

# EUROPEAN MIDDLEWARE INITIATIVE

## MJRA1.19.1 - INTEGRATED EMI MAJOR RELEASE CANDIDATES

### EC MILESTONE: MS44

---

Document identifier: **EMI-MS44\_v1.0.doc**

Date: **28/02/2011**

Activity: **JRA1**

Lead Partner: **JUELICH**

Document status: **Final**

Document link: <http://cdsweb.cern.ch/record/1277593>

---

**Copyright notice:**

Copyright (c) Members of the EMI Collaboration. 2010-2011.

See <http://www.eu-emi.eu/about/Partners/> for details on the copyright holders.

EMI ("European Middleware Initiative") is a project partially funded by the European Commission. For more information on the project, its partners and contributors please see <http://www.eu-emi.eu>.

This document is released under the Open Access license. You are permitted to copy and distribute verbatim copies of this document containing this copyright notice, but modifying this document is not allowed. You are permitted to copy this document in whole or in part into other documents if you attach the following reference to the copied elements: "Copyright (C) 2010-2011. Members of the EMI Collaboration. <http://www.eu-emi.eu>".

The information contained in this document represents the views of EMI as of the date they are published. EMI does not guarantee that any information contained herein is error-free, or up to date.

EMI MAKES NO WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, BY PUBLISHING THIS DOCUMENT.

### Delivery Slip

	Name	Partner / Activity	Date	Signature
<b>From</b>	Morris Riedel	JUELICH/JRA1	31/05/2011	
<b>Approved by</b>	PEB		07/06/2011	

### Document Log

Issue	Date	Comment	Author / Partner
0.1	25/05/2011	Initial structure after PO clarifications	Morris Riedel / JUELICH
0.2	31/05/2011	Integrating review comments and updates of DJRA1.7.2 SW Development Quality Control Report	Morris Riedel / JUELICH
1.0	07/06/2011	v1.0 approved by PEB	PEB

### Document Change Record

Issue	Item	Reason for Change

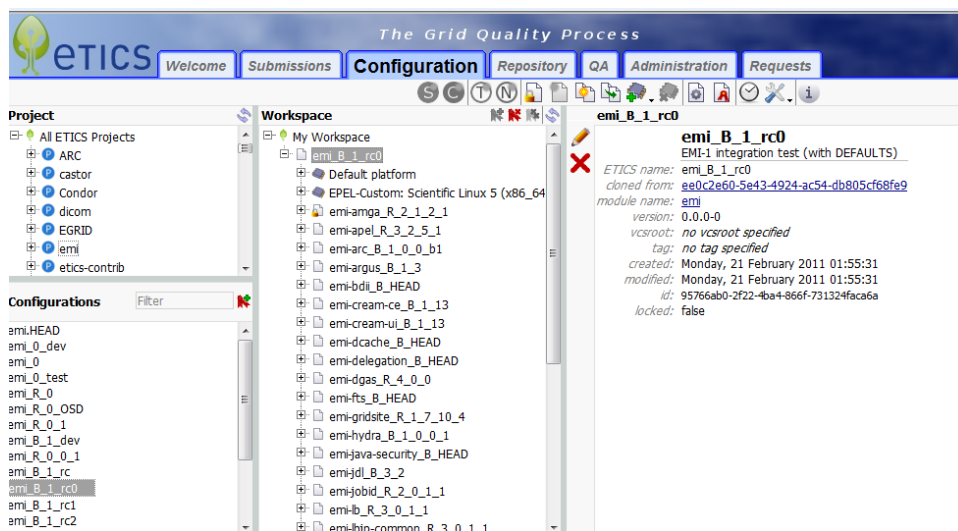
## 1. MILESTONE REPORT

This milestone indicates the success of enforced quality validation procedures for EMI components developed by JRA1 to be handed over to SA1 as an integrated Release Candidate for inclusion in the official EMI Reference Release EMI 1.

The milestone is organised in two main achievements:

- 1) the development of a set of components delivering the functionality foreseen by the Technical Development Plan and integrated with the reference operating system (SL5 64bit), among themselves and with external third-party dependencies
- 2) The actual application and validation of the quality assurance policies defined by SA2

The first configuration of the EMI integrated Release Candidate, RC0, was created on February 21<sup>st</sup> and transitioned from JRA1 to SA1 February 25<sup>st</sup>.



Although not all Product configurations were fully tagged, all the required components were present and compliant with the FHS requirements of the Fedora guidelines adopted by EMI for integration with the operating system. In addition the integration objectives of adopting a single set of external dependencies and in particular the Globus components from EPEL were met.

The internal certification and validation procedures were started after the transition to SA1 and were done by the Product Teams according to what specified by the SA2 software quality assurance policies [R1] and under the coordination of the EMI Release Manager. It is foreseen to start the certification activities before the actual transition for the next major release cycle in 2012.

