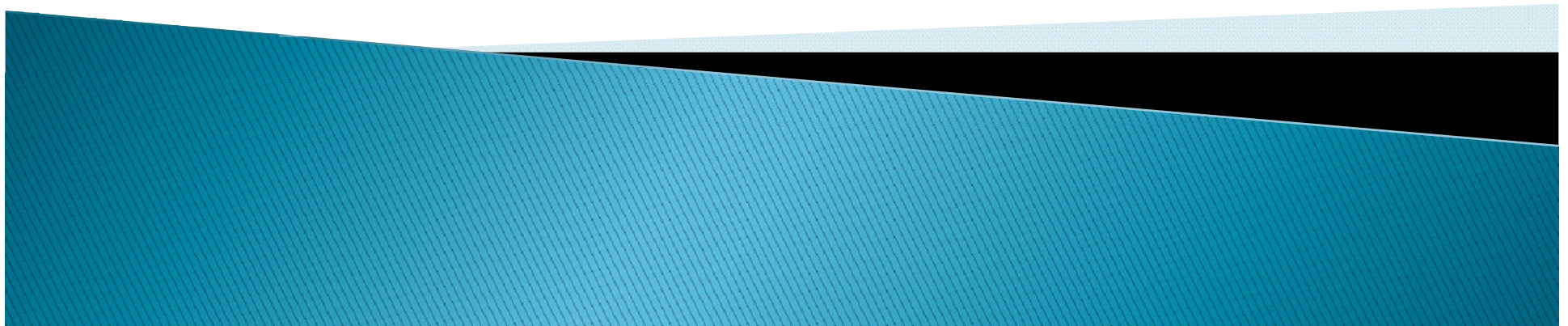


Site Status Board

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Site Status Board

- ▶ Representation of the sites according to VO metrics
- ▶ Easy to add new metrics
 - Just a couple of clicks away
- ▶ Metrics can be provided in different formats:
 - Text files: site commissioning
 - Different collector: BDII, PheDex, SAM, # jobs...
- ▶ Keep historical data

Components

- ▶ **DB:**
 - SITEVIEW, SITEVIEW_COLUMNS, SITEVIEW_DATA
 - SITEVIEW_PHEDEX_BUFFER, SITEVIEW_VIEWS
- ▶ **Collectors:**
 - Siteviewtext
 - Siteviewbasic
- ▶ **Web server:**
 - Standard dashboard web server
 - Output in html, xml, csv...

http://dashb-ssb.cern.ch/ssb.html

(last update at 12:07:09 11/13/2008 UTC)

[Scheduled central services interventions](#)
[Symbol explanation](#)
[Gridmap interface](#)
[Expanded table view](#)

Click on any of the headers to show/hide those sites

T0 +T1	T2		
T0_GH_GERN	T2_AT_Vienna	T2_BE_IJHE	T2_BE_UCL
T1_DE_FZK	T2_BR_SPRACE	T2_BR_UERJ	T2_CH_CSCS
T1_ES_PIC	T2_CN_Beijing	T2_DE_DESY	T2_DE_RWTH
T1_FR_CCIN2P3	T2_EE_Estonia	T2_ES_CIEMAT	T2_ES_IFGA
T1_IT_CNAF	T2_FI_HIP	T2_FR_CCIN2P3	T2_FR_GRIF_IRFU
T1_TW_ASGC	T2_FR_IPHC	T2_HU_Budapest	T2_IN_TIFR
T1_UK_RAL	T2_IT_Bari	T2_IT_Legnaro	T2_IT_Pisa
T1_US_FNAL	T2_IT_Rome	T2_KR_KNU	T2_PL_Warsaw
	T2_PT_LIP_Coimbra	T2_PT_LIP_Lisbon	T2_RU_IHEP
	T2_RU_IITEP	T2_RU_JINR	T2_TW_Taiwan
	T2_UK_London_Brunel	T2_UK_London_IC	T2_UK_SGrid_Bristol
	T2_UK_SGrid_RALPP	T2_US_Caltech	T2_US_Florida
	T2_US_MIT	T2_US_Nebraska	T2_US_Purdue
	T2_US_UCSD	T2_US_Wisconsin	
T2 waiting room			
T2_RU_RRC_KI	T2_RU_SINP	T2_TR_METU	T2_RU_PNPI

Different groups

Colour of the site defined by combination of critical metrics

[Algorithm for calculating the status of the site](#)
 Some of the columns of the table contribute to the status displayed in this page. At the moment, the columns that contribute are:
 BDI: Visible
 SAM TESTS: CE
 SAM TESTS: SRM
 Production

If you want to change that, go to the column definition and update the field 'Column Critical'

