

Evolution of the Dashboard SAM Web Portal

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EGEE 2009

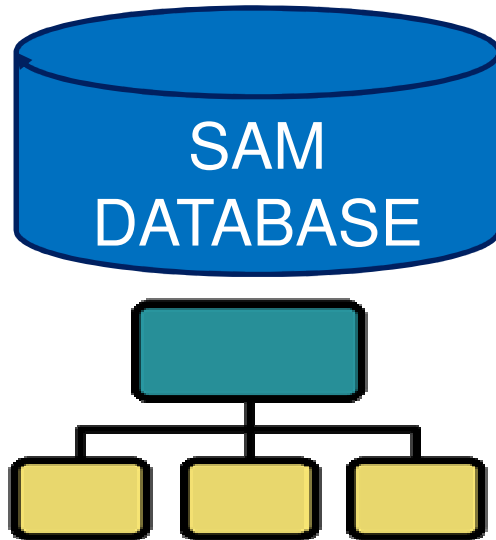
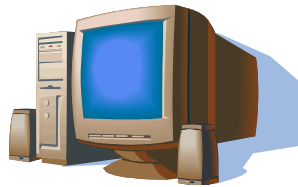
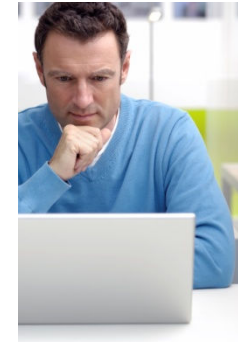
23 September 2009



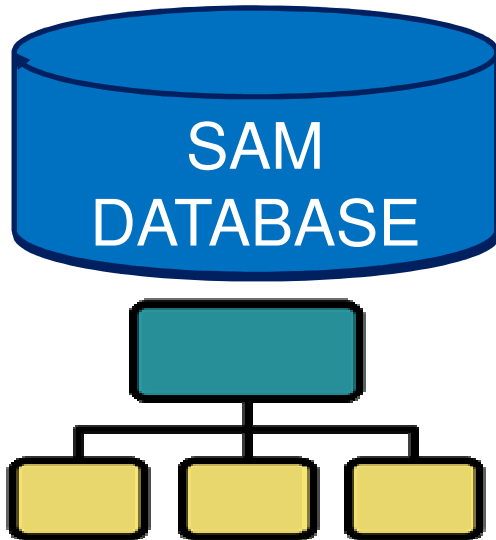
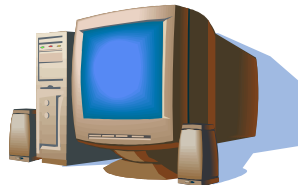
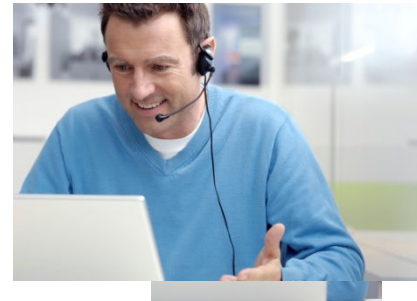
- **An interface to see test results**
 - Latest test results
 - test history for a site, service, node
 - Following VO-defined groups
 - Clouds, site names, grouping of sites
- **An interface to define VO-critical tests**
 - Access restricted
 - Multiple availabilities
 - For different services, tiers, sites...
- **An access point to metrics**
 - Availability as defined by GridView
- **Stay tuned for some fancy screenshots!**
 - And use the command line interface to get other formats



