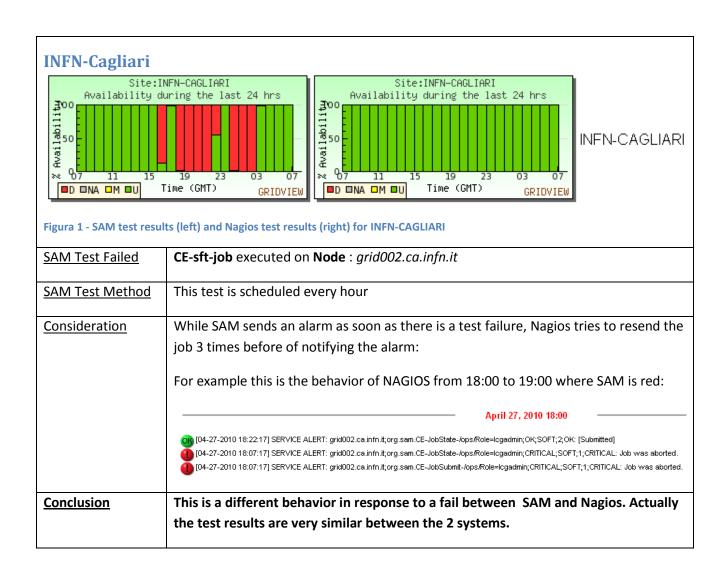
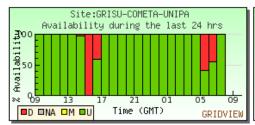
SAM and Nagios statistics comparison for IT-ROC

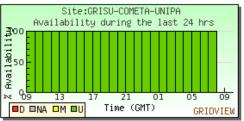
April 28

Comparative figures taken from http://pps-sam.cern.ch/gridview/regions/Italy.html, **Generated:** Wed Apr 28 03:00:22 UTC 2010 | **Region:** Italy



GRISU-COEMTA-UNIPA





GRISU-COMETA-UNIPA

Figura 3 - SAM test results (left) and Nagios test results (right) for GRISU-COMETA-UNIPA

SAM Test Failed	CE-host-cert-valid executed on Node: unipa-ce-01.pa.pi2s2.it
	SRMv2-ls-dir executed on Node: unipa-se-01.pa.pi2s2.it
	sBDII-sanity executed on Node: unipa-ce-01.pa.pi2s2.it
Consideration	CE-host-cert-valid : it has been an isolated error so we think that the problem wasn't
	the certificate host
	SRMv2-ls-dir: While SAM sends an alarm as soon as there is a test failure, Nagios
	tries to resend the job 3 times before of notifying the alarm:
	For example this is the behavior of NAGIOS from 17:00 to 17:00 where SAM is red:
	April 27, 2010 16:00
	1 [04-27-2010 16:59:05] HOST ALERT: unipa-se-01.pa.pi2s2.it;DOWN;SOFT;2;CRITICAL - Socket timeout after 10 seconds
	[04-27-2010 16:57:45] HOST ALERT: unipa-se-01.pa.pi2s2.it;DOWN;SOFT;1;CRITICAL - Socket timeout after 10 seconds
	[04-27-2010 16:04:23] Nagios 3.2.0 starting (PID=9785) (04-27-2010 16:04:23] Caught SIGHUP, restarting
	V
	sBDII-sanity: In nagios there isn't manifestation of this problem, probably because
	the problem wasn't on the host, but it was a communication problem with Gstat .
Conclusion	The test results are very similar between the 2 systems, the only real difference is
	due to a different behavior in response to a fail between SAM and Nagios

INFN-BARI Site:INFN—BARI Availability during the last 24 hrs Site:INFN-BARI Availability during the last 24 hrs Availability o Availability o INFN-BARI 8g æ 16 20 O Time (GMT) 16 ■D □NA □M ■U ■D □NA □M □U Time (GMT) GRIDVIEW GRIDVIEW

