

# EUROPEAN MIDDLEWARE INITIATIVE

## CERTIFICATION POLICY

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# EMI Certification Policy

## 1. Introduction

This document describes the EMI policy to be followed when certifying a new version of an EMI software productt.

## 2. Definition

**Certification** is the action done by a PT on a product tracked in a release task [R1] in order to certify that the PT has followed and applied the SA2 policies during the product development, documentation and testing phases.

## 3. Certification Report Template

The following template must be used by PTs to report about the actions performed when releasing a new version of their software products. The use of a common template will simplify the work of the QC task. The template below must be used by all PTs in order to certify a release task [R1].

```
*****
* EMI Certification Report *
*****
- Product:

- Release Task:

- ETICS Subsystem Configuration Name:

- VCS Tag:

- EMI Major Release:

- Platform:

- Author:

- Date:

- Certification Report Template : v. 3.1

*****

1. Release Task exists in the Release Tracker with core info properly provided:
  1.1. Proper product name AND version is specified [ Yes/No ]
  1.2. All the relevant RfCs are listed. [ Yes/No ]
  1.3. All the RfCs are "Tested" or "Not Tested" [ Yes/No ]

2. VCS tag is specified in the Release Task: [ Yes/No ]

3. The ETICS configuration is specified in the Release Task: [ Yes/No ]
  3.1. The ETICS configuration is locked: [ Yes/No ]
  3.2. The ETICS configuration can be built in ETICS without errors: [ Yes/No ]

4. Binary packages are available in EMI registered repo:
  4.1. rpms [ Yes/No ]
  4.2. tarballs [ Yes/No ]

5. Source packages are available in EMI registered repo:
  5.1. rpms [ Yes/No ]
  5.2. tarballs [ Yes/No ]
```

- 6. List of binary packages are specified in the Release Task: [ Yes/No ]
- 7. List of source packages are specified in the Release Task: [ Yes/No ]
- 8. Licence information is provided in the Release Task and the product has an "EMI-compatible" licence: [ Yes/No/NA ]

\*\*\*\*\*  
 Testing  
 \*\*\*\*\*

- 9. The deployment of the new version of the product from the EMI repo performed by the PT was succesful: [ Yes/No ]
- 10. The Product Test Plan URL is specified in the Release Task: [ Yes/No ]
- 11. The Product Test Report is attached to the Release Task: [ Yes/No ]
- 12. The Test Report contains result/logs of :
  - 12.1. static code analysis: [ Yes/No/NA ]
  - 12.2. unit tests: [ Yes/No/NA ]
  - 12.3. deployment tests: [ Yes/No/NA ]
  - 12.4. functionality tests: [ Yes/No/NA ]
  - 12.5. regression tests: [ Yes/No/NA ]
  - 12.6. standard conformance tests: [ Yes/No/NA ]
  - 12.7. performance tests: [ Yes/No/NA ]
  - 12.8. scalability tests: [ Yes/No/NA ]

\*\*\*\*\*  
 Documentation  
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- 13. Component Release Notes are provided in the task: [ Yes/No ]
- 14. Are there documentation changes in this release? [ Yes/No ]
- 15. If Yes, are the changes reported in the Component Release Notes? [ Yes/No/NA ]
- 16. Up-to-date Minimum Required Documentation URLs are specified in the Release Task for:
  - 16.1: Functional Description [ Yes/No/NA ]
  - 16.2: User Guide [ Yes/No/NA ]
  - 16.3: Client Installation and Configuration [ Yes/No/NA ]
  - 16.4: System Administrator Guide [ Yes/No/NA ]
  - 16.5: Service Reference Card [ Yes/No/NA ]

\*\*\*\*\*  
 REMARKS:

### 3.1. Certification Report in detail

Certification Report Header:

- **Product:** EMI software product as specified in DNA1.3.2 - Technical Development Plan [R3].
- **Release Task:** URL of the Savannah Release Task [R1] where the new version of the product is tracked.
- **ETICS Subsystem Configuration Name:** Comma separated list (if more than one) of the ETICS Subsystem Configuration Names used to build the new packages included in the new version of the product.
- **VCS Tag:** Comma separated list (if more than one) of the VCS tags used to build the new packages included in the new version of the product.

