SE_dpm_mysql	Configuration	Integration	
glite-AMGA_postgres	Certification	Integration	
glite-LFC_mysql	Certification	Integration	
glite-PX	Certification	Integration	
glite-VOMS_oracle	Certification	Integration	
glite-VOMS_mysql	Certification	Integration	
glite-VOBOX	Certification	Integration	
glite-CREAM	Build	Build	

https://twiki.cern.ch/twiki/bin/view/EGEE/Glite31NodeTracker

Computing Elements

- **LCG-CE**
  - has been ported to SL4 + VDT-1.6
  - Stress tested (works as well as the SL3 version)
  - Support for DGAS and APEL
  - In PPS, will be released to prod next week
  - Release includes torque
  - Suffers from the same scaling problems as the old lcg-CE

- **CREAM-CE**
  - SL3 prototype worked well
  - SL4 version is in preparation
    - Currently targeting January for start of certification
  - Still outstanding work for some batch systems (accounting)

WMS and BDII

- **Checkpoint release of 3.1 codebase WMS/LB on SL3 ('patch #1251')**
  - Has been released to Production (as part of gLite 3.0)
  - A few issues, but maintenance is expensive
    - A set of updates is now being prepared
  - Significant improved version (was intended to last for 2 -3 months)

- **Work on WMS/LB gLite 3.1 / SL4 version**
  - Have just invoked an equivalent process to that used for SL3
    - CERN SA3 will now take INFN's rpm list and produce a repository
    - INFN and Imperial will install, configure and give feedback
    - Then CERN will start stress testing – need support from a large VO

- **BDII now released to PPS**
  - Will go to prod next week
  - Supports _site and _top configurations
  - Resource BDIIs will be standard on all relevant services (no more MDS)

Data Management

- **DPM and LFC**
  - have been tested internally on SL4
  - 32bit and 64bit versions, both work in informal runtime tests
  - Configuration has been taken over by the DM team
    - Just waiting for the yaim component to complete certification
  - Now have DPM/LFC 1.6.7-1 (includes HTTP(S) and Xrootd support)
- **glite-SE_dcache**
  - Ready for certification
  - Question over value of releasing on 32 bit
- **glite-SE_classic**
  - Finalising configuration
  - Fix needed for the info providers
  - GT4 gridftp working

Various

- **glite-MON**
  - Taken over by RAL, finalising configuration (tomcat 5.5)
- **glite-PX**
  - In certification (SA3 partners in TCD)
- **glite-VOMS**
  - In certification (Dimitar Shiyachki)
  - Being processed as patch #1322
  - Couple of config fixes then it's certified
- **glite-AMGA_postgres**
  - In certification
  - Needed updated postgres drivers
  - Other databases will follow on demand

FTS/A/M, VOBOX

- **glite-FTM**
  - has been release to production
- **FTS-2**
  - Installation and configuration tests nearly done
  - Runtime testing is next
  - Release and deployment at T1s in January
- **glite-VOBOX**
  - In certification
  - Certifying in conjunction with Alice

64 bit

- **Preceding slides were about 32 bit**
  - NB 32 bit software will run on an x86_64 bit OS
    - Modulo some issues with interpreted languages
- **Strategy for 64 bit (x86_64) is prioritised**
  - WN
  - Torque_client (distributed with middleware)
    - WN itself is batch system independent
  - DPM_disk
  - UI
  - Other services depending on 64 bit advantage
- **64 bit WN is undergoing runtime testing**

64 bit - dual arch install

- **In order to properly support 32bit applications on x86_64, we will ship a number of 32bit libraries with the 64bit WN.**
- **For dual arch install, the following constraints apply**
  - rpms must be at the same version
  - rpms must be installed simultaneously
  - shared files must be identical, EXCEPT;
    - libs must be relocated properly -> /lib64
    - executables will have the 64 bit version chosen
- **Our management scripts need to be updated to accommodate packages which must be installed 32/64**
- **Dual architecture meta-rpms are proving problematic**
  - Will have to move to 'groups'
  - # yum install glite-WN -> # yum groupinstall glite-WN

Extra Slides

- **Extra slides**

Plan (May)

- **As shown at the EGEE review**
- **Problems to move to gLite-3.1 (including ETICS)**
  - Addressed by the PMB endorsed “gLite restructuring plan”