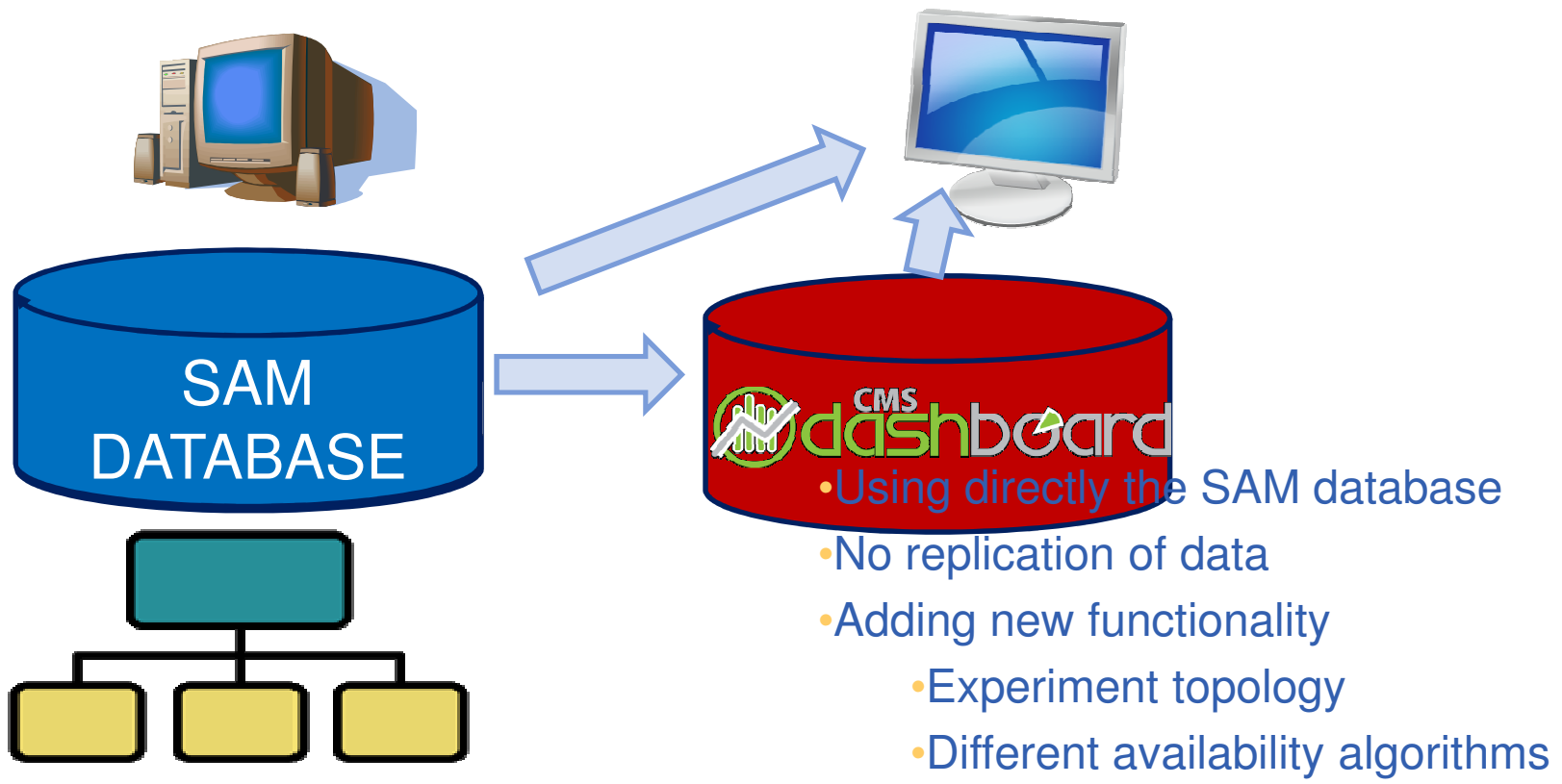
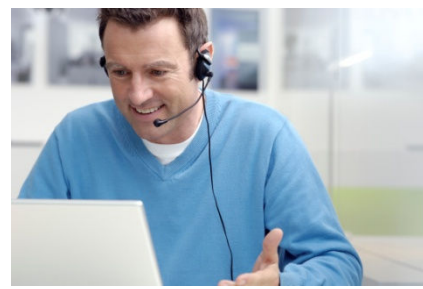
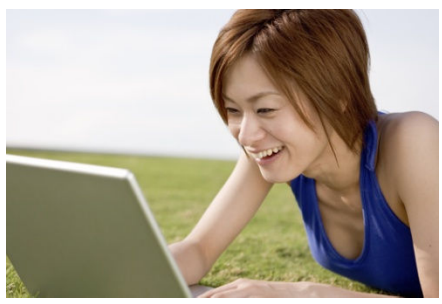
• A little bit of history first...



- SAM offered a web portal very useful for site administrators
- Experiments found it a bit confusing
- CMS wanted a different interface



- In early 2008, we developed an interface for CMS
- And then, more people came



- Provides a common access point to the end users:
 - VOs (experiments)
 - Site administrators (under development)

- Accessible from everywhere

- Configured for several VOs



SAM VISUALIZATION

Please select a VO or a site in one of the lists below, and click "See results"

VOs:

Alice
 Atlas
 CMS
 LHCb
 OPS

Sites:

AEGIS01-PHY-SCL
 AEGIS07-PHY-ATLAS
 AGH-ICSR
 AGLT2
 ALBERTA-LCG2
 AUSTRALIA-ATLAS
 AUVERGRID
 BEGRID-KULEUVEN
 BEGRID-UGENT
 BEGRID-ULB-VUB

