

EUROPEAN MIDDLEWARE INITIATIVE

REVIEW OF THE SOFTWARE RELEASE PLAN

PM6

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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 Quality Control (QC) verifies the application of Quality Assurance (QA) processes and procedures and, through the execution of period reviews, reports the status and performance of the SA1 work. Quality Control report is meant to provide an aggregated view of quality inspection results and performance measurements, and to highlight which changes are necessary to correct anomaly or nonconformity discovered during the review. The change requests are submitted to the QA board that, on the base of project's priorities, determines which can be approved and then applied, which require further evaluations and which are discarded.

1.2. REFERENCES

R1	Quality Assurance Plan , https://twiki.cern.ch/twiki/bin/view/EMI/DeliverableDSA21
R2	Quality Assurance Metrics , https://twiki.cern.ch/twiki/bin/view/EMI/TSA23
R3	Quality Assurance Wiki Page , https://twiki.cern.ch/twiki/bin/view/EMI/SQAP
R4	Software Release Plan , https://twiki.cern.ch/twiki/bin/view/EMI/DeliverableDSA12
R5	Software Maintenance and Support Plan , https://twiki.cern.ch/twiki/bin/view/EMI/DeliverableDSA11
R6	Technical Development Plan , https://twiki.cern.ch/twiki/bin/view/EMI/DeliverableDNA131
R7	Release Management Wiki Page , https://twiki.cern.ch/twiki/bin/view/EMI/TSA13
R8	Configuration and Integration guidelines , https://twiki.cern.ch/twiki/bin/view/EMI/EmiSa2ConfigurationIntegrationGuidelines
R9	Certification and testing guidelines , https://twiki.cern.ch/twiki/bin/view/EMI/EmiSa2CertTestGuidelines
R10	Change management guidelines , https://twiki.cern.ch/twiki/bin/view/EMI/EmiSa2ChangeManagementGuidelines
R11	DSA2.2.1 - QA Tools Documentation , https://twiki.cern.ch/twiki/bin/edit/EMI/DeliverableDSA221?topicparent=EMI.EmiDeliverables;nowysiwyg=1
R12	Certification report Template , https://twiki.cern.ch/twiki/bin/edit/EMI/EMICertificationReportTemplate
R13	Software Verification and Validation Template , https://twiki.cern.ch/twiki/bin/view/EMI/SoftwareVerAndValTemplate
R14	Quality Control Report PM6 , https://twiki.cern.ch/twiki/bin/view/EMI/SA1QC6
R15	Software Quality Assurance Plan Documentation , https://twiki.cern.ch/twiki/bin/view/EMI/SQAP#SQAP_Documentation
R16	Firs Principles Vulnerability Assessment , http://www.cs.wisc.edu/mist/VA.pdf
R17	Review of the Software Release Plan ,

	https://twiki.cern.ch/twiki/bin/view/EMI/SA1QCRSRP
R18	Review of the Software Release Schedule, https://twiki.cern.ch/twiki/bin/view/EMI/SA1QCRSRS
R19	Review of the Software Maintenance and Support Plan, https://twiki.cern.ch/twiki/bin/view/EMI/SA1QCRSMSP
R20	Review of the Security Assessments, https://twiki.cern.ch/twiki/bin/view/EMI/SA1QCRSA

DOCUMENT AMENDMENT PROCEDURE

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.

1.3. TERMINOLOGY

ABI	Application Binary Interface
API	Application Programming Interface
CDS	CERN Document Server
DCI	Distributed Computing Infrastructure
DMSU	Deployed Middleware Support Unit
EGI	European Grid Infrastructure
EMT	Engineering Management Team
ETICS	eInfrastructure for Testing, Integration and Configuration of Software
FPVA	First Principles Vulnerability Assessment
GGUS	Global Grid User Support
ITIL	IT Infrastructure Library
KPI	Key Performance Indicator
kSLOC	Kilo Source Lines Of Code
MCB	Middleware Coordination Board
NGI	National Grid Initiative



EUROPEAN MIDDLEWARE INITIATIVE

PEB	Project Executive Board
PTB	Project Technical Board
QA	Quality Assurance
QC	Quality Control
RfC	Request for Change
SLA	Service Level Agreement
SQAP	Software Quality Assurance Plan
SU	Support Unit

2. EXECUTIVE SUMMARY

Performing Quality Control is specifically concerned with monitoring work results to see whether they comply with the standards set out in the SQAP defined in SA2 [R1]. Operating throughout the project, it aims to identify and remove the causes of unacceptable results from a product and a release schedule perspective. Basically, all the releases of EMI components need to satisfy well-defined certification and validation criteria before being included in a stable EMI distribution, sufficient to guarantee to a high degree of confidence that all EMI products meet the requirements set by our direct customers and that no regression is introduced in the software code.