During the first year of EMI, although a number of software engineering metrics were collected, the JRA1 QC team could not yet consistently collect and analyse them. This will be done in the second year. However, a number of high-level process metrics were collected on the actual application of the policies by the JRA1 Product Teams. The details are reported in DRJA1.7.2 – Software Development

Quality Control Report [R2]. IN this report it is enough to show two sets of metrics, the percentage of compliance of the Product Teams with the Release and Certification policies (Figure 1) and the percentage of products coming with a defined test plan (Figure 2).

In the first case it can be observed that the percentage of the Product Teams complying with the release procedures defining the elements to associate to the software code when publishing a release candidate is high, but with definite room for improvement in the second year as the developers become more familiar with policies.

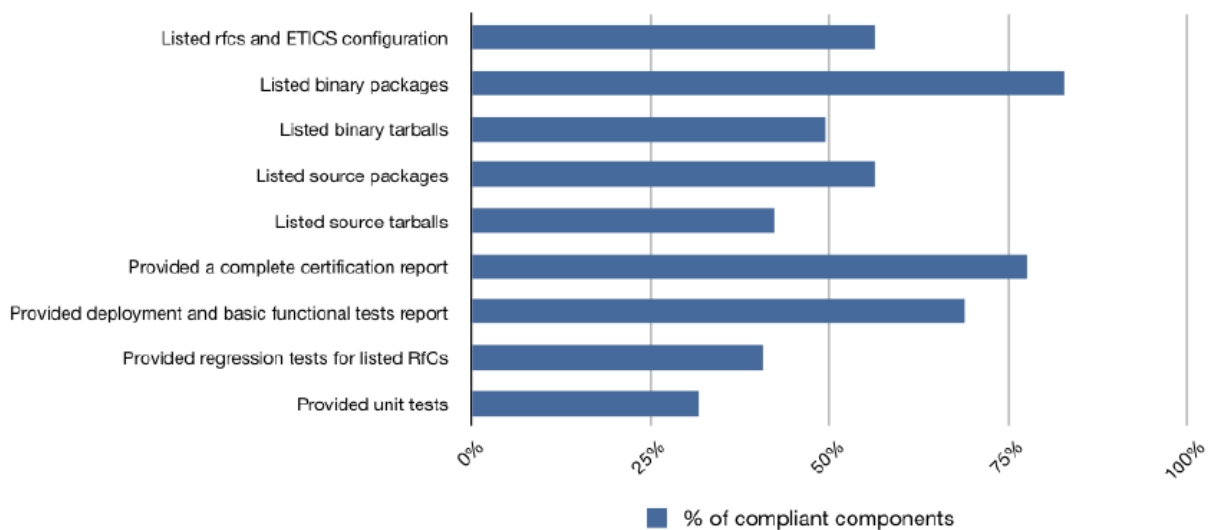


Figure 1: Compliance of the Product Teams with the Release and Certification policies

In the second case, it is possible to note that a very high percentage of the Products had a Test Plan by the final EMI 1 release date starting from a relative low 50% at the time of the internal EMI 0 release.

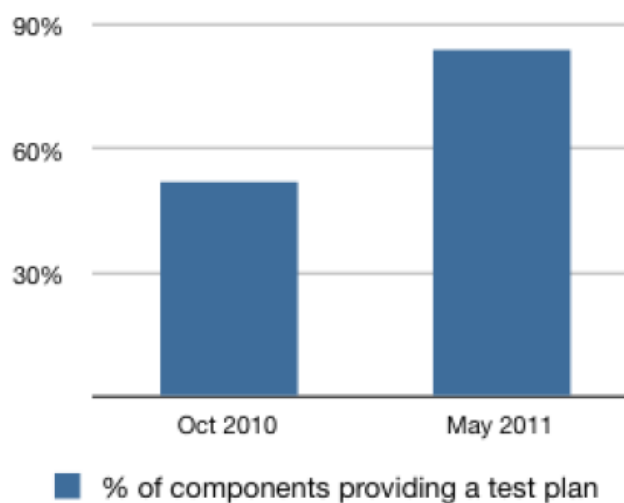


Figure 2: EMI components that provided a test plan

## REFERENCES

<b>R1</b>	DSA2.1 EMI Software Quality Assurance Plan <a href="https://twiki.cern.ch/twiki/pub/EMI/DeliverableDSA21/EMI-DSA2.1-1277599-QA_Planv1.2.pdf">https://twiki.cern.ch/twiki/pub/EMI/DeliverableDSA21/EMI-DSA2.1-1277599-QA_Planv1.2.pdf</a>
<b>R2</b>	DJRA1.7.2 Software Development Quality Control Report <a href="https://twiki.cern.ch/twiki/bin/view/EMI/DeliverableDJRA172">https://twiki.cern.ch/twiki/bin/view/EMI/DeliverableDJRA172</a>

**Table 1: Table of References**