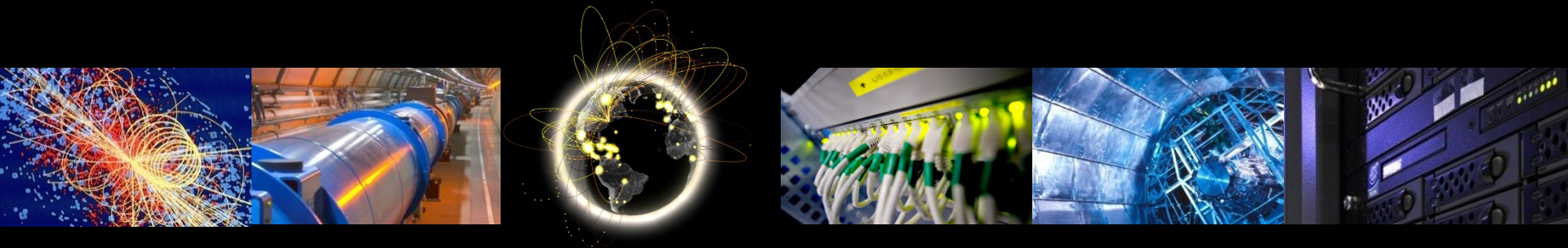


WLCG Middleware Support

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Overview

- Current Situation
 - NDGF (ARC)
 - OSG (OSG)
 - gLite-3.2 (3.1)
 - dCache
 - EGI
- EMI-0
- EMI-1
- EMI-2
- Suggestion for WLCG

Current Situation

- The 3.5 Empires
- OSG
 - Manages their releases independently of EMI
 - Interoperability
 - Was taken for granted for a while
 - Ruth raised the awareness and there are now weekly meetings
 - Anthony Tiradani from FNAL is coordinating this
- NDGF
 - Didn't verify, but assume until EMI-1 they manage the ARC releases
- dCache
 - gLite releases still include dCache
 - Very limited usage
 - dCache (DESY) produce their own releases
 - These are used and are popular
 - Discussed at the WLCG-T1-Service Coordination M. (WTSCM)

Current Situation

- gLite: gLite-3.2/1
 - gLite-3.1 (SL4)
 - Service dependent, minor fixes, end of life in sight
 - gLite-3.2 (SL5)
 - Split in responsibilities as agreed in 2010 only partially worked
 - YAIM moved to a new home
 - gLite EMT de facto defunct
 - some discussions by e-mail
 - De facto coordination by Maria Alandes (CERN)
 - Patch prioritisation in WLCG T1 Service Coordination Meeting
 - Lots of informal contacts
 - New material is announced in several places
 - » EGI broadcast, LCG-Rollout,
 - » gLite release web pages are alive and well
 - New content management system in place (thanks Pablo)
 - Release preparation done by CERN
 - UI/WN/Vobox with CERN outside EMI

Current Situation

- EGI
 - I don't know what EGI does for ARC at the moment..
 - Coordinates for gLite-3.2/3.1 the Staged Rollout
 - CERN monitors the progress for WLCG
- gLite repositories and documentation are hosted and managed by CERN
 - Until we see the certification and release process in EMI/EGI firmly established we consider it wise to maintain process and infrastructure

Current Situation

- gLite build infrastructure, test-beds, repositories
 - Provided to a large extent by EMI (ETICS ++)
- Significant fraction of the personnel involved in the gLite release process are working for EMI
- Collaboration between EMI and WLCG quite close and works best on the informal level
 - On-going discussion on including the glite-CLUSTER in EMI is a good example

emi-0

- Integration exercise
 - Exercise finished
 - No impact on WLCG sites
 - Some resources required for the exercise
 - No major impact on middleware progress

emi-1

- Platform SL5 + EPEL
 - Very close to gLite-3.2 platform 😊
 - EPEL comes with strict rules for packaging and naming (less discussions 😊)
 - Sites on gLite-3.2 can't easily upgrade to emi-1
 - Re-installation is often required ☹
 - Motivation to re-install is low (no new platform)
 - 230 sites already on SL5 (glite-3.2) representing >80% of the CPU
 - gLite-3.2 will be maintained until emi-2 😊
 - What is the meaning of “maintained”??
 - Maintained == security patches and critical bug fixes
 - Maintained == same functionality as in emi-1
 - The interpretation differs between Product Teams ←
- EMI-1 will be the basis for the first UMD release
 - A few month later

emi-1

- gLite-3.2 / emi-1 Functionality
 - For many components identically
 - Seems to be decided by Product Team
 - Example: VOMS-2.0 will be released for emi-1 only
 - Private communication between Vincenzo and Maria
 - Impact on other components isn't clear
- Build and Packaging
 - Different formats and dependencies
 - → gLite-3.2 requires independent certification
 - Packaging and build automated by ETICS from same source
 - Certification only partially automated

emi-2

- Will be based on SL5/SL6/DebianX (April 2012)
 - SL6 will be a strong motivator to move to emi-2
 - For sites still on gLite-3.2 in 2012 this transition will be disruptive
 - In the past new platforms have been introduced component by component
 - “Natural” sequence: WN, UI, Storage,
 - A busy weekend ahead

Summary

- EMI-1 will differ from gLite-3.2
 - Packaging and dependencies
 - Functionality depending on Product Team
- “Business as usual” ends for gLite sites with the release of EMI-1
- WLCG has to decide on strategy (sites, users)
 - Accelerated move to UMD ?
 - Deriving a gLite-3.x from EMI-1?
 - Holding on to gLite-3.2 until EMI-2?

Summary

- Emi-1 on SL5 is not very attractive for gLite sites
 - If you are already on SL5 (as most are)
 - Given the relative small functional differences
- What can be done:
- 1) extend gLite-3.2 support beyond emi-2
 - Maybe with WN on SL6???
 - This will reduce the pressure at the end of emi-1
- 2) release parts of emi-1 on SL6 early
 - Clients, Re-invention of the UI/WN???
 - To make it more attractive and smooth out the transition.
- 3) Force sites to install emi-1
 - Not likely to work
- For 1 and 2 extra effort is required.....

Open Question

- EPEL
 - Software can be released directly to EPEL
 - Uncertified software can reach the sites
 - How will this be handled???
 - Dependencies come from EPEL, you can't ignore it
 - A higher version of a grid component will be updated too, difficult to prevent
 - Should we maintain a WLCG repository with verified versions
- EGI – WLCG interferences ???
 - Not much of a problem up to now, no UMD has been released
 - Assume a T2 in the NGI-SomeWhere
 - WLCG requests GridServ.6.2 (in gLite-3.2)
 - EGI and NGI insists on UMD – X
 - Who wins? **T2 MoU or NGI membership?**

Summary