- **EMI Major Release:** EMI 1, EMI 2 or EMI 3.
- **Platform:** Name of the platform where the new version of the product is released (free text. i.e. sl5\_x86\_64 or SL5/64)
- **Author:** Name of the person within the PT who did the certification.
- **Date:** DD.MM.YYYY

Certification Report Checklist: Please, answer the different items from 1 to 16, by writing at the end of each question: Y/Yes, N/No or NA, respecting this syntax.

## 4. Certification Report Name

In order to automate the QC task, the name of the certification report attached to the release task must contain the words `cert` and `report`. The case is not sensitive, so both upper and lower case is allowed. Some valid examples are: `VOMS_certification_report_1.1.txt` or `ReportCert_CREAM1.2.txt`.

## 5. Certification Process

PTs must certify that they have followed and applied the SA2 policies while developing, documenting and testing any new version of their software products.

Certifying a new version of a product has to be **ALWAYS** done for each EMI major release and supported platform, including Emergency Releases. For example, imagine EMI-1 and EMI-2 are the two major EMI releases supported, and you have to do a minor release of product `emi-sherpa` which fixes some bugs present in both EMI-1 and EMI-2. Imagine that EMI-1 is supported in SL5 and EMI-2 is supported in SL6 and Debian 6. You will need to certify:

- `emi-sherpa` for EMI-1 SL5
- `emi-sherpa` for EMI-2 SL6
- `emi-sherpa` for EMI-2 Debian 6

The certification report is the output of the certification process. The certification report must be included in the corresponding release task tracked in the EMI release tracker [R1].

Follow the EMI Release Check List [R2] to know what needs to be done, step by step, to release a new EMI software product version and use the Certification Template at the same time to report on every completed step.

## 6. Contacts

EMI SA2

## 7. Table of References

Reference	URL
R1	EMI Release Tracker <a href="https://savannah.cern.ch/task/?group=emi-releases">https://savannah.cern.ch/task/?group=emi-releases</a>
R2	EMI Release Check List <a href="https://twiki.cern.ch/twiki/bin/view/EMI/EMIReleaseChecklist">https://twiki.cern.ch/twiki/bin/view/EMI/EMIReleaseChecklist</a>
R3	EMI Technical Development Plan <a href="https://twiki.cern.ch/twiki/pub/EMI/DeliverableDNA132">https://twiki.cern.ch/twiki/pub/EMI/DeliverableDNA132</a>

## 8. Logbook

### v3.1 (approved 01.08.2011)

- *01.08.2011:*
  - ◆ as discussed at the EMT, adding a specific section about the certification report name syntax.
  - ◆ ARC feedback: adding a section to explain in detail de different parts of the report.
  - ◆ Changed `component` with `product` where applicable.

### V3.0 (approved 28.07.2011)

- *27.07.2011:*
  - ◆ Added certification report template version since this is needed for the QC Dashboard.
- *13.07.2011:*
  - ◆ Reorganisation of the report.
  - ◆ Added information on documentation changes + confirmation that this is reported in the release notes.
  - ◆ Changed `Fixed` with `Tested/Not Tested` for the RfCs.
  - ◆ Added that ETICS configurations have to be locked.
- *31.03.2011:* Update certification report: aligned certification report with documentation policy.

### v2.0 (approved 17.03.2011)

- *17.03.2011:*
  - ◆ Feedback from Balasz after RC1 exercise:
    - ◇ Update Certification Report. Point 13 should state whether RfCs have been fixed or not, instead of describing whether they have been certified or not.
    - ◇ Update Certification Report: New Point 14 to confirm whether succesfull in-house deployment of the Component has happened. \* Feedback from Krysztof (UNICORE):
    - ◇ Update Certification Report: Add specific check for rpms and tarballs for sources and binaries.

### v1.0 (approved 28.02.2011)

- *03.03.2011:* feedback from training. Improve Certification Report template to clarify that ETICS configuration name refers to the subsystem. (I'm not creating a new version because of this change since it's a minor change).
- *22.02.2011:* meeting with PEB. Improvements done after their feedback.
- *21.02.2011:* First draft prepared.

