

Review of the Verification Process for UMD1.x

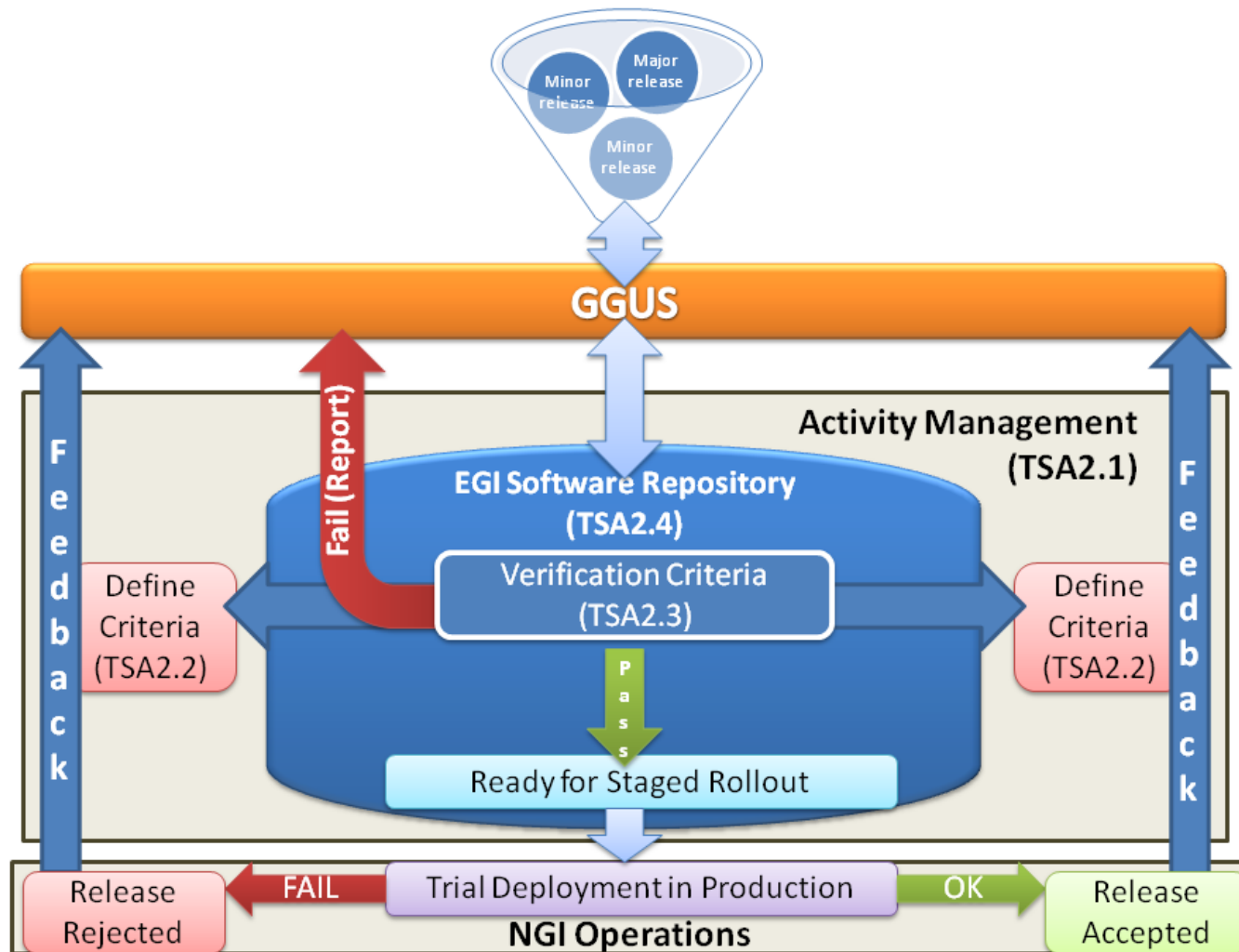
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- Introduction
- Overview EGI Software Validation Workflow
- The QC Verification Process
- Conclusions

- The Verification (TSA2.3) is part of the EGI Software Provisioning Process.
- Some of the reasons for doing the verification before Stage Rollout (SR):
 - Check that bugs reported in previous releases have been fixed by the Technology Provider (TP).
 - Software can work well in the SR but might not have all the functionalities required by the EGI QC.
 - Software might not be safe, well documented or have the necessary installation rules or licenses.

- Technology Providers (TPs) are required to deliver a component release versioned according to the conventional *major.minor.revision* scheme.
 - Increment of the revision number means that only bug(s) have been fixed. No new functionalities.
 - New minor version brings new functionalities while preserving backward compatibility.
 - New major version means a large revision, possibly breaking the backward compatibility.

