



SA2: Quality Assurance Platforms for EMI 2

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SA2.4

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Supported platforms

- **Scientific Linux 5 (SL5)**
 - 32 & 64 bits versions
- **Scientific Linux 6 (SL6)**
 - 32 & 64 bits versions
- **Debian 6 (Deb6)**
 - 32 & 64 bits versions

Versions, names and repositories (I)

- **SL5**
 - Version 5.5
 - Names: `sl5_ia32_gcc412EPEL` and `sl5_x86_64_gcc412EPEL`
 - Minimal image with EPEL 5 repositories
- **SL6**
 - Version 6.0 or 6.1 (to be decided)
 - Names: `sl6_ia32_gccXXEPEL` and `sl6_x86_64_gccXXEPEL`
 - Minimal image with EPEL 6 repositories

Versions, names and repositories (II)

- **Deb6**
 - Version 6.0
 - Names: deb6_ia32_gccXX and deb6_x86_64_gccXX
 - Minimal image with **Open question:**
repositories to be used?

Number of nodes

		SL5 32*	SL5 64*	SL6 32*	SL6 64*	Deb6 32*	Deb6 64*
Currently	Build	6 (2)	15 (3)	0	0	0	0
	Test	0	7 (0)	0	0	0	0
Future	Build	6 (2)	15 (3)	2 (1)	2 (1)	2 (1)	2 (1)
	Test	0	7 (0)	0	0	0	0

* X (Y) → Total number of nodes (number of high performance nodes)

- Number of nodes in the new platforms will grow depending on their demand

Availability timeline (I)

- **SL5**
 - All nodes already in place
- **SL6**
 - Work on this platform already started
 - Incompatibility with the current virtualization system: only one CPU virtual machines are supported at the moment
 - Backup plan
 - **Open question: When has this to be available?**

Availability timeline (II)

- **Deb6**
 - Creation of a new minimal images
 - Even if the platform is in place, builds can not be done until changes are done:
 - ETICS Client
 - package creation (pbuilder integration)
 - package installation
 - Repositories
 - EMI APT repository
 - **Open question: are ETICS repositories needed?**
 - Support from Debian experts needed (ARC, DCache)

EMI configuration options (I)

- Option one:
 - One configuration with the three platforms inside

The screenshot displays two panels from an IDE. The left panel, titled 'Project', shows a tree view of 'All ETICS Projects'. Under the 'emi' project, there are sub-projects: 'amga' (with sub-projects 'amga-cli', 'amga-server', and 'glite-AMGA_postgres'), 'apel', 'arc', 'argus', 'bdii', 'cluster', 'compat-libraries', and 'cream-ce'. The right panel, titled 'Workspace', shows 'My Workspace' containing a folder 'emi_2_dev'. This folder contains various platform configurations such as 'CERN Scientific Linux 6 (x86_64) BETA with gcc', 'Debian Linux 5.0 (ia32) with gcc 4.3.2', 'Debian Linux 5.0 (x86_64) with gcc 4.3.2', 'Default platform', 'EPEL-Custom: Scientific Linux 5 (ia32) with gcc', and 'EPEL-Custom: Scientific Linux 5 (x86_64) with gcc'. Below these are several 'emi-apel-*_B_HEAD' folders and other configuration files like 'emi-arc_R_1_0_0_3' and 'emi-argus_R_1_3_0_7_EMI1'. At the bottom, a 'Configurations' panel shows 'emi_2_dev' selected.

EMI configuration options (II)

- Option two:
 - One configuration per platform

The screenshot displays the EMI configuration interface, divided into two main panels: **Project** and **Workspace**.

Project View: Shows a tree structure under "All ETICS Projects". The "emi" project is expanded, revealing several sub-projects: "amga" (with sub-projects "amga-cli", "amga-server", and "glite-AMGA_postgres"), "apel", "arc", "argus", "bdii", "cluster", "compat-libraries", and "cream-ce".

Workspace View: Shows "My Workspace" containing a folder named "emi_1_dev_sl5". This folder contains a "Default platform" and a list of various platform configurations, such as "EPEL-Custom: Scientific Linux 5 (ia32) with gcc", "emi-amga_R 2_1_2_1", "emi-apel_R 3_2_7_0", "emi-arc_R 1_0_0_3", "emi-argus_R 1_3_0_7_EMI1", "emi-bdii_R 1_0_0_1", "emi-cluster_R 1_0_1_1", "emi-cream-ce_R 1_13_1_3", "emi-cream-ui_R 1_13_1_3", "emi-dcache_R 1_0_0_1", "emi-delegation_R 2_1_0_1", "emi-dgas_R 4_0_2", "emi-fts-clients_R 2_2_6_2", "emi-gridsite_R 1_7_13_1", "emi-java-security_R 3_0_3_1", "emi-jdl_R 3_2_5_4", "emi-jobid_R 2_0_3_6", "emi-lb_R 3_0_10_1", and "emi-lbjp-common R 3_0_4_2".

Configurations Panel: Located at the bottom, it shows a list of configurations: "emi_1_dev_" (highlighted in yellow), "emi_1_dev_sl5", "emi_1_dev_sl6", and "emi_1_dev_deb6".

EMI configuration options (III)

One configuration with three platforms	One configuration per platform
✔ Only one configuration to maintain	✘ Three configurations to maintain
✘ Changes could affect the builds on other platforms	✔ Completely independent of changes in the other platforms
✘ It is not possible to add/remove or use different components configurations depending on the platform	✔ Component configurations can be different and added/removed without affecting the other platform
✔ Easy to build in different platforms	✘ The manual build task take more time as they are three different submissions

Access to the nodes

- **Via ETICS system**
 - To build and test using the web interface or the client
- **Requested by email**
 - **Temporary access**
 - **Exceptional cases**
 - **Availability:**
 - Last five checkpoints of the node available
 - Empty nodes



Thank you

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