<http://dashb-sam.cern.ch>

1st step: Choose the parameters



SAM VISUALIZATION | ATLAS

VO view
Site View
Feedback
Help

Latest Results
Historical View

Sites

FZKSITES

FZKSITES

CSCS-LCG2

CYFRONET-LCG2

DESY-HH

DESY-ZN

FZK-LCG2

GoeGrid

HEPHY-UIBK

LRZ-LMU

MPPMU

PSNC

UNI-FREIBURG

prague1cg2

wuppertalprod

Service Types

WLCG Critical (FCF)

Select all

CE

FTS

LFC

SE

Test Types

Critical tests only

Select All

CE-ATLAS-sft-lcg-tag

CE-sft-job

CE-sft-vo-swdir

FTS-channels

LFC-ls

LFC-writefile

SE-ATLAS-lcg-cp

SE-ATLAS-lcg-cr

SE-ATLAS-lcg-del

Test Exit Status

All Exit Status

na

ok

info

note

warn

error

crit

maint

Show Results

Display in a new window

Groups and names defined by the VO

Different algorithms available

EGEE-III INFISO-RI-222667

SAM web portal – Pablo.Saiz@cern.ch

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2nd step: Analyze the results



Sitename	Service Type	Service Name	atlas-lcgtag	js	swdir	ftschn	lfcls	lfcwf	atlas_cp	atlas_cr	atlas_del
IN2P3-CC	CE	cclcgceli01.in2p3.fr	ok	ok	ok						
		cclcgceli02.in2p3.fr	ok	ok	ok						
	FTS	cclcgftsprod.in2p3.fr				ok					
	LFC	lfc-prod.in2p3.fr					ok	ok			
	SE	ccsrn.in2p3.fr							ok	ok	ok
INFN-CNAF	CE	gridit-ce-001.cnaf.infn.it	warn	ok	ok						
NDGF-T1	FTS	fts001.nsc.liu.se				ok					
	SE	srm.ndgf.org							ok	ok	ok
NIKHEF-ELPROD	CE	gazon.nikhef.nl	ok	ok	ok						
		trekker.nikhef.nl	ok	ok	ok						
	LFC	opkamer.nikhef.nl					ok	ok			
	SE	tbn18.nikhef.nl							ok	ok	ok
RAL-LCG2	FTS	lcgfts.gridpp.rl.ac.uk				ok					
	LFC	lcglfc0377.gridpp.rl.ac.uk					error	error			
		lfc.gridpp.rl.ac.uk					ok	ok			
	SE	srm-atlas.gridpp.rl.ac.uk							ok	ok	ok
SARA-MATRIX	CE	ce.gina.sara.nl	ok	ok	ok						
		celisa.grid.sara.nl	ok	ok	ok						
	FTS	fts.grid.sara.nl				ok					
	LFC	lfc-atlas.grid.sara.nl					ok	ok			
	SE										

Node history

Maintenance

Links to the SAM results

- 1st step: Define critical tests
- Only accessible to VO admin
 - <http://dashb-sam-availability.cern.ch>

Django administration

Welcome, root. Documentation / Change password / Log out

[Home](#) > [ATLAS](#) > [Availabilities](#) > [Add availability](#)

Add availability

Name:

Tests:

Available tests

- FTS-host-cert-valid (cert)
- FTS-infosites (ftsinfo)
- FTS-transfer (xfer)
- FTS-transfer-BNL-LCG2 (BNL-LCG2)
- FTS-transfer-FZK-LCG2 (FZK-LCG2)
- FTS-transfer-IN2P3-CC (IN2P3-CC)
- FTS-transfer-INFN-T1 (INFN-T1)
- FTS-transfer-NDGF-T1 (NDGF-T1)
- FTS-transfer-NIKHEF-ELPROD (NIKHEF-ELPROD)
- FTS-transfer-RAL-LCG2 (RAL-LCG2)
- FTS-transfer-SARA-MATRIX (SARA-MATRIX)
- FTS-transfer-TRIUMF-LCG2 (TRIUMF-LCG2)
- FTS-transfer-Taiwan-LCG2 (Taiwan-LCG2)

[Choose all](#)

Chosen tests

Select your choice(s) and click [+](#)

- CE-sft-job (js)
- CE-sft-vo-swdir (swdir)
- FTS-channels (ftschn)
- LFC-ls (lfcls)
- LFC-writefile (lfcwf)
- SE-lcg-cp (cp)
- SE-lcg-cr (cr)
- SE-lcg-del (del)

[Clear all](#)

