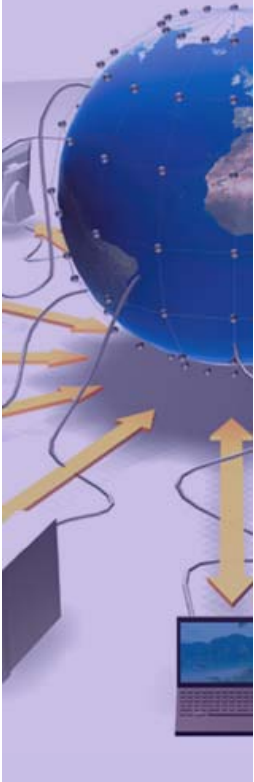


CMS WLCG reliability in April 2008

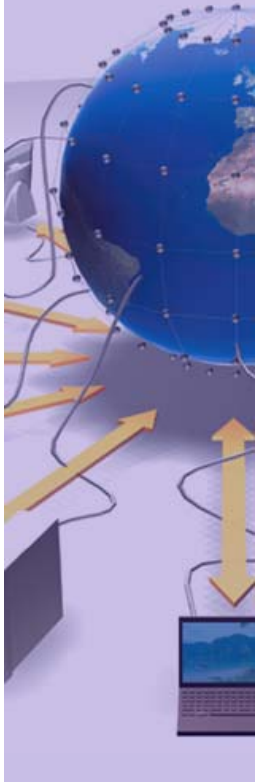
Andrea Sciabà

WLCG Management Board
May 13, 2008



Test name	Run by	Meaning
Computing Element		
CE-sft-job	CMS	If fails no CMS job can be run
CE-sft-caver	OPS	If fails CA certs or CRLs are not updated
SRMv2		
SRMv2-lcg-cp	CMS	If fails no file can be copied from UI to SRMv2 using lcg-cp

- CMS is decommissioning SRMv1 \Rightarrow no critical tests anymore on SRMv1 since the end of April
- SRMv2 is not a critical service in GridView \Rightarrow SRMv2 failures do not affect site availability \Rightarrow availability seriously misrepresented from now on
- The many CMS-specific SAM tests (for FroNTier, software installation, CMS local site configuration, local file stageout etc.) are not critical in FCR because
 - in most cases they do not indicate a problem at the Grid level \Rightarrow there is no point in “blaming” the site in a WLCG context
 - they are relevant only for specific types of jobs
 - they are anyway critical (when needed) in the SAM Dashboard





WLCG - Sites Reliability - April 2008

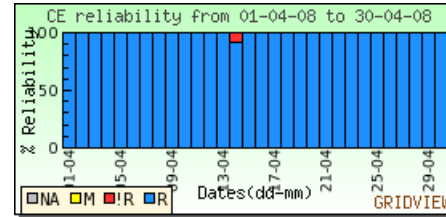
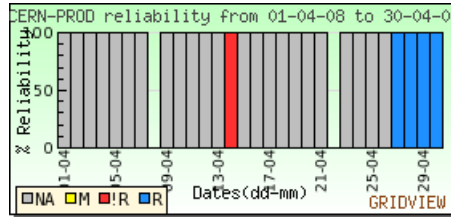
>= 93%

>= 84%

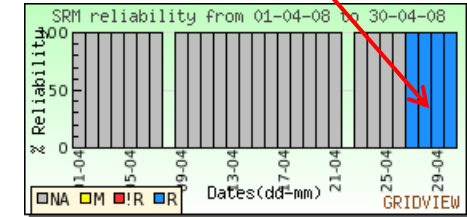
< 84%

	OPS	ALICE	ATLAS	CMS	LHCb	
CERN-PROD	95%	100%	1%	80%	59%	CERN-PROD
DE-KIT	95%	97%	50%	84%	34%	FZK-LCG2
FR-CCIN2P3	98%	100%	5%	98%	42%	IN2P3-CC
IT-INFN-CNAF	73%	89%	31%	76%	0%	INFN-T1
NDGF	85%	100%	-	-	-	NDGF-T1
ES-PIC	90%	100%	41%	98%	94%	pic
UK-RAL	93%	97%	0%	70%	34%	RAL-LCG2
NL-T1	90%	86%	0%	-	33%	SARA-MATRIX
TW-ASGC	97%	100%	22%	96%	-	Taiwan-LCG2
CA-TRIUMF	96%	-	19%	-	-	TRIUMF-LCG2
US-FNAL-CMS	77%	-	-	96%	-	USCMS-FNAL-WC1
US-T1-BNL	93%	-	N/A	-	-	BNL-LCG2

