

EUROPEAN MIDDLEWARE INITIATIVE

SOFTWARE MAINTENANCE QUALITY CONTROL REPORT

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Abstract:

This document describes the status and performance of the quality control task with details on the availability and execution of regression tests for the supported EMI components, the test unit availability and coverage and various static and dynamic metrics on released components.

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1. INTRODUCTION

1.1. PURPOSE

The Software Maintenance and Quality Control reports should summarize the results of the Software Release Plan Review, Software Release Schedule Review and Software Maintenance and Support Plan Review. It should also contain details on availability and execution of regression tests for the supported EMI components and various metrics on released components.

1.2. DOCUMENT ORGANIZATION

1.3. REFERENCES

R1	Quality Assurance Plan
R2	Software Developments Plan
R3	Quality Assurance Metrics
R4	Quality Assurance Guidelines
R5	
R6	

DOCUMENT AMENDMENT PROCEDURE

<The text can be adapted if needed in case the deliverable needs special amendment procedures. Otherwise leave it as it is.>

This document can be amended by the authors further to any feedback from other teams or people. Minor changes, such as spelling corrections, content formatting or minor text re-organisation not affecting the content and meaning of the document can be applied by the authors without peer review. Other changes must be submitted to peer review and to the EMI PEB for approval.

When the document is modified for any reason, its version number shall be incremented accordingly. The document version number shall follow the standard EMI conventions for document versioning. The document shall be maintained in the CERN CDS repository and be made accessible through the OpenAIRE portal.

To be adapted in accordance to the procedure defined in the Quality Assurance Plan.



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1.4. TERMINOLOGY

<XYZ>	<Description and references if needed>

2. EXECUTIVE SUMMARY

3. QUALITY CONTROL INPUTS

This paragraph presents the organization of the quality control activity and the list of the documents or deliverables that it receives as input.

3.1.1 Quality Assurance Plan

Quality Checklists

A checklist is a structured tool used to verify that a set of required steps has been performed.

This sub-paragraph includes the checklist descriptions which have been defined into the Quality Assurance Plan.

Quality Metrics

A quality metric is an operational definition that describes, in very specific terms, a project or product attribute and how the quality control process will measure it.

This sub-paragraph includes the metrics which have been defined within the Quality Assurance Plan for the SA1 Quality Controls.

Approved change requests

This sub-paragraph includes all the changes, if any, that have been approved, or not, during the revision of the last quality control report. Approved change requests can include modifications to the work methods or to the schedule. The implementation of approved changes needs to be verified.

4. QUALITY CONTROLS

4.1. REVIEW OF THE SOFTWARE RELEASE PLAN

4.1.1 Checklists

The list of the measurements/checks for the checklist defined for this quality control.

(<https://twiki.cern.ch/twiki/bin/view/EMI/SAIQCPM6>)

4.1.2 Quality Control Measurements

The list of the measurements for the metrics defined for this quality control.

4.1.3 Change requests

Change requests to take corrective action or preventive action for improving quality performance.

4.1.4 Validated changes

Any accepted change need to be validated. The first quality control will not report – obviously – any previous change.

4.1.5 Validated Deliverables

A goal of quality control is to determine the correctness of deliverables. Thus the results of the execution quality control processes are validated deliverables. The list of the deliverable that this quality control validates will be reported here.

4.1.6 Variations for the previous report

Any variations from the previous report, either positive or negative, will be reported here.

4.1.7 Tentative forecast

Future outcomes on the base of historic information: difficult to realize

4.2. REVIEW THE SOFTWARE RELEASE SCHEDULE

4.2.1 Checklists

The list of the measurements/checks for the check list defined for this quality control.

(<https://twiki.cern.ch/twiki/bin/view/EMI/SAIQCPM6>)

4.2.2 Quality Control Measurements

The list of the measurements for the metrics defined for this quality control.

4.2.3 Change requests

Change requests to take corrective action or preventive action for improving quality performance.

4.2.4 Validated changes

Any accepted change need to be validated. The first quality control will not report – obviously – any previous change.

4.2.5 Validated Deliverables

A goal of quality control is to determine the correctness of deliverables. Thus the results of the execution quality control processes are validated deliverables. The list of the deliverable that this quality control validates will be reported here.

4.2.6 Variations for the previous report

Any variations from the previous report, either positive or negative, will be reported here.

4.2.7 Tentative forecast

Future outcomes on the base of historic information: hard to realize

4.3. REVIEW THE SOFTWARE MAINTENANCE AND SUPPORT PLAN

4.3.1 Checklists

4.3.2 Quality Control Measurements

4.3.3 Change requests

4.3.4 Validated changes

4.3.5 Validated Deliverables

4.3.6 Variations for the previous report

4.3.7 Tentative forecast

4.4. SECURITY ASSESSMENTS

Contribution from Elisa Heymann (UAB) is mandatory here.

4.4.1 Checklists

4.4.2 Quality Control Measurements

4.4.3 Change requests

4.4.4 Validated changes

4.4.5 Validated Deliverables

4.4.6 Variations for the previous report

4.4.7 Tentative forecast

4.5. REGRESSION TEST

4.5.1 Definition

TBD

4.5.2 Test results

TBD

5. CONCLUSIONS