At the time of writing (PM6) there is no official EMI release available and no real measurements and checks can be effectively collected or executed. Nevertheless, the change requests present in the following paragraphs are intended to be effective and for each of them a response, according to the review procedures established in the SQAP, is expected. The change requests, corrective and preventive, can contribute to the improvement of the project quality and should be noted in the project's documentation for ensuring their traceability.

2.1. REVIEW OF THE SOFTWARE RELEASE PLAN

The aim of the Review of the Software Release Plan is to check that the release plan is up to date and that describes the actual release process.

The Software Release plan is available at [R4].

2.1.1 Input

Checklists

- *Checklist for the Review of the Software Release Plan [R18].*

Metrics

- *No metrics defined for this review.*

Approved change requests

- *No previous approved changes defined for this review.*

Deliverables

- *Software Release Plan [R4].*

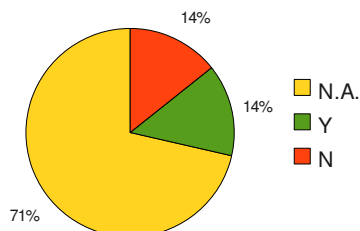
2.1.2 Output

Completed Checklist

Check Number	Question	Response
1	Does the list of supported platforms correspond to the actual set of platforms on which software components are released?	N.A.

	<i>see [R4], chap. 5</i>	
	<i>see [R8]</i>	
	<i>see [R7]</i>	
2	Is the installation of external dependencies well documented?	N
	<i>see http://eticssoft.web.cern.ch/eticssoft/internal/public/VMWareImages/EMI_SL5_x86_64_EPEL_rpmlist.txt</i>	
	<i>see [R8]</i>	
3	Are instructions to build the software up to date?	Y
	<i>see [R8]</i>	
4	Is the list of supported delivery software formats up to date (source and binary packages, tarball, package lists, etc)?	N.A.
	<i>see [R4], par. 4.5.5</i>	
5	Is the description of the process on how to handle changes up to date?	N.A.
	<i>see [R4], par. 4.2</i>	
	<i>see [R10]</i>	
6	Are the communication channels published with updated information?	N.A.
	<i>see [R4], par. 4.5.5</i>	
7	Is the process on how to deliver software to the Production Infrastructures up to date and it's aligned to what the Production Infrastructures are expecting?	N.A.
	<i>see [R4], chap. 4.5.5</i>	

Table 1: Review of the Software Release Plan (N.A. = Not Available)



- 71% of the checks returned N.A. (The N.A. response means that the information to perform the check is not available)
- 14% of the checks returned N
- 14% of the checks returned Y

Measurements

There are no measurements for this review.

Comments

The table below (Table 2) reports specific comments for the checks that have returned a non-satisfactory response (i.e. N.A. or N). Although this review is only meant to give an overview of the current degree of quality compliance and will not have any effective impact on the prosecution of the work, it strongly recommended to take all the comments in account and to take corrective actions in response to the change requests listed for this review.

In addition, starting from the next review, the information needed to perform review's checks will be **exclusively** collected from the Software Release Plan and no other information sources, or external documents, will be considered. Each QC review will also refer to a specific version of the Software Release Plan to avoid that any non-documented change to the plan could invalidate the review outcomes.

Check Number	Comment
1	Since no EMI components have been release yet, the check cannot be performed. The information that is necessary to make the comparison is not available. The list of supported platforms will be gathered from the Installation Guide that will be released with the software. The Installation Guide is one of the required documents as defined in the SQAP.
2	Whether the check is referring to the installation of external dependencies in ETICS or to the installation of external dependencies for the deploy of the EMI components, no documentation is available in both cases.
4	No list available.
5	No information on how to handle changes to the Software Release Plan is available.
6	No communication channels are defined in any of the available documents.
7	The current release of the Software Release Plan does not contain any information regarding the delivery process of EMI components, either it does not mention which the Production Infrastructure requirements are and how EMI intends to address them.
	According to the SQAP, the documents governing the development, verification and validation, use and maintenance of the software processes should be made available on this page [R15] (<i>Software Quality Assurance Plan Documentation</i>) but at the moment of writing no items are currently listed there.

Table 2: Review of the Software Release Plan – Comments

Validated changes

There are no previous change requests that require to be validated for this review.

Validated Deliverables

None.

Variations from previous report

There are no variations from the previous review that can be reported here. The variations analysis will be performed starting from the next review when more information on review outcomes will be available.

Change requests

The list of the changes suggested/requested for this report follows:

- *to make the review more effective, **define** the tolerance range of positive checks for considering the associated EMI deliverables accepted. If the results fall within the range, the deliverable is accepted. Alternatively, the deliverable might be rejected because it does not meet the quality standards set out for the project.*

The possibility of submitting change requests to the checklist structure (e.g. question text, number of questions) will be considered at a later stage of the project when more information on the effectiveness of the review checks should be available. A checklist is considered effective when the results it reports are in line with the quality of project's outcomes.