- 2nd step: Ask what you want to see
- Accessible for all users



SAM VISUALIZATION | ATLAS

VO view
Site View
Feedback
Help

Latest Results HistoricalView

View

Site Availability ▾

Quality Plot
 Availability Ranking Plot

Show Results

Algorithm

Ganga Robot
WLCG Critical
WLCG_SRM2

Time Range

Last 24 Hours ▾

Sites

Tier0 + Tier1s ▾

Tier0 + Tier1s
CERN-PROD
FZK-LCG2
IN2P3-CC
INFN-CNAF
NDGF-T1
NIKHEF-ELPROD

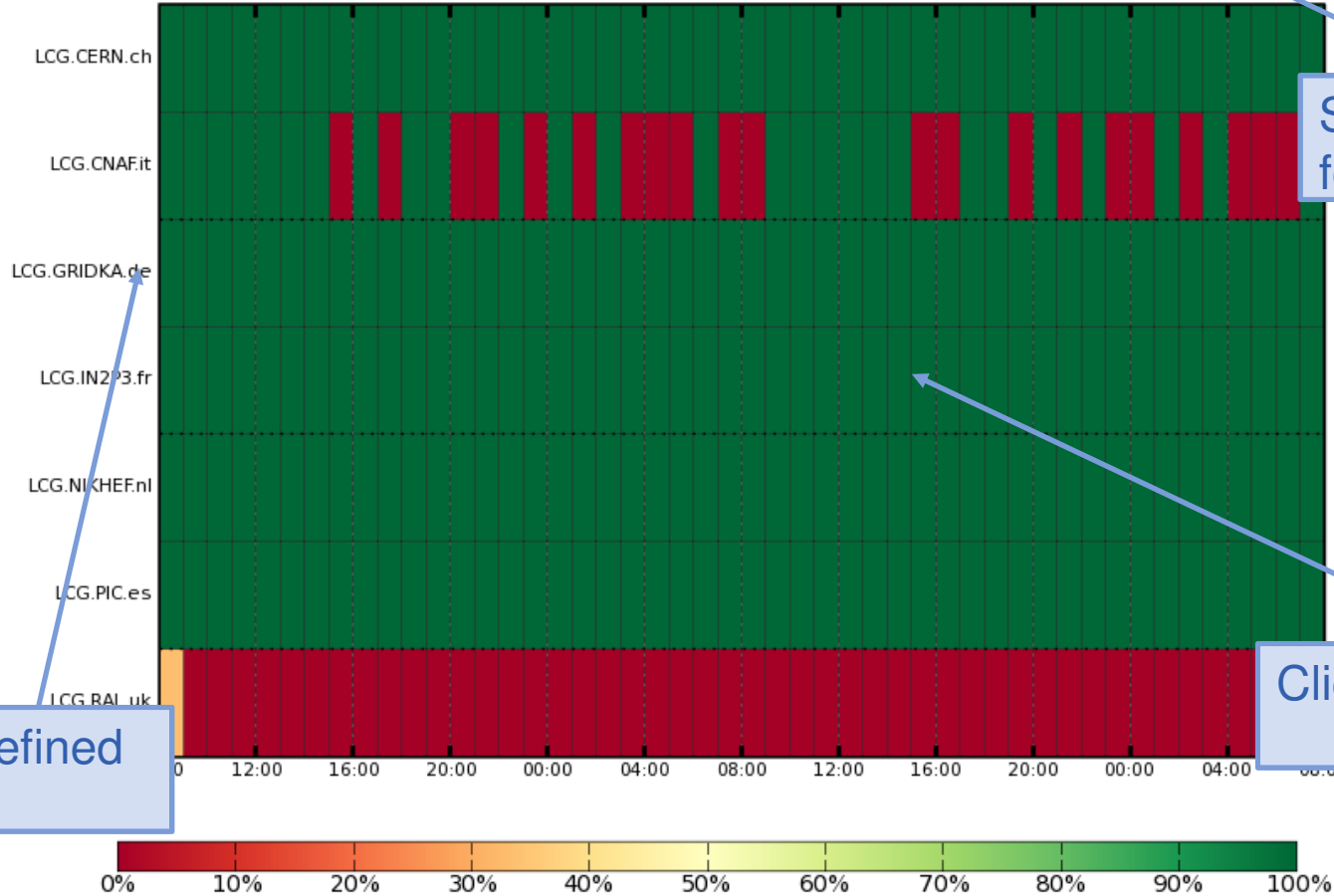
- Site or service
- Availability or reliability

