EMI SA2 Report



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EMI AHM, Budapest, Oct 2012

EMI 1&2: Metrics Monitoring



- Little development required since metrics should be in place before year 3 start.
- Mostly metrics monitoring for the majority of year 3.
- Summary of past 6 months:
 - -Change to Dashboard for Year 2 review
 - -Metric generation for period reports
 - Lintian Analyser
 - Rpmlint Analyser with 2011 comparison

EMI RfC Dashboard



RfC items Show Confined Search Co		rch Colu	olumns to display			Range set	ting(s)	Dat	e(s)		
		All	Prod	oducts		V.	Submitted be	fore:		-	
Priorities	V	immediate	UID		GGUS Tick	et URL	V.	Submitted aff	er 🗆 🔻		-
		high		mitted On	Ended On		197	Ended before			
racker/Family 🗸 Bugzilla/ARC		Affec	Affected EMI Major		arget EMI Major		Ended belore Ended after:				
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Status		open	- Asso	ciated Test	Total items	of this kind					
Detection		All	A						4111	Request	for Chang
Area		production	-	Update Table Reset	All Buttons	Create CSV				Dasi	board
Severity		All	▼					EUROPEAN MIDDI		Dasi	iboara
	P	roduct		Tracker Category	Priority	Tracker/Far	nilv	UID	Submitted	On	EndedOn
1 ARC			A-REX	immediate	Bugzilla/Nord	-	1 10 10 10	2012-08-24T1		Not closed y	
2 ARC			Batch system back-ends		Bugzilla/Nord			2012-09-14T1		Not closed y	
3 L&B & glite-gsoap/gss			LB	high	Sav/gLite	agna	97255	2012-09-04T1		Not closed y	
4 TORQUE WN config & TORQUE server config				high	Sav/gLite		93074	2012-03-28T1		Not closed y	
5 UNICORE T		9		TSI	high	SF/UNICORE		3555638	2012-08-09T0		Not closed y
6 [legacy UNIC	OREI			Installer	high	SF/UNICORE		3540404	2012-07-05T0		Not closed y
7 [legacy UNICORE]			Rich Client	high	SF/UNICORE		3547853	2012-07-24T0		Not closed y	
8 [legacy UNICORE]		Server	high	SF/UNICORE		3025969	2010-07-06T1	2:26:00	Not closed y		
9 [legacy UNICORE]		Server	high	SF/UNICORE		3390502	2011-08-12T0		Not closed y		
10 [legacy UNICORE]			Workflow System	high	SF/UNICORE		3167206	2011-01-28T0	9:58:00	Not closed y	
11 [legacy UNICORE]			Workflow System	high	SF/UNICORE		3386709	2011-08-05T0	4:14:00	Not closed y	
12 [legacy gLite]			Information providers	high	Sav/gLite		96306	2012-07-25T0	9:42:12	Not closed y	

Dashboard highlights the Immediate/High Priority RfCs in state Open per Product/Tracker

Lintian Analyser (Recent Work)



Collecting all the Lintian Reports into one location to provide an overview per Product.

Detailed Lintian report for each EMI package: CLICK HERE

260 packages analyzed.

4 tables generated. These tables as CSV: lintian.csv

Total of 36 Products affected. 5 components failed to be mapped to a product.

Product	Number of Packages	Number of Errors	Number of Warnings
AMGA	1	2	2
APEL publisher	2	5	4
ARC	5	4	2
ARGUS	12	32	40
ARGUS EES	11	4	8
BDII Core	2	4	4
BDII Site	1	2	3

Lintian Analyser Overview



Number Of Different Errors (N)	Number of Packages (P)	Percentage of Total Packages (P/260*100)
0	86	37.5%
1	73	31.8%
2	36	15.7%
3	27	11.8%

Number Of Different Warnings (N)	Number of Packages (P)	Percentage of Total Packages (P/260*100)
0	102	25%
1	68	26.15%
2	42	16.15%
3	20	12.3%

