

Quality Criteria Management

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Quality Criteria

collection of both **functional** and **non functional requirements** that software must meet in order to be included as part of a UMD release.

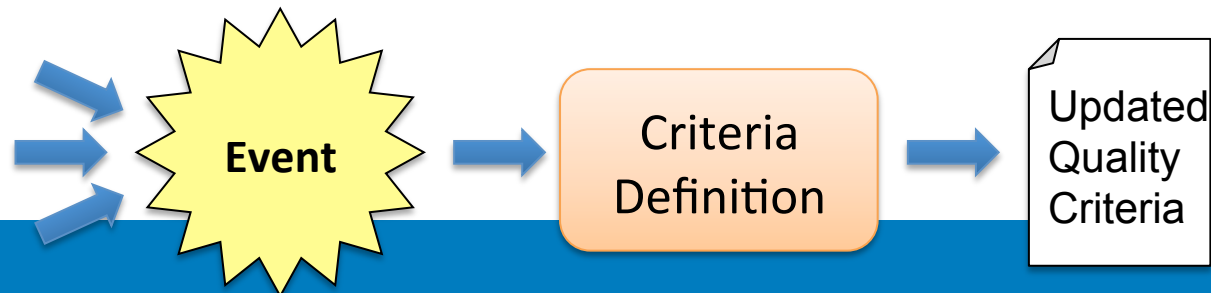
Used for verification of software by Criteria
Verification task

- 2 kinds of criteria:
 - **Generic** that apply to all software
 - e.g. Documentation, Monitoring, Accounting
 - **Specific** that apply to a UMD Capability
 - e.g. Interface compliance, Parallel Job behaviour
- 1 Document per Capability Group:
 - Generic QC, for all software
 - Security, Information, Storage, Data, Compute & Operations

- All criteria are identified by a unique ID and include:
 - Description
 - Applicability
 - Pass/Fail Criteria
 - What is expected from the Technology Provider
 - Related Information and revision log
 - Optionally, detailed description of the tests to perform

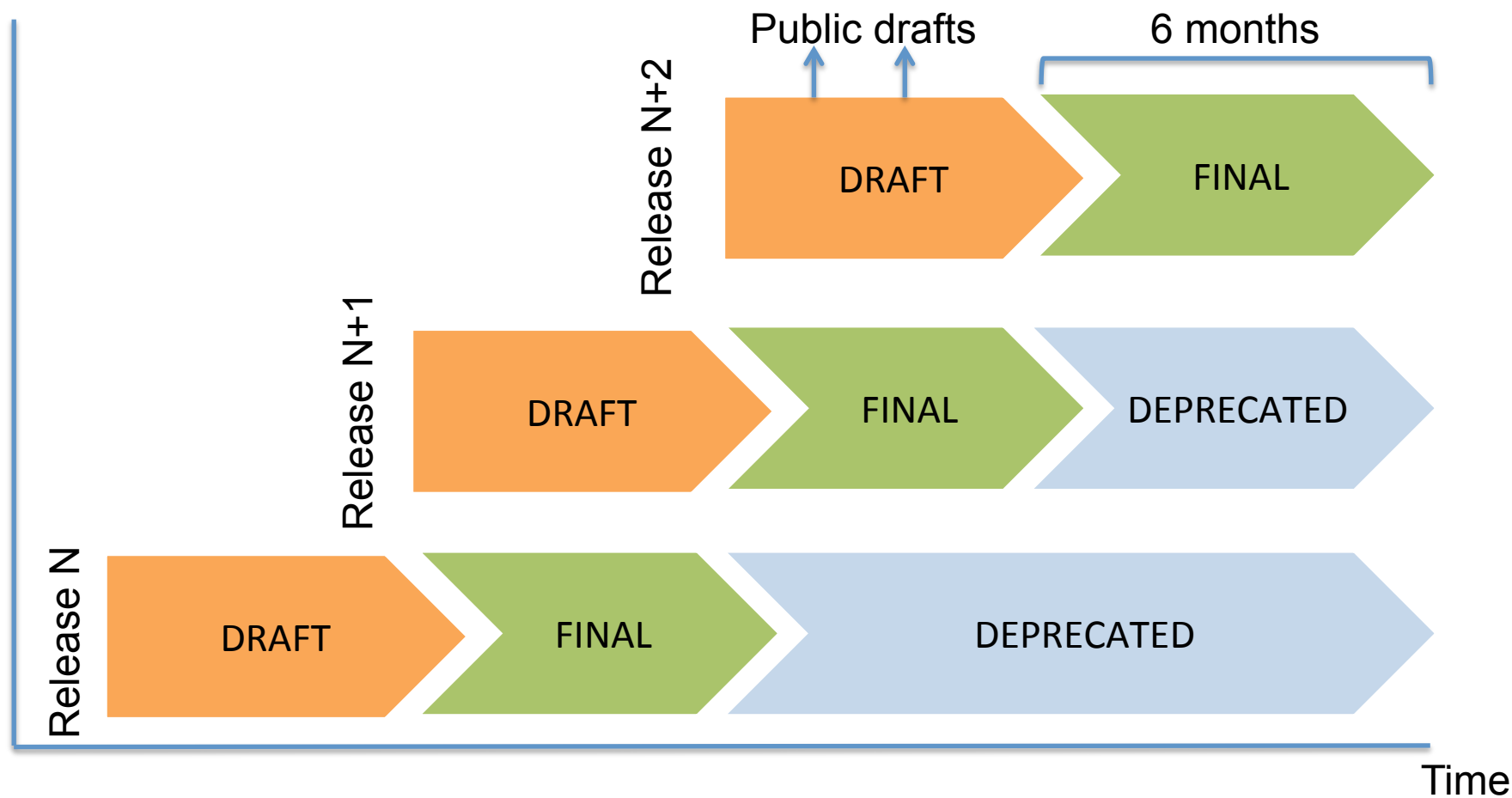
SRM API Support	
ID	STORAGE_API_1
Description	Storage Management Appliances must provide support for SRM2.2 specification.
Mandatory	YES
Applicability	Storage Management Appliances
Input from Technology Provider	Valid SRM v2.2 API implementation, any deviations from the API implementation should be documented. Ideally, also provide a complete test suite and results for the API support
Test Description	<p>Pre-condition Valid user credentials.</p> <p>Test Test SRMv2.2 functionality, with correct/incorrect input and with valid and invalid credentials. Use S2 [R5] test suite for reference.</p> <p>Expected Outcome Log of all the operations performed. All the documented functions work as documented.</p>
Pass/Fail Criteria	Pass if SRM v2.2 support is provided (as tested with S2 test suite). If the API is not completely supported, this should be documented.
Related Information	UMD Roadmap [R1] SRM v2.2 [R4]
Revision Log	

