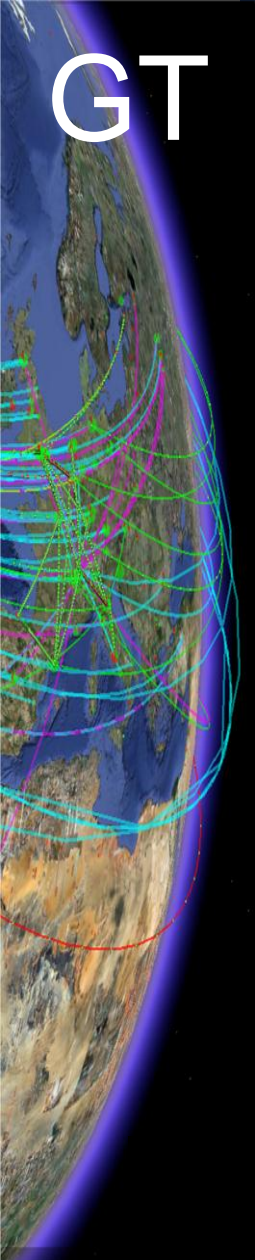
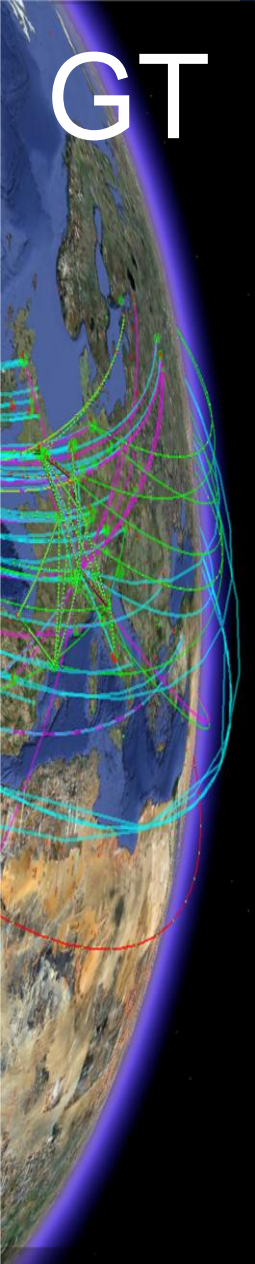


