

CMS Site Downtime GCalendar

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CERN, May 20, 2010

Motivation

- In the context of the [CMS Computing Operations and 24/7 shift procedures](#), it is important to have a good overview of the past/current/future CMS site downtime situation
- In particular, the CMS Computing Run Coordinator (CRC) relies a lot on the GCalendar to [plan](#) the day and [trouble shoot](#) problems
- The GCalendar has the advantages to
 - show [CMS-specific](#) site downtimes on a [single view](#) (see next slide)
 - distinguish [Partial](#) or [Full](#) site downtimes (“Partial” marked with “#”)
 - include [Unscheduled](#) site downtimes (this is not the case e.g. of the CMS Site Status Board - <http://dashb-ssb.cern.ch/dashboard/request.py/siteviewhome> - which is used in parallel by the CMS Computing Shift Personnel)

- Scheduled and un-scheduled downtimes --- Complete: ██████████
- This calendar can be use as a intuitive downtime view, besides the OSG sites, it should be consistent with Site Status Board(except OSG sites).

Today ◀ ▶ May 2010 Print Week Month Agenda

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	May 1
					4:01pm # T2_FR_GR 8:01pm # T2_FR_GR	
2	3	4	5	6	7	8
	(12:00am) T2_RU_JINR/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE (7:00am) T2_CH_CSCS/ SCHEDULED downtime (4:45pm) T2_BE_UCL/ SCHEDULED downtime +2 more	1:59pm T2_RU_JINR/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE	7am # T2_IT_Pisa/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE	3pm T2_FR_IPHC/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE	(6:26am) T2_RU_ITEP/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE	
9	10	11	12	13	14	15
↑T2_RU_ITEP/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE	5am T2_PK_NCP/ SCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE (9:00am) # T1_UK_RAL/ SCHEDULED downtime 6:30pm T2_RU_JINR/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE 7:30am # T1_ES_PIC/ SCHEDULED downtime +3 more	(11:51am) # T2_IT_Pisa/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE				
16	17	18	19	20	21	22
	↑T2_RU_ITEP/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE (6:00am) # T2_RU_SINP/ SCHEDULED downtime ↑T2_UK_SGrid_RALPP/ SCHEDULED downtime (12:00am) T2_CN_Beijing/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE (5:27pm) T2_RU_ITEP/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE +3 more	(3:00pm) T2_UK_SGrid_RALPP/ SCHEDULED downtime (12:00am) T2_CN_Beijing/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE (3:00pm) T2_UK_SGrid_RALPP/ SCHEDULED downtime +5 more				
23	24	25	26	27	28	29
↑# T2_BR_UERJ/ SCHEDULED downtime ↑# T2_BR_UERJ/ SCHEDULED downtime ↑T2_BR_UERJ/ SCHEDULED downtime						
30	31	Jun 1	2	3	4	5
	7:45am T1_UK_RAL/ SCHEDULED downtime					

T2_RU_ITEP/ UNSCHEDULED downtime (OUTAGE) [2010-05-07 06:26 to 2010-05-12 20:26 UTC] OUTAGE

When Fri, May 7, 6:26am – Wed, May 12, 8:26pm

Where srmv2: 2/2, creamce: 1/1, ce: 3/3, senf01.itep.ru
ce3.itep.ru glwms.itep.ru se3.itep.ru ceitep.itep.ru
ceglite.itep.ru ([map](#))

Description The problems with air-conditioning. [LINK](#)

[more details»](#) [copy to my calendar»](#)

Events shown in time zone: GMT (no daylight saving) + Google Calendar

Working Principles

- Information about services provided to CMS :
<http://dashboard02.cern.ch/dashboard/request.py/checkhost>
 - Mapping between CMS internal site names and SAM names from the internal CMS SiteDB
https://cmsweb.cern.ch/sitedb/reports/showXMLReport/?reportid=cms_to_sam.ini .
 - Parsing information about downtimes from :
 - http://cic.gridops.org/downtime_rss.php?id_sub=1641
 - <http://myosg.grid.iu.edu/rgdowntime/xml?datasource=...>
- + mapping with the information above (CMS names, services)
- **Current version:**
 - everything is published to Google Calendar. This is done automatically, via GCALDaemon tool (<http://gcald daemon.sourceforge.net/>) , basically our script produces "ics" file, GCALDaemon takes it and uploads to Google Calendar. This way it replaces all current information with new and any information which is not available any more from CIC feed and/or OSG is lost.
 - **Future version:**
 - Get rid of GCALDaemon, reason is we can't control what is going on during synchronization.
 - Connect directly to GCalendar, via Google provided API.
 - Save the past downtimes for some time (maybe for a year (to be discussed)) in a local database (SQLite, which is supported by Python with no additional requirements).
 - It is already working and is in testing phase.
 - Current version is running on vocms10, and information is updated every 15min.

Credits

- Original author : Liang Dong (CMS, IHEP Institute, China)
- Responsible and maintainer : Rapolas Kaselis (Vilnius University)
- Thanks for their kind support to :
 - CIC team, in particular Cyril L'Orphelin
 - GOCDB support
 - MyOSG GRID support
 - CERN Dashboard support
 - CMS: Andrea Sciaba, Diego da Silva Gomes, ...