



SUM like functionality with WLCG-MON

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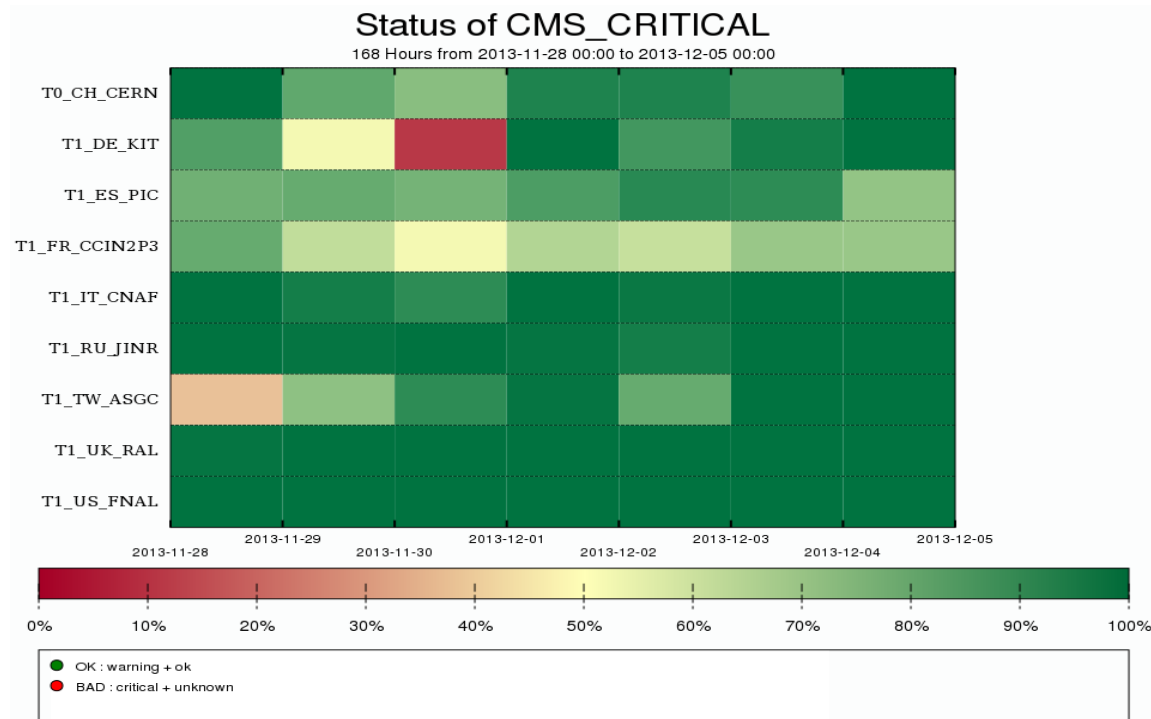


What do we mean by SUM like?

- Historical plots
 - sites availability/reliability
 - services availability/reliability
 - metrics history per hostname
 - metric's detailed output
- Latest results table
 - “SUM uses the screen very economically”
- drill down navigation between the plots
- filters for sites, group of sites, services, metrics, hostnames

Site reliability historical plot

- New type of historical **metric** plot implemented in SSB (WLCG-MON)
- Reliability calculated by formula $\text{good}/(\text{good}+\text{bad})$
- $\text{good} = \{\text{'warning', 'ok'}\}$
- $\text{bad} = \{\text{'critical', 'unknown'}\}$
 - Configurable per metric
- Idea is to use the same plot for service reliability

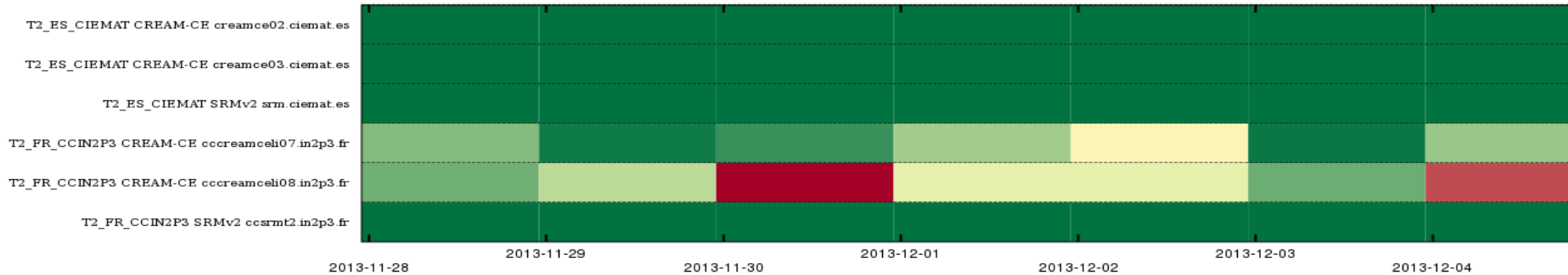


Service reliability historical plot ?

