CMS Site Downtime GCalendar

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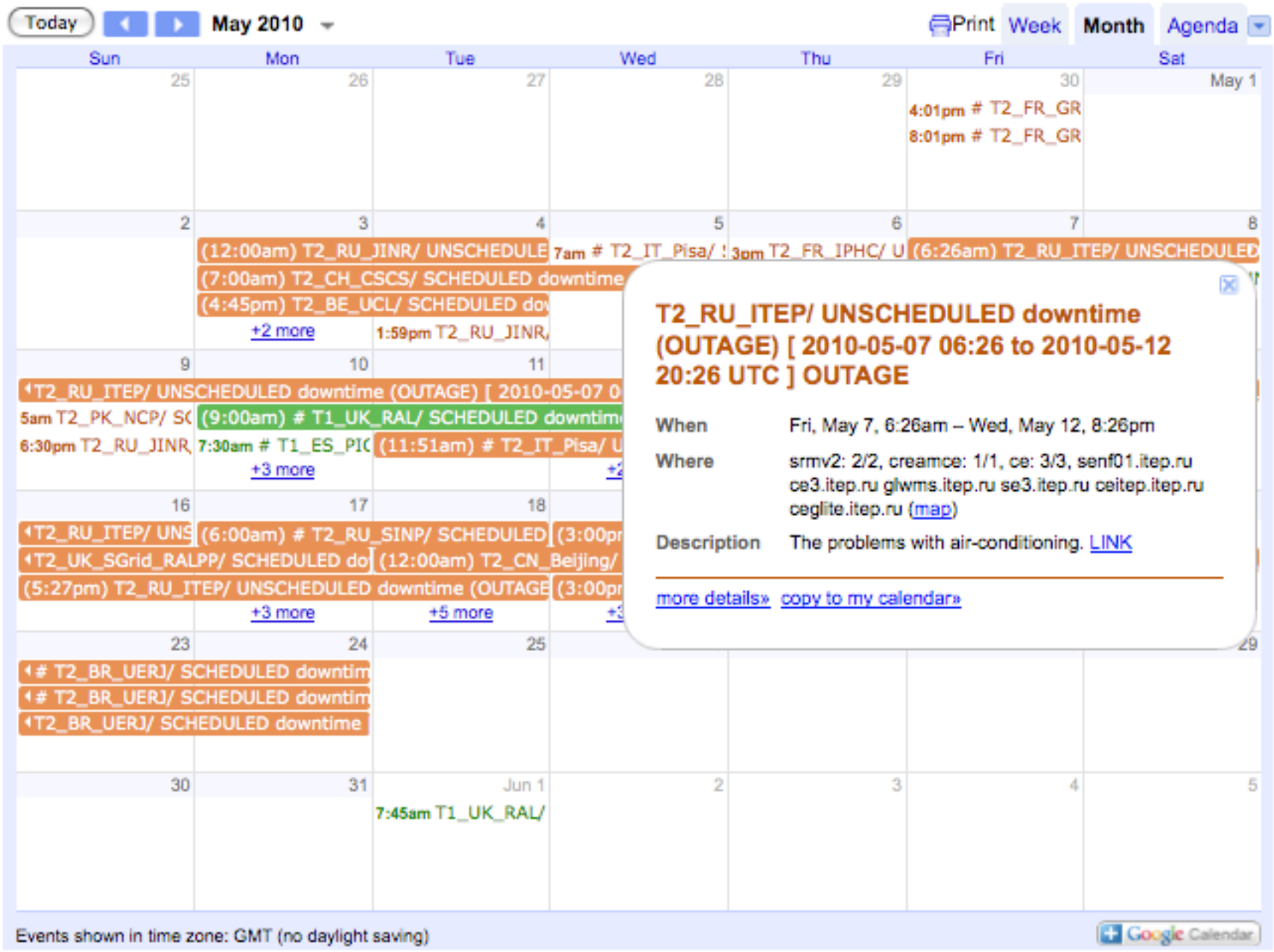
Motivation

- 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 Unschedulled 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)

- **Schedulled and un-schedulled 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).



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://gcaldaemon.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, …