Site selection



Site Availability using LHCb Critical Availability

48 Hours from 2009-02-28 08:00 to 2009-03-02 08:00 UTC

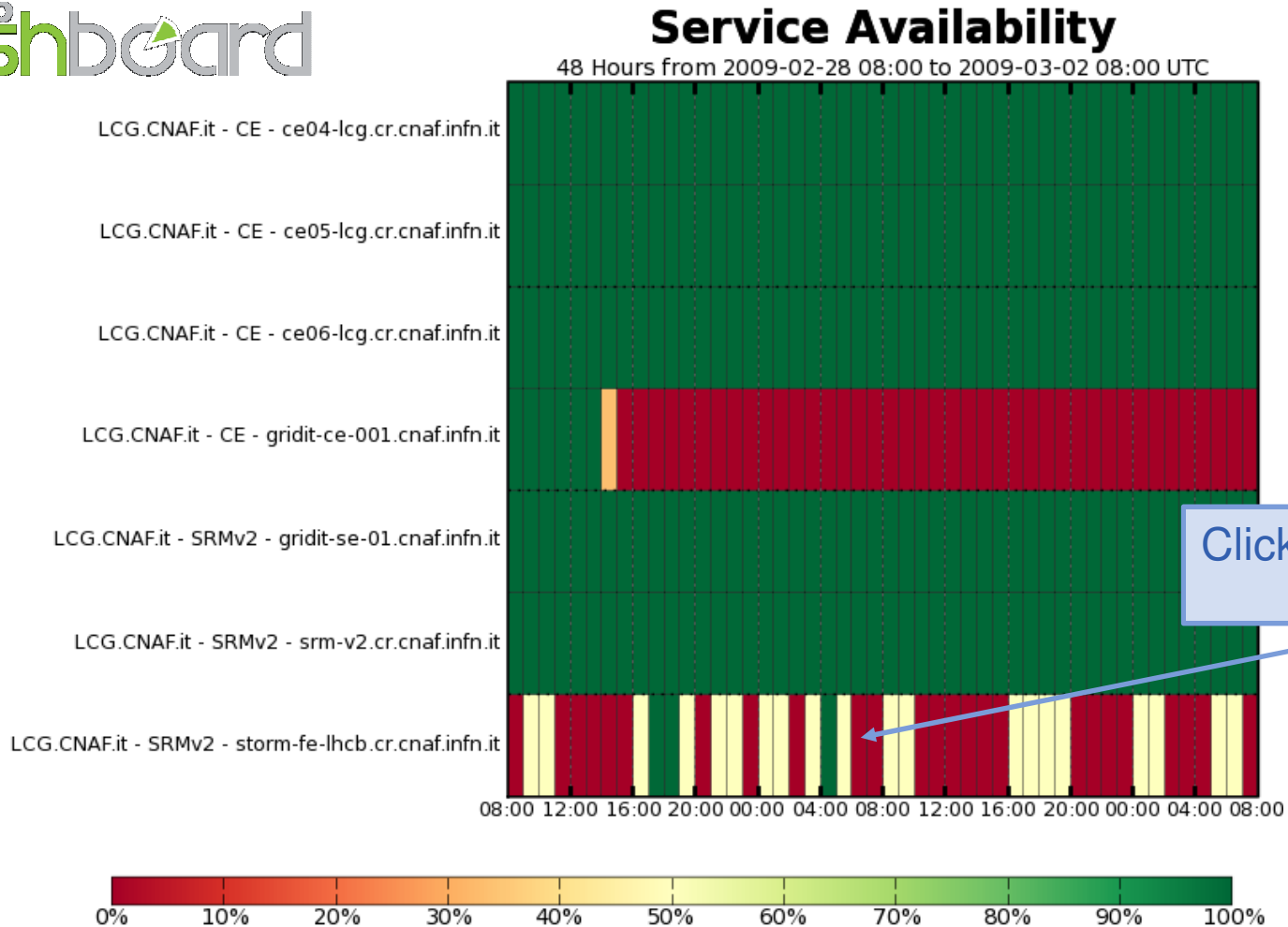


Similar plots for reliability

Clickable plot

LHCb defined names

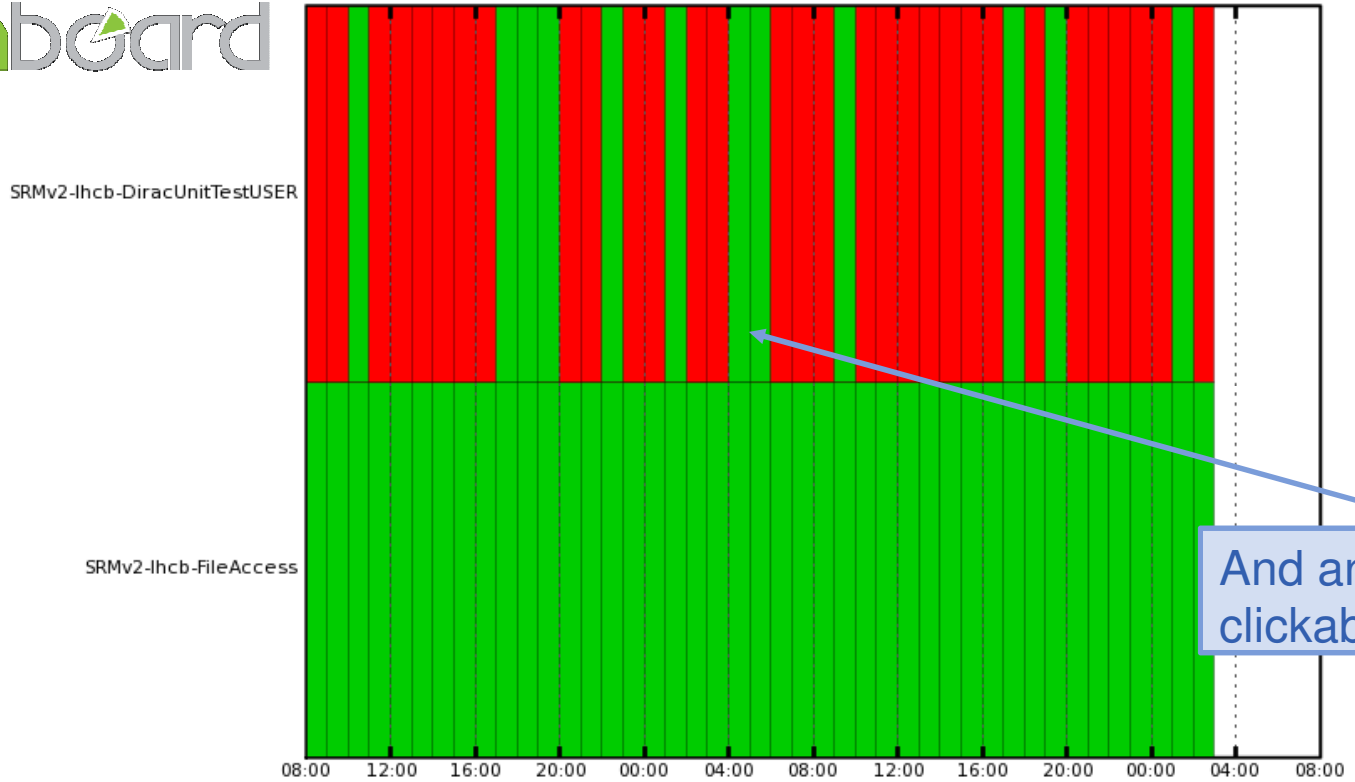
Investigating the services at the site



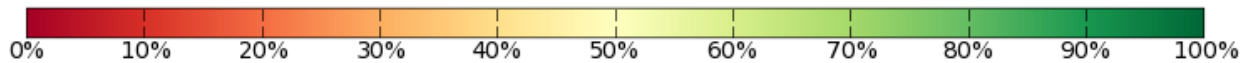
Test results for storm-fe-lhcb.cr.cnaf.infn.it



48 Hours from 2009-02-28 08:00 to 2009-03-02 08:00 UTC



And another clickable plot !!



Going all the way to the test log

SAM test: *SRMv2-lhcb-DiracUnitTestU*
Submitter VO: *lhcb*
Node: *storm-fe-lhcb.cr.cnafr.infn.it*
Execution time: *01-Mar-2009 08:33:04*

```
test_createUnitTestDir (__main__.FileTestCase) ... ok
test_putExistsFile (__main__.FileTestCase) ... ok
test_putFilegetTransportURL (__main__.FileTestCase) ... ok
test_putGetFile (__main__.FileTestCase) ... ok
test_putGetFileMetaData (__main__.FileTestCase) ... ok
test_putGetFileSize (__main__.FileTestCase) ... ok
test_putIsFile (__main__.FileTestCase) ... ok
test_putPrestageFile (__main__.FileTestCase) ... FAIL
test_putRemoveFile (__main__.FileTestCase) ... ok
```

```
=====
FAIL: test_putPrestageFile (__main__.FileTestCase)
```

```
-----
Traceback (most recent call last):
```

```
File "/afs/cern.ch/user/s/santinel/scratch0/grid/lhcb/DIRAC/DIRAC3/DIRAC/DataManagementSystem/Client/test/TestStoragePlugIn.py", line 542, in test_putPrestageFile
self.assert_(prestageRes['Value']['Successful'].has_key(destFile))
AssertionError
```