Lintian Analyser Overview



Ranking	Name of Error	Percentage of compliance if the errors are fixed
1	no-copyright-file	37.5%
2	extended-description-is-empty	40.6%
3	helper-templates-in-copyright	53.7%
4	non-standard-toplevel-dir	79.6%
5	description-synopsis-is-duplicated	82.1%

Rpmlint Comparison (Dec 2011)



The improvement is large whilst almost doubling the number of RPMs

Number Of Different Errors (N)	Current Values Number of Packages (P of 1051)	Prev. Values (9 th Dec 2011) Number of Packages (P of 635)
0	36.5% (384)	0.0% (0)
1	31.8% (334)	4.3% (27)
2	15.6% (164)	39.1% (248)
3	6.4% (68)	17.3% (110)
4-5	7.0% (74)	23.3% (148)
6-13	2.5% (27)	14.5% (92)

Factors affecting compliance:

- Some packages are not intended to be in EPEL (either technical limitations or PT's option)
- There are some false errors

Rpmlint Analyser (Warnings)



Number Of Different Warnings (N)	Number of Packages (P)	Percentage of Total Packages (P/1051*100)
0	17	1.6%
1	105	10%
2	209	19.88%
3	262	24.93%
4	196	18.65%
5	103	9.8%
6	76	7.23%
7-16	83	7.9%

Quality Control – Task 2.7



Quality control activities



- Verification of released products
- Static analysis of product packages
- Reporting of quality performance

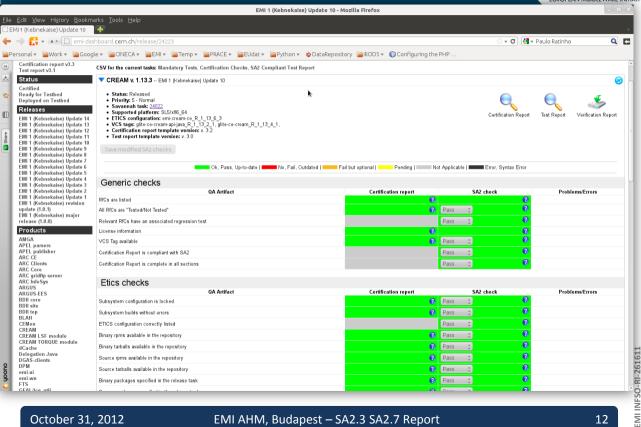
How do we verify products?



- Products passing the first step are moved to "Ready for Testbed"
- While products are checked on EMI testbed, PTs have the opportunity to fix any minor non conformity
- Products passing the test-bed checks are moved to "Deployed on Testbed"
- If all minor nonconformities have been fixed, the product is eventually **verified**;)
- Not addressed nonconformities are discussed again with PTs so to find out possible solutions for them

Verification dashboard

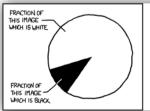


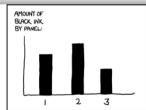


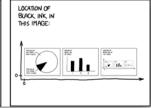
EMI 1&2: General Measurements



- EPEL Conformity (cont.)
- Availability of Binary and Source Packages
- Mandatory tests
- Associated tests
- Certification report
- Listed RfC

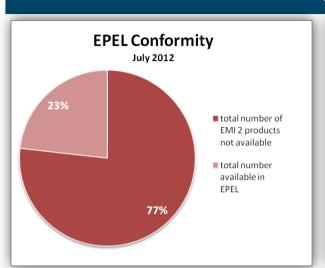


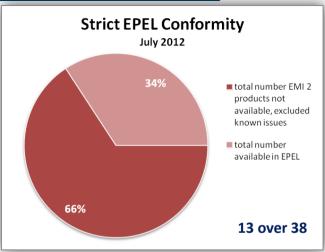




EMI 2: EPEL Conformity



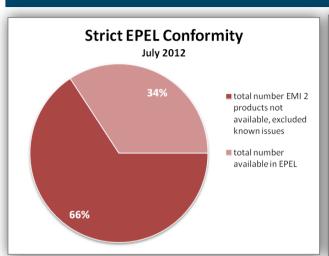


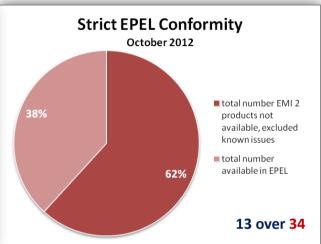


 Percentage of products being able to conform with EPEL packaging policy (July 2012)

