



# EMI-0

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# Outline

- EMI-0
- Where we were
- Where we are
- What has to be done
- Why so slow
- Discussion



# EMI-0

- EMI-0 - 'exercise' release :
  - Apply agreed procedures
  - Find-out problems with tools and procedures
- Goal:
  - consistent, coherent repository of non-conflicting packages - **end of Oct. 2010**

High-priority – without it we cannot have  
EMI-1!

# Where we were

- 4 middleware stacks using different tools to manage their release process:
  - issues discussed and solution proposed - Configuration & Integration TaskForce
    - => [Integration & Configuration Guidelines](#)
  - Discussion & decisions taken during [EMT meetings](#)

# EMI-0 Guidelines

- use a common build, test and QA system => **ETICS**
- **Platforms:**
  - starting platform - SL5 x86\_64 with the following enabled YUM repositories: SL5 X86\_64, EPEL 5 x86\_64, glite 3.2 X86\_64 => new ETICS platform "sl5\_x86\_64\_gcc412EPEL"
  - To be added – SL5(32b), Deb5(32/64b)
- **Packaging:**
  - standard on the supported platforms.: rpms (RHEL5), debs (Debian)
- **External dependencies:**
  - default versions from OS YUM/APT repositories and EPEL
- [Build Configuration Guidelines](#):
  - new "emi" project - all the EMI configurations required to build will be part of this project
  - ETICS project-configuration - "emi\_R\_0"
  - No [.DEFAULT properties](#)
  - No [STATIC dependencies](#) – exceptions requested to the [EMT](#) upon emergency and approved.
  - Advice – no sub-system properties
- **EMI-0 repository:**
  - non conflicting, installable packages + all external components not coming with any of the standard mainstream repositories (OS repos, Fedora, EPEL, etc)

# Where we are

- EMI-0 status:
  - Success rate: 40% success, 60% failure
    - ARC – emi.arc
    - ARGUS – emi.argus
    - dCache – emi.dcache
    - DGAS – emi.dgas
    - InformatinSystem – emi.bdii
    - MPI – emi.mpi
    - UNICORE – emi.unicore
    - VOMS – emi.voms

# Where we are (2)

- Reason of failures:
  - [ERROR] Undefined property 'globus.location'
  - IO error scanning directory /usr/lib64/Pegasus
  - error: log4c.h: No such file or directory -> "-l/usr/lib64/include"
  - "/usr/lib64/mysql" - not found
  - error: ares.h: No such file or directory
  - Undefined property 'vdt\_globus\_essentials.location'
  - Undefined property 'LCG-DM.location'

# What has to be done

- Fix build failures
- Have packages (rpms) moved in the EMI repository
- Install them in the EMI testbed (?)
- Start building on SL5(32b) & Debian5 (32/64)



# Why so slow

- Defined as “exercise” was treated as “exercise”=less important
- no clear procedures or not well explained
- tools not ready (list of dependencies, images, configuration cloning)
- complexity of changes not well understood (treatment of external dependencies, dependencies on globus (VDT) -> globus-\* (EPEL))

**Late with EMI-0 -> late with EMI-1**

# Discussions

- Source packages?
  - Start work & deliver during EMI-1?
  - Means cleaning of configurations
    - Only configure && make:
      - no “—with-\*
      - no  $\${*}.location$
- Questions?



**Thank you**

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