# gLite->EMI2/UMD2 transition

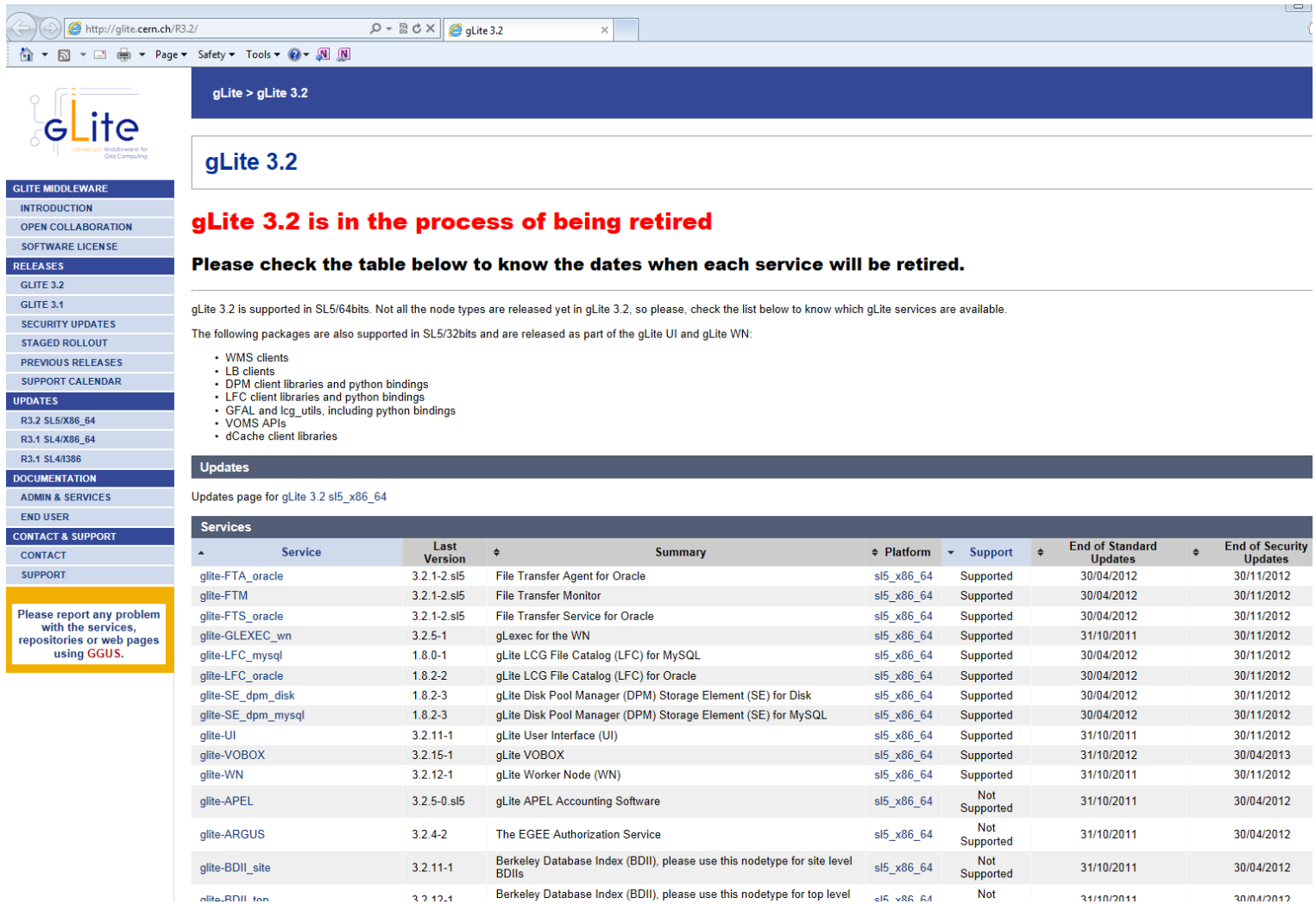
GDB September 2012



- Services:
  - we gave a recommendation for emi-1
    - Baseline Services page
    - services with long term state
    - services without state
  - relying on EGI staged rollout
    - overall a success
      - recently some incompatibilities observed
        - » CREAM-CE SL(6) ALICE
- Clients:
  - Started a validation for emi-1 WNs in spring
    - 6 sites, all experiments, the main SEs
  - **Didn't end with a clear result**

- 
- The infrastructure has not been keen to upgrade recently
    - Various reasons
      - ...some of them good
  - Leaves us with **obsolete** and **unsupported** middleware on performing critical tasks
    - ...on obsolete OS (Feb 2012 for SL4 family)
    - Recent experience gives concrete examples of the risks
  - The short/medium term does not offer a natural moment to upgrade
    - But we have to act to avoid future problems

- The good news...
  - A number of sites are running up to date middleware versions (and have shared their experience)
  - FTS 2.2.8 deployment is entirely EMI based
  - CREAM has been adopted and validated in the EMI release
    - No reasons not to upgrade...
  - DPM has a number of EMI deployments out there
  - ...etc
- Bad news...



**gLite 3.2 is in the process of being retired**

**Please check the table below to know the dates when each service will be retired.**

gLite 3.2 is supported in SL5/64bits. Not all the node types are released yet in gLite 3.2, so please, check the list below to know which gLite services are available.

The following packages are also supported in SL5/32bits and are released as part of the gLite UI and gLite WN:

- WMS clients
- LB clients
- DPM client libraries and python bindings
- LFC client libraries and python bindings
- GFAL and lcg\_utils, including python bindings
- VOMS APIs
- dCache client libraries

**Updates**

Updates page for gLite 3.2 sl5\_x86\_64

Service	Last Version	Summary	Platform	Support	End of Standard Updates	End of Security Updates
glite-FTA_oracle	3.2.1-2.sl5	File Transfer Agent for Oracle	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-FTM	3.2.1-2.sl5	File Transfer Monitor	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-FTS_oracle	3.2.1-2.sl5	File Transfer Service for Oracle	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-GLEXEC_wn	3.2.5-1	gLexec for the WN	sl5_x86_64	Supported	31/10/2011	30/11/2012
glite-LFC_mysql	1.8.0-1	gLite LCG File Catalog (LFC) for MySQL	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-LFC_oracle	1.8.2-2	gLite LCG File Catalog (LFC) for Oracle	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-SE_dpm_disk	1.8.2-3	gLite Disk Pool Manager (DPM) Storage Element (SE) for Disk	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-SE_dpm_mysql	1.8.2-3	gLite Disk Pool Manager (DPM) Storage Element (SE) for MySQL	sl5_x86_64	Supported	30/04/2012	30/11/2012
glite-UI	3.2.11-1	gLite User Interface (UI)	sl5_x86_64	Supported	31/10/2011	30/11/2012
glite-VOBOX	3.2.15-1	gLite VOBOX	sl5_x86_64	Supported	31/10/2012	30/04/2013
glite-WN	3.2.12-1	gLite Worker Node (WN)	sl5_x86_64	Supported	31/10/2011	30/11/2012
glite-APEL	3.2.5-0.sl5	gLite APEL Accounting Software	sl5_x86_64	Not Supported	31/10/2011	30/04/2012
glite-ARGUS	3.2.4-2	The EGEE Authorization Service	sl5_x86_64	Not Supported	31/10/2011	30/04/2012
glite-BDII_site	3.2.11-1	Berkeley Database Index (BDII), please use this nodetype for site level BDII	sl5_x86_64	Not Supported	31/10/2011	30/04/2012
glite-BDII_top	3.2.12-1	Berkeley Database Index (BDII), please use this nodetype for top level	sl5_x86_64	Not	31/10/2011	30/04/2012

