

perfSONAR MONITORING SERVICE UPDATE

Szymon Trocha, GN3 (PIONIER) LHCOPN Meeting, Lyon, 10-11 Feb 2011

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Agenda



- Service update
- Service audit
- Service monitoring
- perfSONAR MDM 3.3





Service update (Oct-Dec) (1/2)



- GPS
 - US-T1-BNL and US-FNAL-CMS not using GPS
 - Both sites configured to use Stratum 1 NTP servers
 - FR-CCIN2P3 outage due to construction works to be fixed soon
- HADES outage (6 Dec 2010, 23 hours)
 - Downtime of database server, which affected all HADES MAs
 - Process of HADES hung
 - Lessons learnt
 - Improvements of handling outages by HADES processes to automatically recover after outage or process hanging
 - Enhancements to HADES data (NTP synch)
 - Improvements to Service Support





Service update (Oct-Dec) (2/2)



- Outstanding issues communicated quarterly to LHCOPN operation group
- New E2EMon MP instances
 - NORDUnet
 - ESNET
- New E2EMon MP instances at end points can be placed on the server that is managed by Service Desk for the other MP
 - The "glue" software still provided and maintained by individual domains





Service audit



- 2nd audit of perfSONAR MDM for LHCOPN
 - Scope similar to previous audit
 - Analyse the current status of perfSONAR MDM service for LHCOPN to verify issues were resolved and to improve the service quality
 - Audit results document distributed to the monitoring WG
 - Issues resulted from the 1st audit were fixed correctly
 - Minor issues for utilization for non T0-T1
 - E2EMon MP deployment in progress





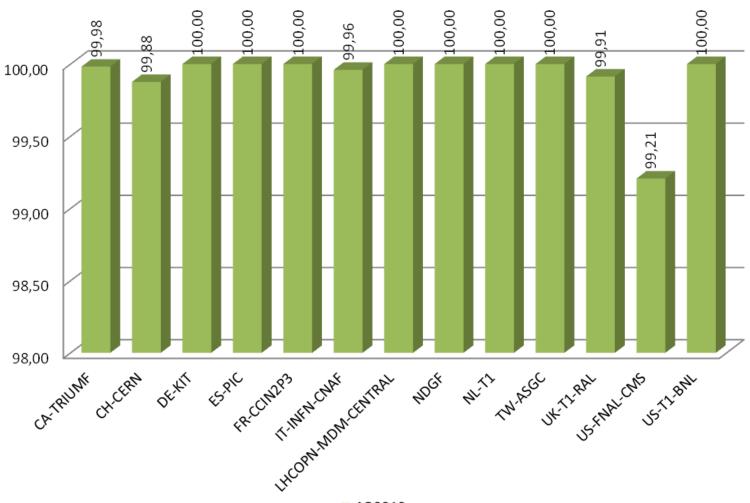
perfSONAR MDM for LHCOPN Service GÉANT

- Service is constantly monitored by Service Desk
 - Nagios
 - Service checks (ICMP, HTTP, perfSONAR Echo, NTP, etc)
 - Cacti
 - Server checks (ICMP, CPU, RAM, HDD, etc)
- Measured from the monitoring station in Amsterdam
- Cacti made available for LHCOPN partners
 - http://monitoring.perfsonar.eu/cacti/





perfSONAR MDM LHCOPN availability GÉANT (ICMP)



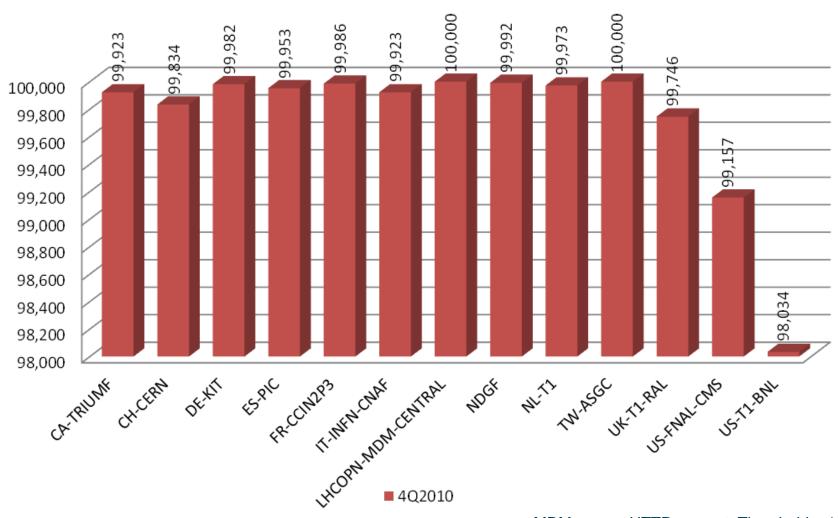








perfSONAR MDM LHCOPN availability GÉANT (Tomcat request)



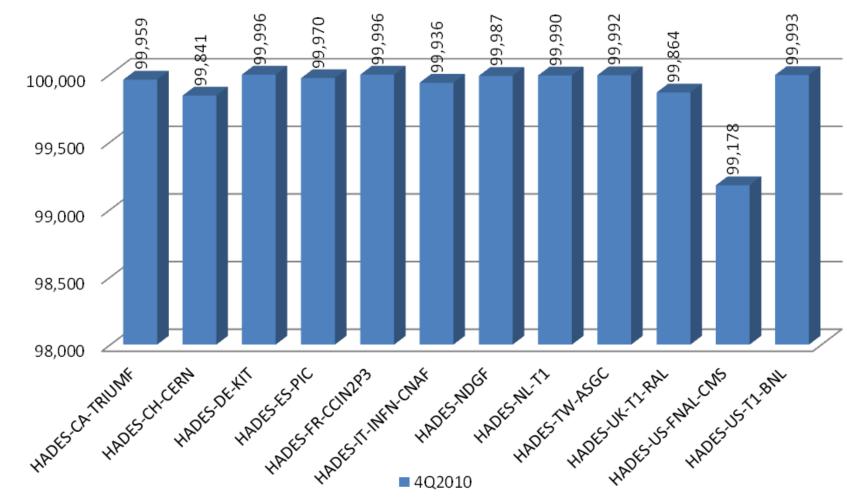




MDM server; HTTP request; Threshold: >10000ms

perfSONAR MDM LHCOPN HADES availability (BWCTL MP Echo)











perfSONAR MDM release 3.3



- RRD MA, SQL MA, BWCTL MP, E2EMon MP, SSH/Telnet MP, Lookup Service, AuthN&AuthZ Service
- perfsonarUI update
- DEB, RPM installation packages
- ISO DVD (Debian, CentOS)
- Changes
 - Most internal to products aimed at manageability and performance
 - Usage of new improved internal library
 - New WebAdmin interface (simplified, easier and faster startup)
 - Unified URL naming, without GEANT numbering (services remain backward compatible with old URL)
- http://perfsonar.forge.geant.net/