EMI 2: EPEL Conformity





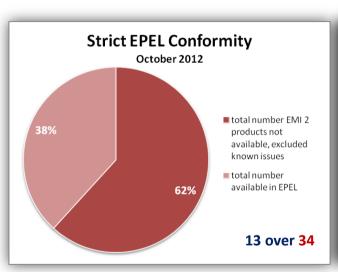


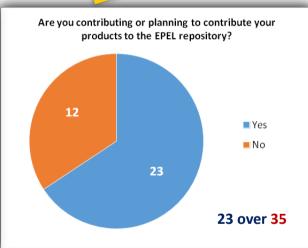
 Moving from July to October the number of products being potentially able to become EPEL compliant decreased.

EPEL Conformity – comparison with the survey



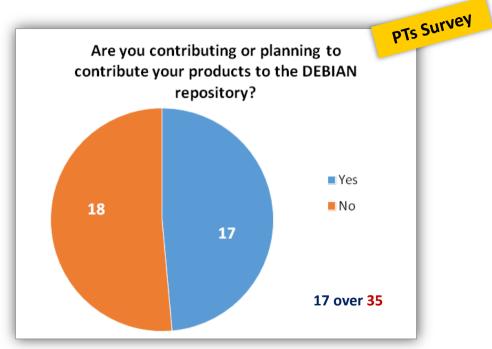
PTS Survey





What about DEBIAN?