Legend

- The site is ok
- At least one of the critical metrics is ok
- At least one of the critical metrics is not ok (more than 72)
- The site is in maintenance

Include maintenance
And how long a site has been down

Main table

Each column can be provided by a different source

Site Name	Visible	JobRobot	SAM TESTS		Production	Analysis	Site usage		Phedex			CMSSW	Open issues	Maintenance	Maintenance (expand this column)
			CE	SRM			Running	Pending	# Links	In rate	Out rate				
T0_CH_CERN	n/a	n/a	error	OK	100%(460)	94%(437)	n/a	n/a	ok	0	123	n/a	info	GOCDDB-info	n/a
T1_CH_CERN	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ok	89	53	n/a	info	n/a	n/a
T1_DE_FZK	OK	n/a	OK	OK	100%(1838)	77%(2544)	296	1744	ok	58	43	OK	info	GOCDDB-info	n/a
T1_ES_PIC	OK	n/a	OK	OK	16%(37)	88%(16)	52	1725	ok	272	194	OK	info	GOCDDB-info	n/a
T1_FR_CCIN2P3	OK	n/a	error	error	100%(22)	9%(100)	259	1695	ok	11	29	OK	info	GOCDDB-info	n/a
T1_IT_CNAF	OK	100%(101)	OK	OK	n/a	100%(179)	2	171	ok	3	13	OK	info	GOCDDB-info	n/a
T1_TW_ASGC	OK	100%(101)	OK	error	100%(63)	27%(408)	37	39	ok	16	17	OK	info	GOCDDB-info	n/a
T1_UK_RAL	OK	95%(101)	OK	OK	98%(152)	100%(91)	24	117	ok	20	33	OK	info	GOCDDB-info	n/a
T1_US_FNAL	OK	n/a	OK	OK	100%(19010)	56%(1185)	8657	3277	ok	425	296	OK	info	DSG-downtime	n/a
T2_AT_Vienna	OK	n/a	OK	OK	n/a	98%(50)	10	133	ok	0	1	OK	info	GOCDDB-info	n/a
T2_BE_IHE	OK	100%(101)	OK	OK	100%(34)	99%(40)	121	380	ok	5	0	OK	info	GOCDDB-info	n/a
T2_BE_UCL	OK	n/a	OK	OK	100%(24)	100%(24)	2	333	ok	1	1	OK	info	GOCDDB-info	n/a
T2_BR_SPRACE	OK	n/a	OK	OK	n/a	n/a	2	n/a	ok	1	0	OK	info	DSG-downtime	n/a
T2_BR_UERJ	OK	100%(101)	error	error	n/a	91%(213)	42	47	ok	3	0	OK	info	DSG-downtime	n/a
T2_CH_CAF	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	ok	0	0	n/a	info	n/a	n/a
T2_CH_CSCS	OK	n/a	OK	OK	100%(528)	100%(13)	152	1455	ok	1	1	OK	info	GOCDDB-info	n/a
T2_CN_Beijing	OK	n/a	OK	OK	100%(6)	100%(70)	40	204	ok	2	1	OK	info	n/a	n/a
T2_DE_DESY	OK	100%(101)	OK	OK	n/a	81%(948)	110	1498	ok	43	1	OK	info	n/a	n/a
T2_DE_RWTH	OK	100%(101)	OK	OK	100%(934)	97%(437)	1757	4465	ok	2	2	OK	info	n/a	n/a
T2_EE_Estonia	OK	n/a	error	OK	84%(122)	n/a	59	154	ok	2	2	OK	info	n/a	n/a
T2_ES_CIEMAT	OK	100%(101)	OK	OK	95%(1814)	95%(3084)	252	389	ok	3	17	OK	info	n/a	n/a
T2_ES_IFCA	OK	100%(101)	OK	OK	33%(3)	30%(92)	53	409	ok	5	10	OK	info	n/a	n/a
T2_FI_HIP	warning 1/2	n/a	n/a	OK	100%(27)	n/a	1	26	ok	1	0	n/a	info	GOCDDB-info	n/a
T2_FR_CCIN2P3	OK	n/a	error	n/a	100%(11)	95%(21)	710	1455	n/a	n/a	n/a	OK	info	GOCDDB-info	n/a
T2_FR_GRIF_IRFU	error	n/a	OK	OK	100%(6)	99%(70)	142	513	ok	1	0	OK	info	GOCDDB-info	n/a
T2_FR_GRIF_LLRC	n/a	100%(101)	n/a	n/a	n/a	n/a	n/a	n/a	ok	1	1	n/a	info	GOCDDB-info	n/a
T2_FR_IPHC	OK	98%(192)	OK	OK	100%(11)	98%(58)	29	178	error	5	0	OK	info	GOCDDB-info	n/a
T2_HU_Budapest	OK	95%(101)	error	OK	n/a	100%(39)	18	106	ok	5	1	OK	info	GOCDDB-info	n/a