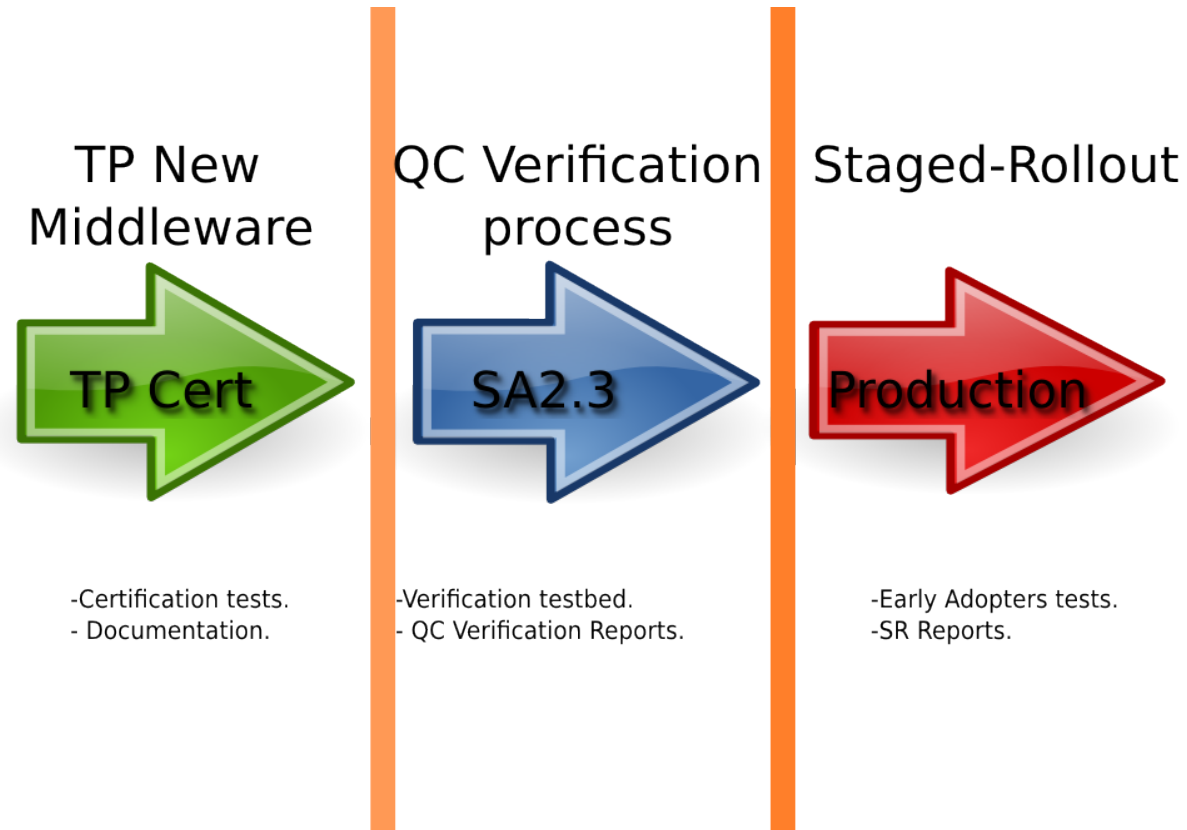
Technology Providers



- For each release the TP will have to provide, apart from the software packages, the following documentation:
 - Release notes.
 - Changelog.
 - Documentation: User Manual, Admin manual, etc. The documentation should be updated (for example if the new release introduces new functionality).
 - Installation scripts and procedure.
 - A list of known issues and their workarounds (if applicable).

- When a new product pass the Software Validation workflow, and if the Staged Rollout and TP don't detect any issue, the new middleware is released into the EGI production infrastructure.
- At this moment were released one mayor and two minor releases into UMD:
 - UMD1.0: First UMD release into EGI Software Repository. 11/07/2011
 - UMD1.1: First UMD minor release. 01/08/2011
 - UMD1.2: Second UMD minor release. 12/09/2011

- When a new software component is released the TP has to follow the EGI Software Provisioning Process.
- Once the new software is correctly uploaded into EGI unverified repository and a new RT ticket is created for each product, the release enters into the Verification phase.
- The new RT tickets are created per product and architecture (PPA) automatically using a bouncer and composer script.
 - For SA2 a Product is a solution delivered by Technology Providers to EGI and provides for one or more capabilities as one single, indivisible unit. (as example cream or globus-myproxy)



- The Verification Pre-Conditions:
 - The verification starts when the following pre-conditions are met:
 - EGI RT ticket in in state **Open**: This state is set automatically by a bouncer script which processes the information submitted by the TP into a release.xml file (Product release notes, package dependencies, etc).
 - The RolloutProgress is set to **Unverified**: The Product was not verified yet.
 - CommunicationStatus is set to **OK**: Also set by the bouncer script.
 - Owner is set to **Nobody**.