EMI 1: Source and Binary Packages





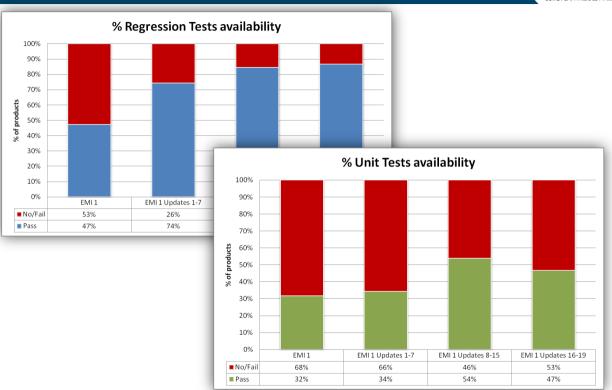
EMI 2: Source and Binary Packages





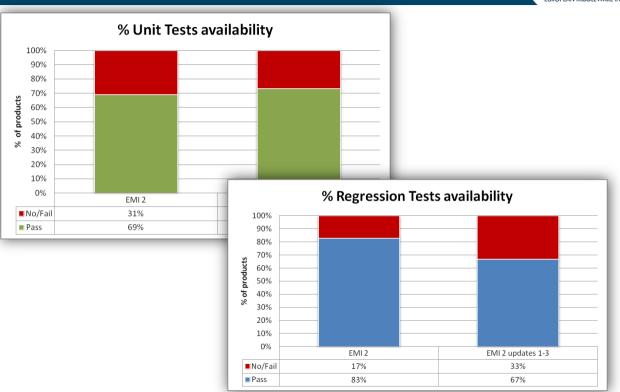
EMI 1: Fundamental tests





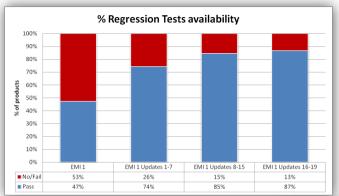
EMI 2: Fundamental tests



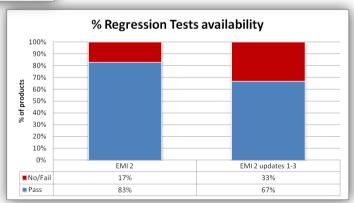


EMI 1 - 2: Fundamental tests



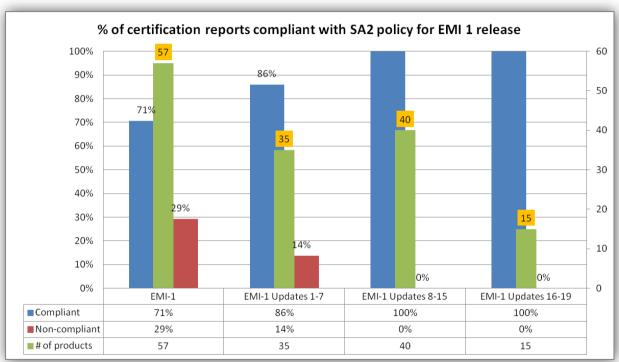


A drop of few % points can be observed moving from EMI 1 to EMI 2



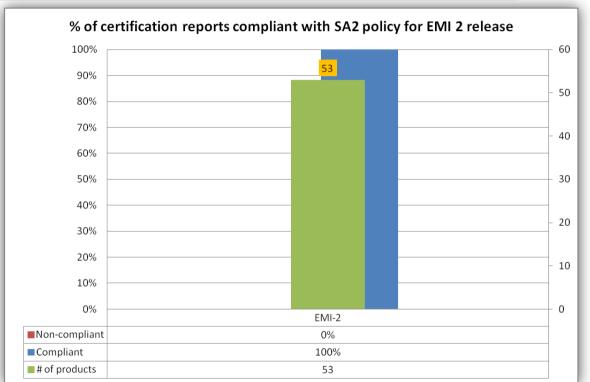
EMI 1: Certification reports





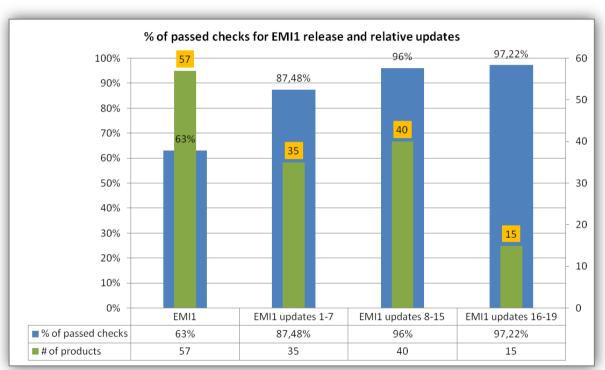
EMI 2: Certification reports





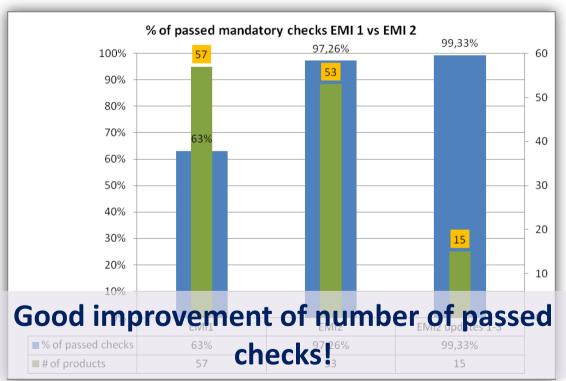
EMI 1: Passed checks





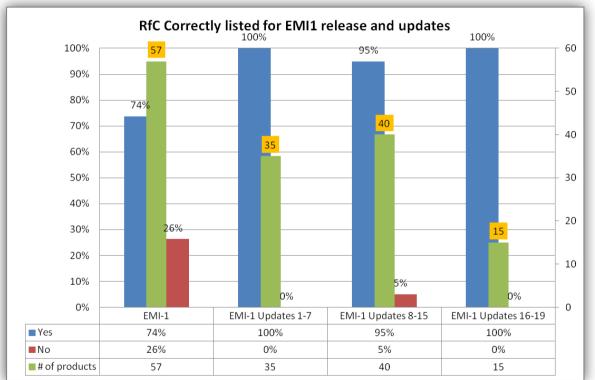
EMI 2: Passed checks





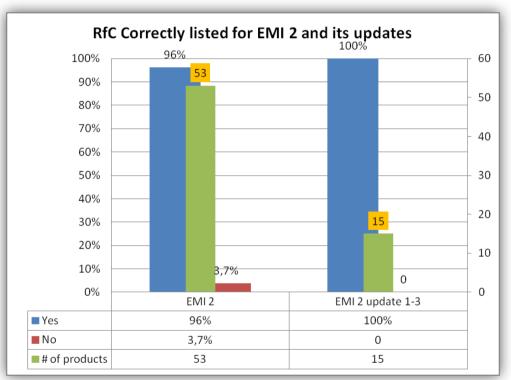
EMI 1: RfC correctly listed





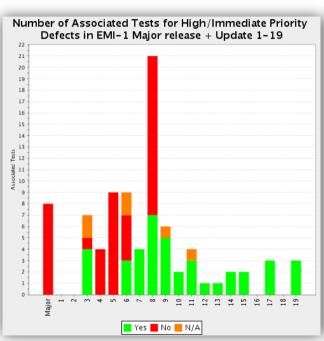
EMI 2: RfC correctly listed





Associated Tests Defects – EMI 1 & 2





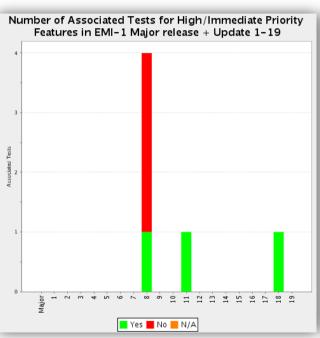
Number of Associated Tests for High/Immediate Priority Defects in EMI-2 Major release + Update 1-3 Associated Tests Yes 📕 No 📒 N/A