- Quality Criteria **evolve** with community needs
- Sources of change:
 - DMSU – Ticket analysis
 - Operations – incident post mortems
 - TCB – Requirements review
 - Verification and Stage Rollout Reports
 - Security Vulnerability Group Reports



Binary Distribution	
ID	GENERIC_DIST_3
Description	Products must be available in the native packaging format of the supported platform.
Mandatory	YES
Applicability	All Products.
Input from Technology Provider	Binary distribution of product in the native packaging format of the supported platform (RPM, DEB, ...)
Pass/Fail Criteria	<p>Binary packages using the standard packaging format of the OS (i.e. RPM, DEB...) must be provided for all the supported OS and/or architectures.</p> <p>Packages <i>should</i> follow OS packaging policies (e.g. names of packages, <u>use of filesystem hierarchy</u>, init scripts). Any deviance from the policies must be documented.</p> <p>Second level dependencies (i.e. software not provided by the TP in their repository) must be provided by the OS distribution or standard OS repositories (EPEL in SL5).</p> <p>In the case of needing a different version for a specific package or packages from other repositories, the verifier will decide whether to accept or not the packages depending on the reason given for such dependencies on external packages.</p>
Related Information	<p>Verification reports from EMI release 1.</p> <p>#1357: Middleware use standard file locations</p>
Revision Log	V2: Turn to mandatory, better description to avoid problems found in verification. Changed ID (previously GENERIC_REL_5)

Quality Criteria Lifecycle



Release 1

- Released on 10th Feb 2011
- Deprecated on 4th Aug 2011

Release 2

- Released on 4th Aug 2011
- Current **Verification** version

Release 3

- Next public draft expected on 2 weeks
- To be released on Feb 2012

Release 1

- Focused on covering UMD capabilities
- Created prior to real verifications

Release 2

- Fixes faults of 1st release found in verification
- Better coverage of UMD capabilities

Release 3

- Focus on analysis of DMSU, operations incidents and requirements
- Target 100% coverage of UMD capabilities

- EGI.eu wiki:
 - http://wiki.egi.eu/wiki/EGI_Quality_Assurance
- Releases:
 - FINAL: <http://go.egi.eu/qualitycriteria-2>
 - DRAFT: <http://go.egi.eu/qualitycriteria-draft>
 - DEPRECATED: <http://go.egi.eu/qualitycriteria-1>