- The Verification Pre-Conditions:

#2629: EMI.argus.sl5.x86_64-1.3.1

New messages
There are unread messages on this ticket. You can **jump to the first unread message** or **jump to the first unread message and mark**

Ticket metadata

The Basics

Id: **2629**
 Status: **open**
 Priority: **0/**
 Queue: **sw-rel**

Custom Fields

CommunicationStatus: **ok**
 RolloutProgress: **Unverified**
 ReleaseVersion: **emi.argus.sl5.x86_64-1.3.1**
 UMDRelease: **1**
 ReleaseMetadata: **bouncer-release-EMI.argus.sl5.x86_64-1.3.1-ppa.xml**
 RepositoryURL: **http://admin-repo.egi.eu/sw/unverified/emi.argus.sl5.x86_64/1/3/1**

QualityCriteriaVerificationReport: **(no value)**
 Failed against mandatory documentation QC: **(no value)**
 StageRolloutReport: **(no value)**

[Expand Release Info](#)

People

Owner: **Nobody in particular**
 Requestors:
 Cc: **Group: sw-rel-qc**
 AdminCc:

- The Verification Process starts:
 - Once the verification ticket meets the previous preconditions, the verifier must perform the following steps:
 - Set RT ticket **owner** with the current verifier name.
 - Set **UMDRelease** field to the appropriate UMD release and save the state.
 - Change **RolloutProgress** to “**InVerification**” to start the verification process.

- The Verification Process starts

Modify ticket #2629

Modify ticket #2629

Subject:

Status:

Queue:

Owner:

Time Estimated:

Time Worked:

Time Left:

Priority:

Final Priority:

RolloutProgress
Select one value

UMDRelease
Select one value

QualityCriteriaVerificationReport
Enter one value

Failed against mandatory documentation QC
Check multiple values

True

StageRolloutReport
Enter one value

- The Verification Report Templates
 - Each product has a specific template that includes all QC that the product must comply with.
 - The QC report and Executive Summary templates are available at:
<https://documents.egi.eu/public/ShowDocument?docid=417>
 - These documents are updated if a new EGI Quality Criteria is released. (At this moment we are using QC v2)

- The Verification Report Templates
 - The QC Verification Templates are generated automatically using a Python script which reads the current UMD QC service mapping:
<https://documents.egi.eu/public/ShowDocument?docid=418>
 - This files provides an updated mapping for each TP product and the current QC.

- The Verification Report Templates
 - The fields to fill by the verifier are:
 - **Accepted:**
 - *Y*, when the product meets the criteria.
 - *N*, when the product does not meet the QC.
 - *NA*, Not Applicable for the verified product.
 - **Tested:**
 - *TP*, when the QC was tested by the Technology Provider and the validator trusts the results of the tests.
 - *VLD*, when the QC was tested by the validation team.
 - **Comments:**
 - The verifier can include in this field any relevant comment or links about the specified criteria.

- The Verification Report Templates

A	B	C	D
Criteria	Accepted (Y/N/NA)	Tested (TP/VLD)	Comments
Generic QC			
GENERIC_DOC_1 (Functional Description)	Y	VLD	Available at: http://www.dcache.org/manuals/Book-1.9.12/
GENERIC_DOC_2 (Release Notes)	Y	VLD	http://www.eu-emi.eu/kebnekaise-products/-/asset_publisher/4BKc/cont
GENERIC_DOC_3 (User Documentation)	Y	VLD	User documentation: http://www.dcache.org/manuals/Book-1.9.12/
GENERIC_DOC_4 (Online help (man pages))	Y	VLD	http://www.dcache.org/manuals/
GENERIC_DOC_5 (API Documentation)	Y	VLD	http://www.dcache.org/manuals/libdcap.shtml
GENERIC_DOC_6 (Administrator Documentation)	Y	VLD	http://www.dcache.org/manuals/Book-1.9.12/
GENERIC_DOC_7 (Service Reference Card)	Y	VLD	https://twiki.cern.ch/twiki/bin/view/EMI/DCacheServerServiceReferenceC
GENERIC_DOC_8 (Software License)	Y	VLD	http://www.dcache.org/manuals/dCacheSoftwareLicence.html
GENERIC_DOC_9 (Release changes testing)	Y	VLD	http://www.eu-emi.eu/kebnekaise-products/-/asset_publisher/4BKc/cont
GENERIC_DIST_1 (Source Code Availability)	N	VLD	dCache is free but not Open Source.
GENERIC_DIST_2 (Source Distribution)	Y	VLD	
GENERIC_DIST_3 (Binary Distribution)	Y	VLD	http://www.dcache.org/downloads/1.9/index.shtml#server-1.9.5
GENERIC_SERVICE_1 (Service control and status)	Y	VLD	Available at /etc/init.d/dcache
GENERIC_SERVICE_2 (Log Files)	Y	VLD	Daemon service /var/log/dcache-server