Figura 2 - SAM test results (left) and Nagios test results (right) for INFN-BARI

SAM Test Failed	SRMv2-put executed on Node storm-se-01.ba.infn.it
SAM Failure reason	<pre>[SE][StatusOfPutRequest][ETIMEDOUT] httpg://storm-se- 01.ba.infn.it:8444/srm/managerv2: User timeout over lcg_cp: Connection timed out + retcode=1 + set +x Tue Apr 27 21:17:16 UTC 2010 [1272403036]</pre>
Consideration	NAGIOS test: SRMv2-org.sam.SRM-Put. Nagios doesn't send a message when the check result is tagged as SOFT, but only when the it is HARD (the status became HARD at the second consecutive failure), so the failure occurred on NAGIOS was not reported on GridView. For example, the failure (SOFT) reported at 04-27-2010 08:41:36 was not notified because the resubmission was successfully done. OBS [04-27-2010 08:55:06] SERVICE ALERT: storm-se-01.ba.infn.it;org.sam.SRM-Put-/ops/Role=lcgadmin;OK;SOFT;2;OK: File was copied to SRM. 1 [04-27-2010 08:41:36] SERVICE ALERT: storm-se-01.ba.infn.it;org.sam.SRM-Put-/ops/Role=lcgadmin;CRITICAL;SOFT;1;CRITICAL: File was NOT copied to SRM.
Conclusion	We have two different behavior between what SAM and NAGIOS are doing in case of failures, but the results of test are the same.

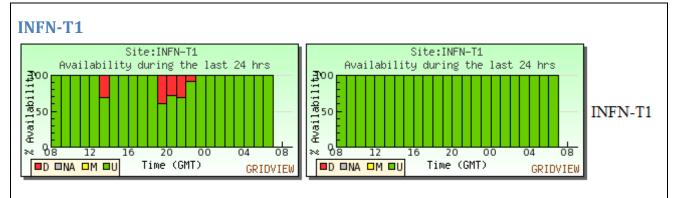
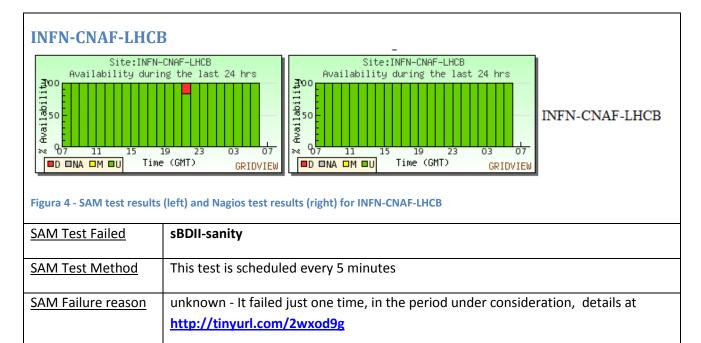


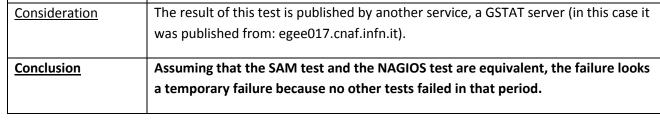
Figura 3 - SAM test results (left) and Nagios test results (right) for INFN-T1

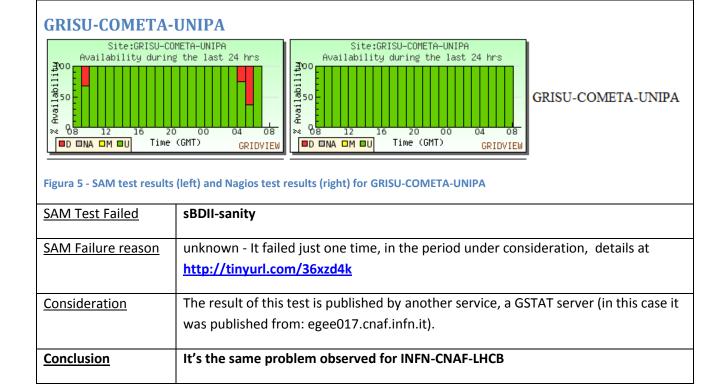
SAM Test Failed	sBDII-sanity executed on Node sg01-lcg.cr.cnaf.infn.it
SAM Failure reason	Error message: ERROR cmd timeout 40 sec: ldapsearch -S "" -x -LLL -1 30 -h sg01-lcg.cr.cnaf.infn.it -p 2170 -b mds-vo-name=INFN-T1,o=grid * \+ Details at http://tinyurl.com/27bpxor
Consideration	It is not clear the behavior of the NAGIOS test sBDII-org.gstat.SanityCheck. At http://tinyurl.com/265ohmk it seems it is not executed every hour and there are some missing lines:
	at 16:26:27 on 27/04/2010 10 ok <u>Test Env</u> OK - errors 0, warnings 0, info 16 <u>Detail Result</u>
	at 18:26:25 on 27/04/2010 10 ok <u>Test Env</u> OK - errors 0, warnings 0, info 16 <u>Detail Result</u>
	at 20:26:26 on 27/04/2010 10 ok <u>Test Env</u> OK - errors 0, warnings 0, info 16 <u>Detail Result</u>
Conclusion	There are some missing lines in the GridView detailed test results, it is not clear if nagios do not execute the test every hour, or if there are some missing messages sent by Nagios or don't retrieved by GridView. SAM tests are not directly executed by SAM itself, but the results are taken by GSTAT.