Cells can have links to more detailed information

Alternative views

Multiple views, and freedom to create new ones

These are the existing views:

View	Columns	
commission	Commissioned Links,Maintenance,Site availability,SiteComm JR,SiteComm Status	<input type="button" value="modify"/>
expert	Pledged slots,Pledged, TB,SiteSize	<input type="button" value="modify"/>
space	Combined Space Monitoring,Pledged, TB,on site(DBS), TB,on site(phedex), TB,subscription, TB	<input type="button" value="modify"/>
maint	CIC downtime,GOC downtime,Maintenance,OSG downtime,Savannah,Savannah manual,Under investigation	<input type="button" value="modify"/>
		<input type="button" value="Create View"/>

Combination of columns

Site Name	SiteComm JR	Commissioned Links (expand this column)	Site availability	SiteComm Status	Maintenance (expand this column)
T0_CH_CERN	99%(404)	n/a	0.04	n/a	n/a
T1_CH_CERN	n/a	combined	0.04	n/a	n/a
T1_DE_FZK	0%(404)	combined	0.32	U	n/a
T1_ES_PIC	n/a	combined	0.92	C	n/a
T1_FR_CCIN2P3	0%(404)	combined	0.22	U	n/a
T1_IT_CNAF	100%(606)	combined	0.84	U	n/a
T1_TW_ASGC	0%(202)	combined	0	U	n/a
T1_UK_RAL	73%(404)	combined	1	W	n/a
T1_US_FNAL	100%(202)	combined	1	C	n/a
T2_AT_Vienna	100%(203)	combined	0.95	U	n/a
T2_BE_IHHE	75%(404)	combined	1	W	n/a
T2_BE_UCL	100%(202)	combined	1	C	n/a

Site commissioning view
(Thanks to Andrea Sciaba, Josep Flix, Jose Hernandez)

Adding columns

To add a new column, fill the following form:

Column Name	<input type="text" value="JobRobot"/>	
Column Description	<input type="text" value="OK if JR is succeeding at least 80% in last 24h"/>	
Column URL	<input type="text" value="http://psaiz.home.cern.ch/JobRobotResults.html"/>	If you want to have a link from the column header, put it here
Column source	<input type="text" value="http://psaiz.home.cern.ch/JobRobotResults"/>	This page will be downloaded, and it should contain the status of the sites for this test. The format should be:
Column Group	<input type="text"/>	
Column Critical	<input type="checkbox"/>	This metric contributes to the overall color of the site
Column frequency	<input type="text" value="600"/>	Number of seconds that the collector should wait before getting the data again
Column debug	<input type="checkbox"/>	Keep this box if you don't want the column in the general view
<input type="button" value="Add column"/>		

The format of the input text file should be:

<TimeStamp> <SiteName> <Status> <Color> <URL>

For example

2008-02-14 17:20 T1_CH_CERN ok green http://pointerTosomething

2008-02-14 17:21 T1_DE_FZK ok green http://pointerTosomething

2008-02-14 17:21 T1_IT_CNAAF error red http://pointerTosomething

You can put any status you want. However, unless strictly necessary, please try to limit to: OK, error, warning, or numbers

For the color, again you have the freedom to put any color name (or hex value). But please, try to limit to

white red green yellow and if you still need more... grey brown cyan

The intensity of the color will change according to the timestamp of the value (older entries will be lighter)



With x509 security
(and only if your dn is
registered as admin)

Recent improvements

- ▶ X509 authentication for adding columns, views
- ▶ Gridmap interface
- ▶ Maintenance status
- ▶ Lots of feedback from users
 - S. Belforte, J. Flix, A. Sciaba, J. Hernandez, X. Zhang, P. Kreuzer, ...
 - Improving the application

Still to do...

- Sites under investigation
 - Pointer to Savannah, GGUS, ...
- Historical view of values
- More plot types:
 - Different metrics for the same site
- Keep user support
 - Without them, we would be bored 😊

Conclusion

- ▶ Site Status Board:
 - Representation of the status according to VO metrics
 - Easy interface to add/modify columns
 - Displays current status and historical data
 - Allows links to more detailed information
- ▶ Used by CMS computing shifter and site commissioning exercise
 - Tested also by the Space Monitoring
- ▶ Could be used by other VOs

<http://dashb-ssb.cern.ch/ssb.html>