- Level of testing
 - All the products in verification must be installed in the EGI Verification Testbed.
 - However the verification process is different for UMD **minor** or **major** releases.
 - **Major releases** (may not be backwards compatible)
 - Verifiers must actively assess all assigned QCs.
 - Product installation from scratch.
 - **Minor releases** (backwards compatible)
 - Verifiers only check QCs affected by update changes.
 - Package update. Verifiers must update the new packages (using the UMD unverified repository) in an previous installed machine.
 - Product installation from scratch. Verifiers must install from scratch the new product.

- How to handle issues and TP feedback
 - During this process the verifiers can find issues or need the TP feedback. (Missing documentation, a new middleware bug, etc)
 - In these cases the RT ticket **RolloutProgress** is set to *“Waiting for Response”*.
 - The verifier must open a GGUS ticket and include all the created GGUS links into the RT ticket (as reply) to track each issue.

- Product Acceptance:
 - QC tests are **Mandatory (M)** or **Optional (O)**.
 - A product is **REJECTED** if it fails the installation on configuration process.
 - A product is **REJECTED** if it fails **ANY** Mandatory QC.
 - A product is **VERIFIED** if it pass **ALL** assigned QC.
 - A product is **VERIFIED** if it fails **ANY** Optional QC.

- Verification Reports and Executive Summaries:
 - When the QC assessment is finished the verifier creates a new EGI DocumentDB space to store the verification reports. The new public space includes:
 - The Verification Report: The excel file with the complete list of QCs and its results.
 - The Executive Summary: This document includes a summary of QCs failed and passed and comments for other teams involved in the Software Provisioning process (Stage Rollout, Quality Criteria, etc).
 - A DocDB example:
 - <https://documents.egi.eu/public/ShowDocument?docid=730>
 - This link is included by the verifier into RT field:
QualityCriteriaVerificationReport.

- Verification Reports and Executive Summaries:

EGI Document 730-v1

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QC Verification Report: dCache v1.9.12

Permalink:

<https://documents.egi.eu/document/730>

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dCache v1.9.12 Verification reports.

Files in Document:

- > [QC Executive Summary dCache v1.9.12](#) (QC_Verification -Executive_Summary - dCache_v1.9.12.doc, 109.0 kB)
- > [QC Verification Report dCache v1.9.12](#) (QC_Verification - dCache_v1.9.12.xls, 19.5 kB)

Topics:

- > [WP5](#)
- > [Software Provisioning Verification Reports](#)

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- > Public document

Modifiable by:

- > [inspire-sa2](#)

- The Verification process ends:
 - When the verification is finished the RT field **RolloutProgress** is changed to:
 - **StagedRollout**: The product was verified and **accepted**. The Stage Rollout team will continue with the software provisioning process. The new middleware will be tested by the SA1 Early Adopters.
 - **Rejected**: The product is **not accepted** because it does not meet the QC or the rejection was requested by the TP. A script automatically moves the software to a rejected repository. The TP is notified by the RT ticket system and through GGUS.

- Metrics:
 - Available at :
https://wiki.egi.eu/wiki/InSPIRE-SA2:WP5_Project_Metrics
 - From UMD1.0 to UMD1.2:
 - We have verified more than **40** products to be included into UMD.
 - The mean time to verify a new product was **21h**. The verification time depends on the complexity of the product and if is a major or minor release.
 - In this time were rejected **5** products during the verification process.

- Verification process prevents software to enter into the production UMD repository if it doesn't follow the quality criteria defined in TSA2.2.
- The Software Provisioning Process has experienced significant changes in the last year. Now the interaction with external TPs are coordinated by the GGUS ticket system.

- TP feedback and DMSU time response is critical for the verification process to avoid bottlenecks:
 - If a new issue is found the verifier opens a new GGUS ticket. The DMSU must assign it to the correct Responsible Unit as soon as possible.
- Verifiers must know the middleware that they are verifying. If not:
 - They can open tickets by mistake.
 - Or the verification process can be delayed.

Thank you for your attention
Questions?