April 26

Comparative figures taken from http://pps-sam.cern.ch/gridview/regions/Italy.html , **Generated:** Mon Apr 26 03:00:23 UTC 2010 | **Region:** Italy







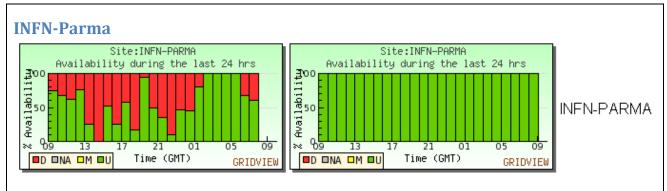


Figura 3 - SAM test results (left) and Nagios test results (right) for INFN-Parma

The same as INFN-CNAF-LHCB

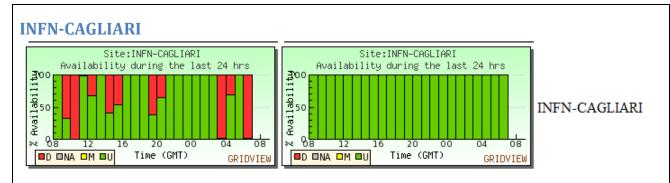


Figura 6 - SAM test results (left) and Nagios test results (right) for INFN-CAGLIARI

SAM Test Failed	CE-sft-job executed on Node : grid002.ca.infn.it
SAM Test Method	This test is scheduled every hour
SAM Failure reason	An example of SAM failure is available at http://tinyurl.com/2wz3c2r (the famous Condor/Maradona error message).
<u>Consideration</u>	At http://tinyurl.com/2vsa3rr there are the result of Test Name : CE-org.sam.CE-JobSubmit executed and published by the nagios server samnag022.cern.ch Even if the NAGIOS test is scheduled every hour, there are not the results of all test executed. Looking at the Alert History view on samnag022.cern.ch for this service, we can note (as example):
	April 26, 2010 01:00 ON [04-26-2010 01:50:12] SERVICE ALERT: grid002.ca.infn.it;org.sam.CE- JobSubmit-/ops/Role=lcgadmin;OK;SOFT;2;OK: success. [04-26-2010 01:05:06] SERVICE ALERT: grid002.ca.infn.it;org.sam.CE-JobSubmit- /ops/Role=lcgadmin;CRITICAL;SOFT;1;CRITICAL: Job was aborted.

	Nagios doesn't send a message when the check result is tagged as SOFT, but only when the it is HARD (the status became HARD at the second consecutive failure), so the failure occurred on NAGIOS was not reported on GridView.
Conclusion	So we have two different behavior between what SAM and NAGIOS are doing in case of failures, but the results of test are the same.



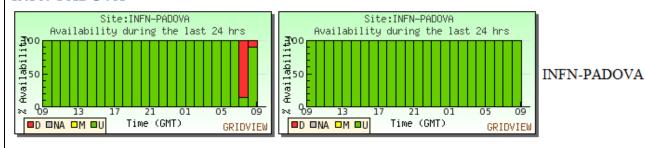


Figura 7 - SAM test results (left) and Nagios test results (right) for INFN-PADOVA

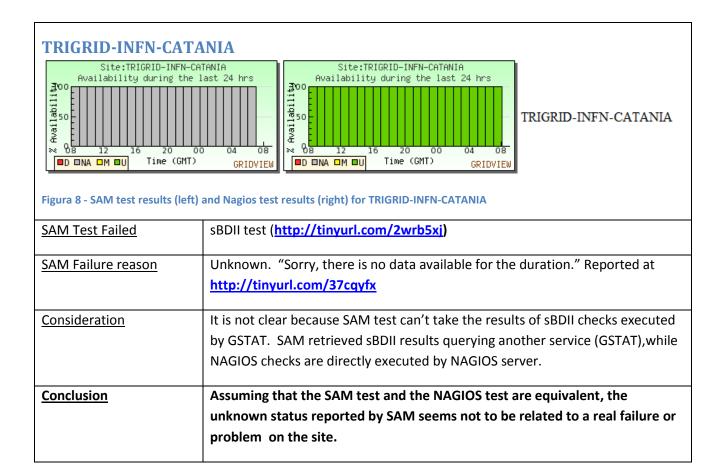
reported on GridView.

