



Input from CMS

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5 July 2013



Introduction

- Short assessment of each application in
 - <https://twiki.cern.ch/twiki/bin/view/LCG/InitialStatus>
- If not otherwise noted, no significant functionality is missing
- Communication between CMS and previous Dashboard and SAM teams was already very close, so CMS needs should be well known

Job Monitoring

- Interactive view
 - Essential for job tracking and troubleshooting
 - Should be continuously adapted to changes in CMS workload management
- Task monitoring
 - Very much used by analysis users
- Monitoring on Android
 - Convenient but not a priority
- Historical view
 - Totally essential for monitoring and accounting, both for central operations and for sites!
 - Must be accurate
- MyWLCG job trends
 - Not used

Data Management

- WLCG transfer dashboard
 - Useful for transfer monitoring and troubleshooting, complements PhEDEx
- AAA monitoring
 - Very useful as detailed xrootd monitoring
 - Still under development, not yet widely used
 - Needs more validation
 - Missing features:
 - Client-server matrix (now it's only source-destination)
 - Separation between local and remote traffic
- CMS Datasets, MyWLCG Transfers
 - Not used

Site/Service Monitoring (1)

- CMS VO feed
 - Essential for SAM
- CMS SSB
 - Essential for sites, computing shifts, central operations and site support
- CMS SUM
 - Essential for sites and computing shifts; might be merged with MyWLCG but all features must be retained
- CMS Nagios
 - Essential
- MIDMON, OPS-MONITOR
 - Outside of CMS scope
- SAM GridMon
 - Potentially very useful to CMS to make direct queries to SAM
- Monthly reports, A/R Trends, T0/1 SiteView, GridMap
 - Not used by CMS

Site/Service Monitoring (2)

- SAM Nagios installation, Probe development documentation
 - Very important (as all documentation)
- CMS Critical Services
 - Essential to CMS computing shifts
- Personalized dashboard
 - Not used (it might in the future)
- Google Earth interface
 - Not for operational use but “nice to have”
- SiteView
 - Possibly useful for sites but actual usage unknown; not so useful for CMS central operations
- SAM validation
 - Very useful for proper probe development and testing

Conclusions

- Most of the products of IT-SDC-MI are used by one or more of management, central operations, site contacts in CMS

Reminder

- The scope of this presentation was limited to the services provided by IT-SDC-MI. Many other monitoring tools provided by other parties are used by CMS, including but not limited to
 - IT-SDC-OL tools
 - Popularity, Victor, HammerCloud (also for commissioning/stress testing)
 - IT-SDC-ID tools
 - e.g. FTS3 Monitor
 - Tools from other IT groups
 - e.g. Lemon, SLS, ...
 - Tools from other institutes in WLCG
 - e.g. HappyFace, FTS2 Monitor, ...
 - Experiment-specific tools
 - PhEDEx monitoring, job monitoring tools, CMS Site Readiness, ...