Update on the WLCG Squid Monitoring Task Force

WLCG Operations Coordination Meeting
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Task force formed

- Members: Dario Barberis, Alexandre Beche, Doug Benjamin, Barry Blumenfeld, Simone Campana, Alastair Dewhurst, Alessandro Di Girolamo, Dave Dykstra, Stefan Roiser, Andrea Valassi
- Met October 4
- Objective: since squids are multipurpose and multi-VO, move monitoring to WLCG responsibility and integrate with common WLCG operations

Existing monitoring

- Existing monitoring for squids on frontier.cern.ch (MRTG) provides near-real time performance information, vital for debugging problems
  - This type of monitor has no parallel yet in WLCG but it is required
  - Based on SNMP, which is UDP, so it requires firewall openings at all sites listing specific IP address(es) of monitoring machines
- Additional monitoring used on the squids at the frontier & CVMFS servers to track where requests come from, awstats which should maybe also move to WLCG

Additional shifter alarms

- MRTG is for experts to debug after problem is known
  - SAM is too course-grained and slow for the type of information needed
- Task force members felt there was need for more shifter warnings
  - The most needed one is warnings based on failovers of worker nodes connecting directly to central servers
    - A tool exists that sends email alarms for CMS, should be extended to send warning via WLCG dashboard

Configuring MRTG

- We think that MRTG should be configured through a common information system
  - Does this make sense?
  - Currently ATLAS configures MRTG sites through AGIS, and CMS configures it manually but audits
  - WLCG information systems are GOCDB and OIM
- New information needed:
  - Internet-visible machine name and port (3401)
  - Ability to select monitoring page, ATLAS/CMS/cvmfs
  - CMS needs formatted site name like T1_US_FNAL