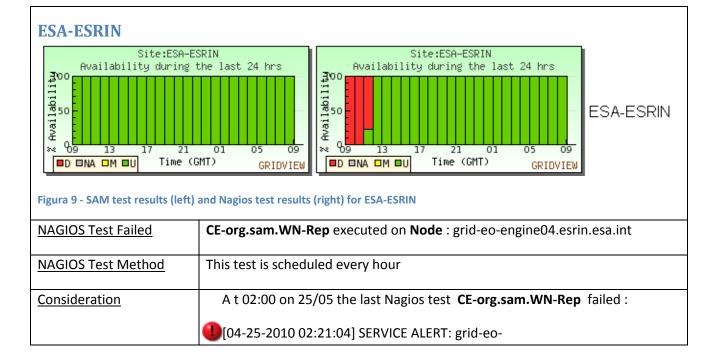
SAM Test	CE-sft-lcg-rm executed on Node: prod-ce-02.pd.infn.it
<u>Failed</u>	
SAM Test	This test is scheduled every hour
<u>Method</u>	Tills test is somedaned every med.
SAM Failure	An example of SAM failure is available http://tinyurl.com/2ccqzpy (CE-sft-lcg-rm-cr failure).
<u>reason</u>	
Consideration	At http://tinyurl.com/269jnen there are the results of Test Name : org.sam.WN-Rep executed and
<u>'</u>	published by the nagios server samnag022.cern.ch.
!	Looking at the Alert History view on samnag022.cern.ch for this service, we can note (as example):
!	April 26, 2010 07:00
	OK [04-26-2010 07:31:15] SERVICE ALERT: prod-ce-02.pd.infn.it;org.sam.WN-Rep-/ops/Role=lcgadmin;OK;SOFT;2;prod-wn-033.pn.pd.infn.it: OK: success.
!	April 26, 2010 06:00
	[04-26-2010 06:31:06] SERVICE ALERT: prod-ce-02.pd.infn.it;org.sam.WN-Rep-/ops/Role=lcgadmin;CRITICAL;SOFT;1;prod-wn-017.pn.pd.infn.it: CRITICAL: METRIC FAILED [org.sam.WN-RepRep-/ops/Role=lcgadmin]: CRITICAL: File was NOT replicated to SE samdpm002.cern.ch. [ErrDB:[('lcg_util', 'server', 'CRITICAL')]]
!	Nagios doesn't send a message when the check result is tagged as SOFT, but only when the it is HARD (the

status became HARD at the second consecutive failure), so the failure occurred on NAGIOS was not

Conclusion

As observed for INFN-CAGLIARI, we have two different behavior between what SAM and NAGIOS are doing in case of failures, but the results of test are the same.





	through msg system.
Conclusion	It seems a synchronization problem between Nagios server and GridView
	at 04-25-2010 05:11:53 but Gridview report this new state only at 11:46:07
	There haven't been other state change after this, Nagios sent the msg status ok
	/ops/Role=lcgadmin;OK;HARD;2;wnode0403.esrin.esa.int: OK: success.
	engine04.esrin.esa.int;org.sam.WN-Rep-
	ON [04-25-2010 05:31:09] SERVICE ALERT: grid-eo-
	At 05:00 on 25/04 the test became successful:
	shared-central.cern.ch. [ErrDB:[('lcg_util', 'server', 'CRITICAL')]] CLI
	NOT copied to SE grid-eo-engine04.esrin.esa.int and registered in LFC prod-lfc-
	METRIC FAILED [org.sam.WN-RepCr-/ops/Role=lcgadmin]: CRITICAL: File was
	/ops/Role=lcgadmin;CRITICAL;HARD;2;wnode0404.esrin.esa.int: CRITICAL:
	engine04.esrin.esa.int;org.sam.WN-Rep-