Please report any problem with the services, repositories or web pages using **GGUS**.



- Obsolete middleware must be upgraded.
- “2” is better than “1”
  - EMI, UMD...
  - Much closer to how things will look post-EMI
- EGI will be following this up via NGIs.
- **WLCG** sites and experiments:
  - Balance between progress and stability
    - limited acceptance of risks
  - Unsupported software has risks and costs
  - Problems with WN & UI (ie the clients) need to be understood
    - Inc tarballs, Application area releases

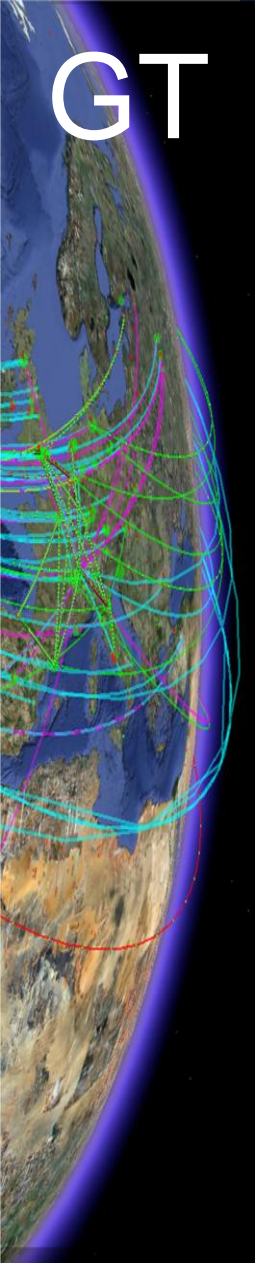
- Not a request for panic mass-upgrades
- Validation by WLCG experiments has to start
  - the EGI rollout doesn't cover the experiments explicitly
- There is **no perfect moment** to wait for
  - the long shutdown isn't a vacation from computing
- gLite is obsolete
  - DPM/LFC have a couple of months
  - Clients have a couple of months
- The advantages
  - Supported software
  - More reliable software
  - Better performing software ( including new features )

- A group of willing sites have agreed to install the EMI2/SL5/64bit WN and make queues available
  - SL6 will follow
- Uses the EMI testing repository
  - Updates can be immediately produced
    - Bypassing EMI release process
  - A full client release (tarball etc.) will happen after WN validation
  - At this point the infrastructure can start upgrading
- Problem: **Coordination and effort**



- Sites involved:
  - **DESY**: dCache, ATLAS and CMS
  - **CERN**: Castor and EOS, ATLAS and CMS
  - **Rutherford**: CASTOR, ATLAS and CMS ??
  - **Brunel**: DPM, CMS
  - **INFN-Napoli**: DPM, ATLAS
  - **INFN-CNAF**: STORM, ATLAS and CMS
- All work based on best effort
  - difficult to plan
  - experiments can start only after the sites have moved
  - Request for emi-2 test queues September 3<sup>rd</sup>
    - 3 replies

- Setup a page to track progress
  - get emi-2 / SL5 WNs verified
- Expand to services
- We need a more formal collaboration
  - this will increase overall efficiency
    - now individual sites and experiments cooperate locally
    - very difficult to get a reliable global view



- Discussions on software lifecycle process is on-going
  - discussion of WLCG needs with EGI/EMI have started
  - a proposal prepared for the next WLCG-MB
- General approach
  - as much independence between PTs as possible
  - **you need it, you provide it**
    - there will be no one else ☺
    - support for batch systems, re-locatable clients etc.
    - this is already happening, but sharing is slow