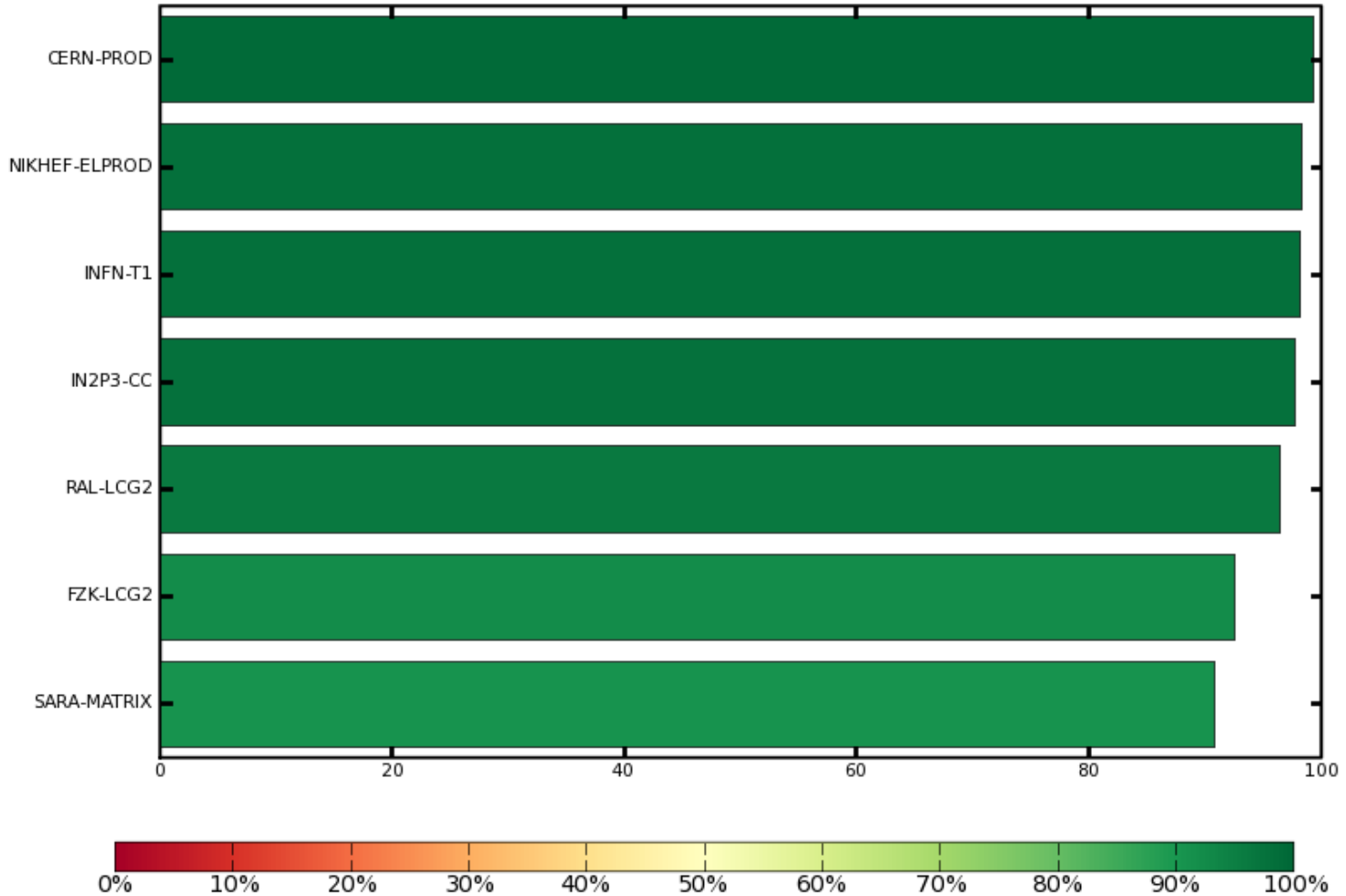
- Different availabilities

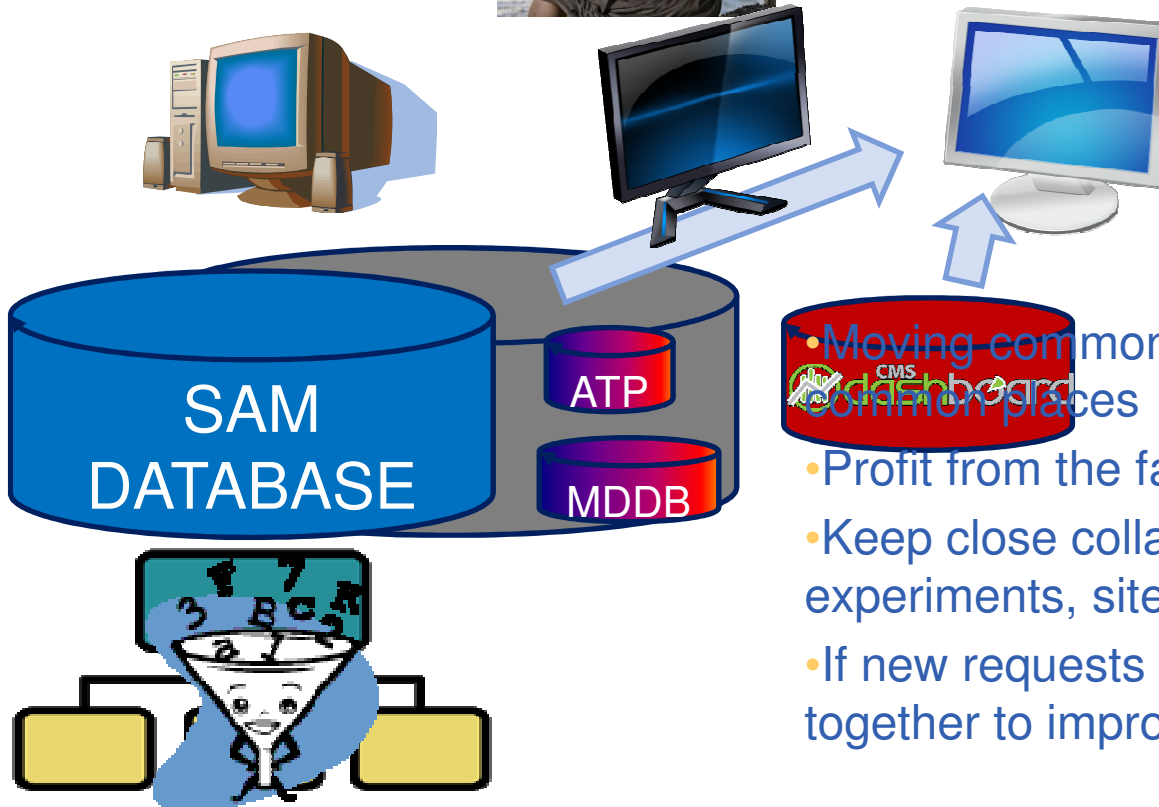
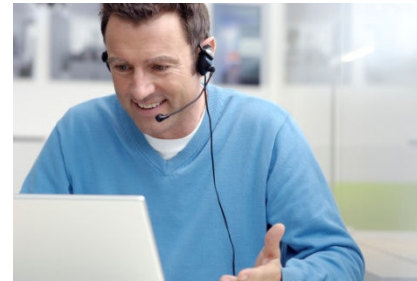
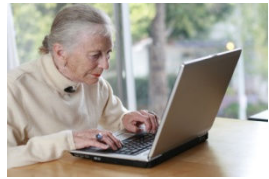
Sites	Ganga Robot		WLCG Critical (FCR)		WLCG_SRM2	
	Availability	Reliability	Availability	Reliability	Availability	Reliability
AEGIS01-PHY-SCL	100	100	82.64	82.64	82.64	82.64
AEGIS07-PHY-ATLAS	100	100	100	100	100	100
AGLT2	100	100	0	0	0	0
ALBERTA-LCG2	69.44	69.44	39.58	39.58	0	0
AUVERGRID	100	100	100	100	100	100
Australia-ATLAS	100	100	100	100	0	0
Australia-UNIMELB-LCG2	100	100	0	MAINT	0	MAINT
BEIJING-CNIC-LCG2-IA64	100	100	0	0	0	0
BEIJING-LCG2	100	100	100	100	100	100
BG01-IPP	100	100	100	100	100	100
BG02-IM	100	100	100	100	100	100
BG04-ACAD	100	100	100	100	100	100

Starting point for the
Metric Definition DB (MDDDB)



Site Availability, last 31 days





- Moving common functionality to common places
- Profit from the fast development pace
- Keep close collaboration with experiments, site admins, end users...
- If new requests come along, work together to improve the system

- **Generic web portal to the SAM test**
 - Latest results, historical views, quality ranks
- **Developed in close collaboration with the experiments**
 - Functionality requested by experiments
 - VO Site topology
- **Close collaboration with SAM group:**
 - Using the SAM database
 - No replication of data
 - Extra tables for topology (starting point for ATP)
- **Representation of different availabilities and reliabilities**
 - Defined by the experiments

<http://dashb-sam.cern.ch>