- We need plot like

Service reliability using CMS_CRITICAL_FULL

168 hours from 2013-11-28 00:00 to 2013-12-05 00:00

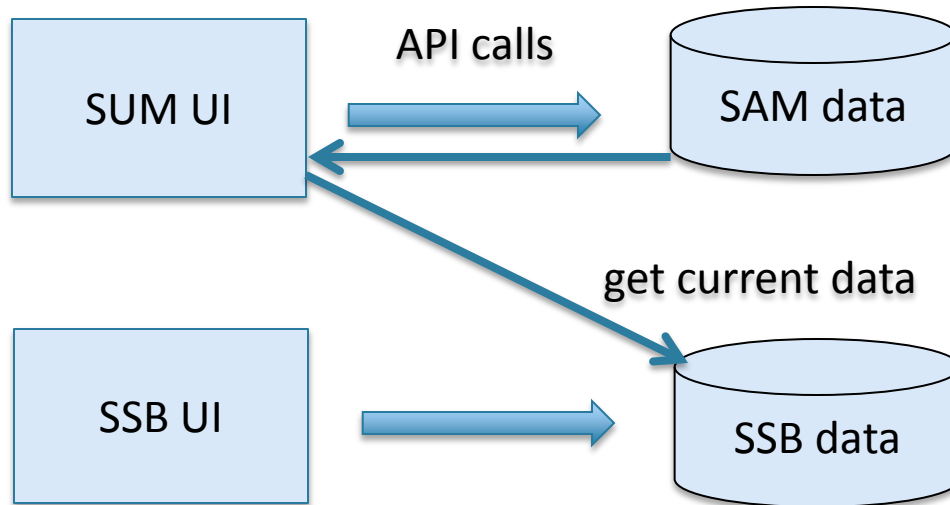


showing reliability for set of service flavors (CREAM-CE, SRMv2) for set of sites (T2_ES_CIEMAT, T2_FR_CCIN2P3) per profile

- In SSB status of single service flavor (per profile) is different metric
- Need of cross metric, cross instance historical SSB plot – MxN
 - SSB not flexible enough, has historical plots only per metric (1xN) or per instance (Mx1)
- Here we thought a bit. If we want to provide SUM like functionality, why not use SUM ?

Current usage of SUM

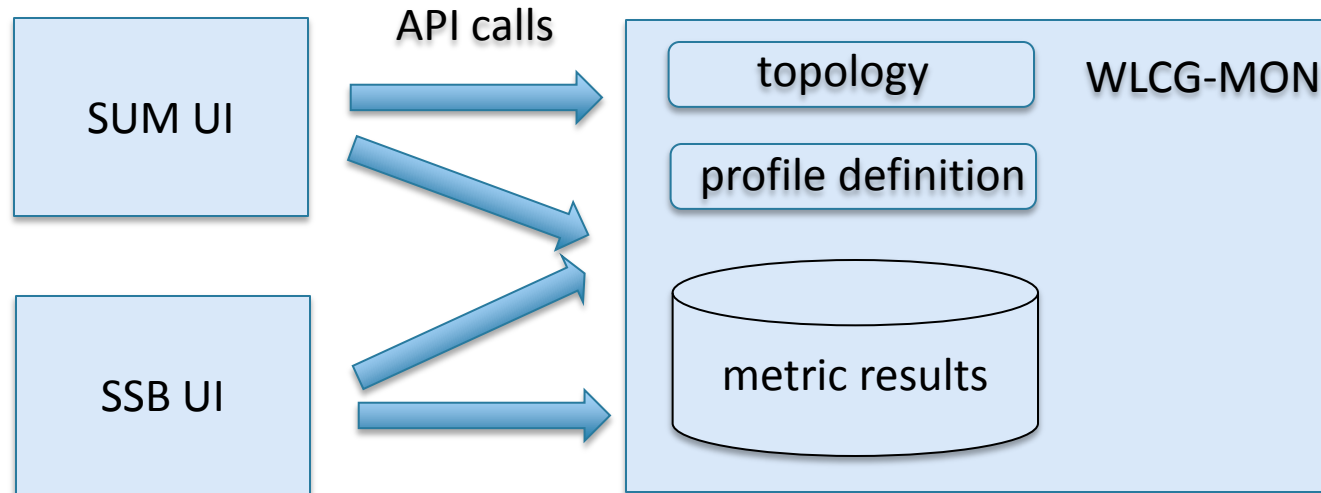
- SUM
 - User interface for displaying SAM data
 - No DB behind it, works with API calls
- SSB interacting with SUM



- SSB data not in sync with re-computed historical SAM data

Future usage of SUM

- SUM on top of WLCG-MON



- Single data store
 - Re-computed data will be seen by both applications

SUM on top of WLCG-MON



<http://wlcg-sam-cms.cern.ch>

Advantages of using SUM

- Migration to WLCG-MON will be transparent for the end user
 - SUM will serve the same plots and data as it used to do
- No UI has to be re-written
- Validation of the new system will be much easier
 - Validate data out of two equivalent systems – “old” and “new” SUM

Disadvantages of using SUM

- Maintain 2 different user interfaces

Which way do we go ?



WLCG-MON TODO list

...assuming we decide to adopt SUM

- SUM side
 - metric result details and latest results part
 - Availability plots when site/service downtimes are introduced to WLCG-MON
- Profiles definition – currently in static JSON file -> move to DB
 - Changes in aggregation, SUM actions
- Service type <-> flavor mapping
 - Changes in aggregation?, SUM actions
- Site/service downtime handling
- Re-computations on aggregated data with SSB “modify metric data” functionality
- Validate data
- Monthly reports