- CERN: 80%

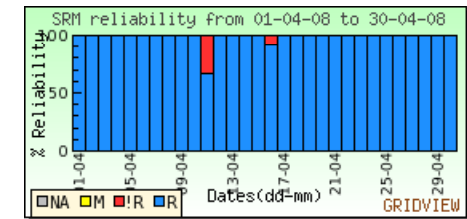
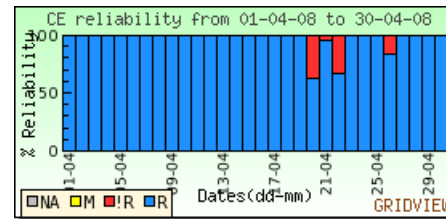
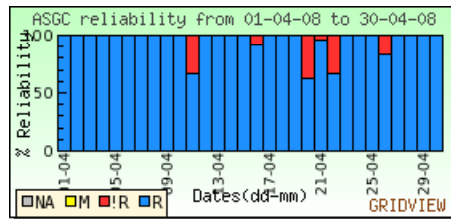


SRMv1 tests not critical anymore



- SRM: status unknown because SRMv1 endpoint not used anymore by CMS since long
- 80% is an artefact (periods in status UNKNOWN are ignored)

- ASGC: 96%



- CE: intermittent job submission errors
- SRM: sporadic CASTOR errors (“device too busy”)

[Display Reliability Graphs](#)

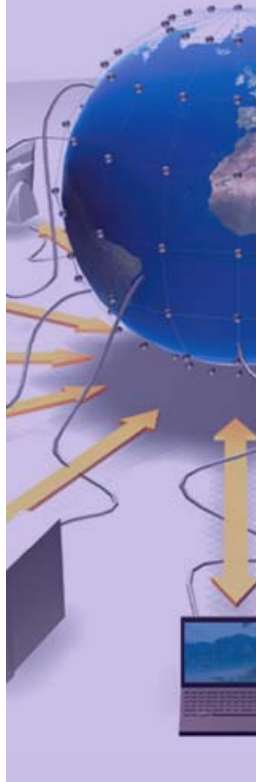
 [Bookmark](#)

SAM Test Results for site FNAL

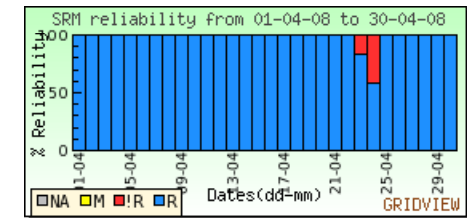
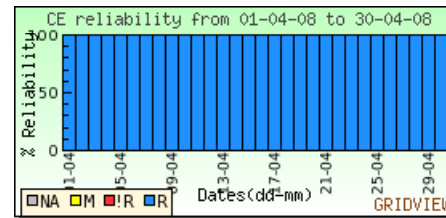
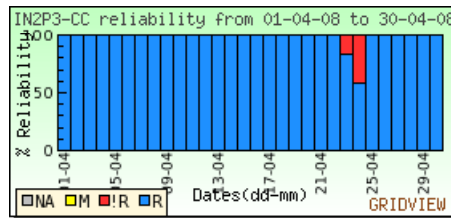
Test Criticality Defining VO : CMS

(Click on the Test Result Graph to View Details)

Service	Node	Test Name	Test VO	Test Help	Critical	Test Results
						na ok info note warn error crit maint
		Service Status				
		CE-sft-caver	OPS	?	Y	
		CE-sft-job	CMS	?	Y	
		CE-cms-basic	CMS	?	N	
		CE-cms-dummy	CMS	?	N	
		CE-cms-frontier	CMS	?	N	
		CE-cms-mc	CMS	?	N	
		CE-cms-squid	CMS	?	N	
CE	cmslogce.fnal.gov	CE-cms-swinst	CMS	?	N	
		CE-sft-lcg-rm	CMS	?	N	
		CE-sft-lcg-rm-cp	CMS	?	N	