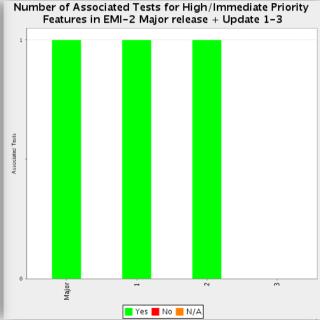
EMI 1 release 9-19 show complete enforcement of SA2.2 policies, paramount for EMI reviews

EMI 2 release 1-3 show complete enforcement of SA2.2 policies, 2 issues in EMI 2 Major Release

Associated Tests Features – EMI 1 & EMI 2

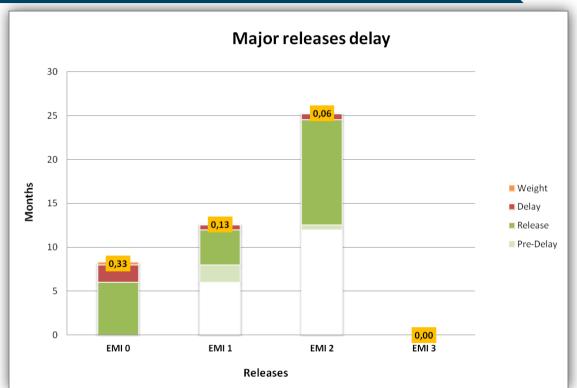






Major releases delay





- The results of documentation review are collected in the verification dashboard i.e. they are easily accessible for PTs.
- Common issues:
 - disagreement between information in certification report and actual documentation status
 - —some of PTs do not provide the documentation in appropriate format (EMI project logo is missing, formatting of document, ...)
 - in some cases a lack of the effort to correct documentation incidents

QC Conclusions



- Overall verification results are good
- New developments (e.g. EMI 2) report better performance on test availability than previous ones (e.g. EMI 1 Updates)
- Level of conformity with EPEL policy is increasing slowly despite the final goal (100%) is within our grasps
- Number of defects per quarter is decreasing over quarters

