

EUROPEAN MIDDLEWARE INITIATIVE

REVIEW OF THE SECURITY ASSESSMENT 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 SECURITY ASSESSMENTS PLAN

The Review of the Security Assessment should check that the different stages described in the First Principles Vulnerability Assessment (FPVA) approach are being followed. FPVA is a primarily analyst-centric (manual) approach to assessment whose aim is to focus the analyst's attention on the parts of the software system and its resources that are mostly likely to contain vulnerabilities. FPVA is designed to find new threats to a system. It's not dependent on a list of known threats.

2.1.1 Input

Quality Checklists

- *Checklist for the Review of the Security Assessment [R20].*

Quality Metrics

- *No metrics defined for this review.*

Approved change requests

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

Deliverables

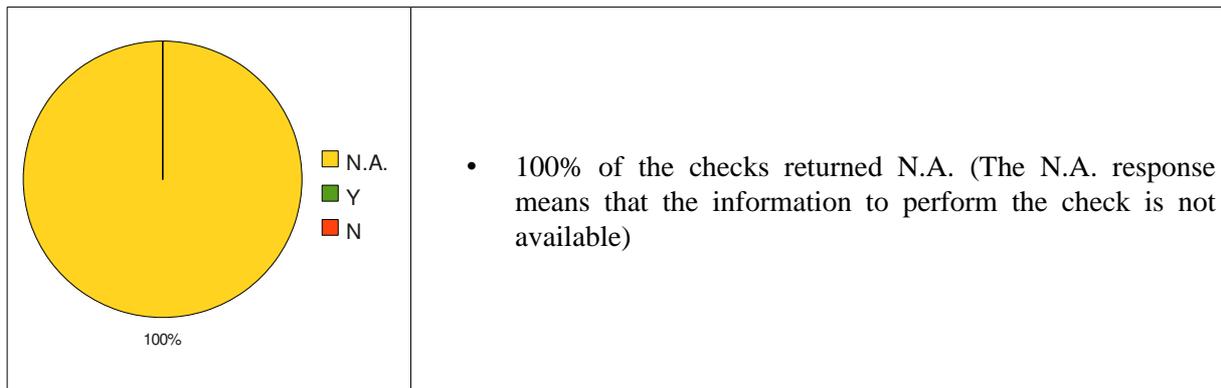
- *Security Assessment Plan [R15].*

2.1.2 Output

Completed Checklist

Check Number	Question	Response
1	The Architectural Analysis has been carried out and the output contains a diagram describing the interactions among components and end users.	N.A.
2	The Resource Identification has been carried out and the output contains the resource descriptions.	N.A.
3	The Trust and Privilege Analysis has been carried out and the output contains the trust levels and the delegation information for all the components and their interactions.	N.A.
4	The Component Evaluation has been carried out and the output contains identified vulnerabilities and their suggested fixes.	N.A.
5	The Dissemination of Results has been carried out.	N.A.

Table 1: Review of the Security Assessment Plan (N.A. = Not Available)



Measurements

There are no measurements for this review.

Comments

The Security Assessment Plan has not been released yet and thus no consideration on its compliance with the quality standards can be formulated.

Validated changes

Validated Deliverables

None.

Variations from previous report

There are no variations from the previous review to report.

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 for the project.*