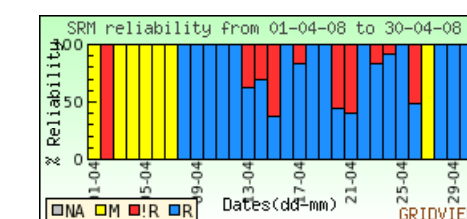
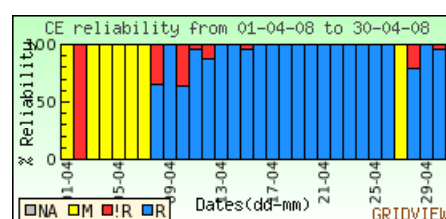
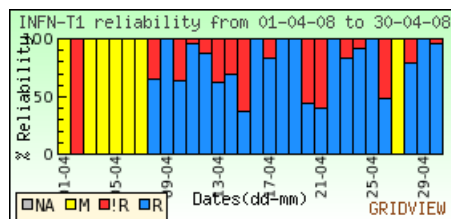


- IN2P3: 98%



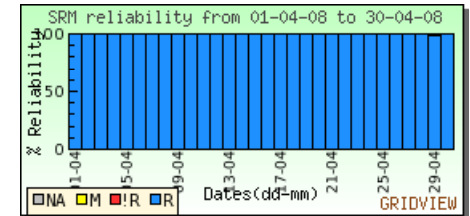
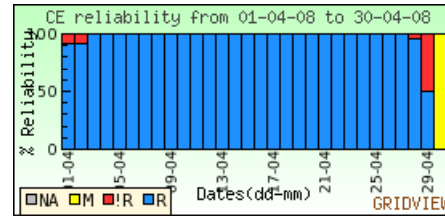
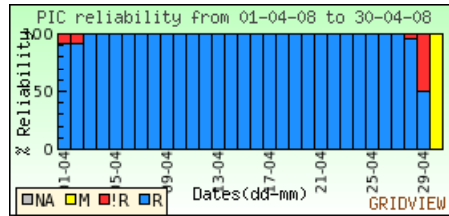
- SRM: very few connection timeouts

- CNAF: 76%



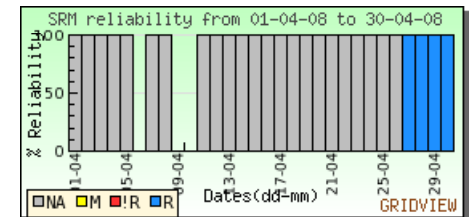
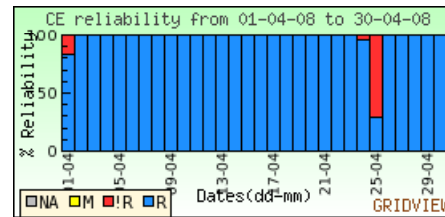
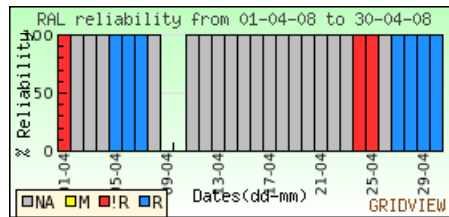
- CE: a few job submission errors
- SRM: some communication errors and timeouts

- PIC: 98%



- CE: some errors due to a network intervention

- RAL: 70%



- CE: a few disappearances from BDII
- SRM: status unknown because SRMv1 endpoint not used anymore by CMS
- Overall reliability statistically insignificant (see CERN)

- For three sites the reliability is not reliable
 - CERN, RAL: because CMS was not testing a service (SRM) which still had critical tests
 - Fixed from the end of April
 - FNAL: GridView seems to be picking up the wrong CEs
- SRMv2 should become a critical service in GridView
 - Otherwise SRM failures will not appear and all sites will look unrealistically good
- Reminder: many CMS tests do not affect the WLCG availability on purpose
 - e.g. cannot blame a site if some CMSSW version is missing, or if the Trivial File Catalogue has a typo

