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# Squid Monitoring Task Force

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## Objectives

1. Make a plan for moving squid monitoring from CMS Frontier management to WLCG management
2. Decide how to integrate squid monitoring better with WLCG common operations
3. Produce an architecture for a common squid monitoring system that is configured the same way for all VOs

We should avoid defining how applications discover what proxies to use -- that will be a separate task force.

## Members

- Dario Barberis [↗](#) (ATLAS)
- Alexandre Beche [↗](#) (CERN-IT)
- Doug Benjamin [↗](#) (ATLAS)
- Barry Blumenfeld [↗](#) (CMS)
- Simone Campana [↗](#) (CERN-IT & ATLAS)
- David Crooks [↗](#) (NGI\_UK, added August 2014)
- Alastair Dewhurst [↗](#) (ATLAS)
- Alessandro Di Girolamo [↗](#) (CERN-IT & ATLAS)
- Dave Dykstra [↗](#) (CMS, OSG), Chair
- Costin Grigoras [↗](#) (ALICE, added July 2014)
- Luis Linares [↗](#) (CMS)
- Stefan Roiser [↗](#) (CERN-IT & LHCb)
- Scott Teige [↗](#) (OSG, left August 2014)
- Andrea Valassi [↗](#) (CERN-IT)

All members can be contacted at [wlcg-ops-coord-tf-squidmon@cernNOSPAMPLEASE.ch](mailto:wlcg-ops-coord-tf-squidmon@cernNOSPAMPLEASE.ch)

## Task Overview

#	Task	Deadline	Progress	Affected VO	Affected Siites	Comment
1	Move MRTG to wlcg-squid-monitor	May 2013	100%	All	All	Done by Luis Linares
2	Move awstats to wlcg-squid-monitor	August 2014	100%	All	All	Done by Luis
3	Change frontier-awstats rpm to send to wlcg-squid-monitor	December 2014	100%	All	Launchpad	Done by Dave Dykstra
4	Update frontier-awstats on launchpads and backup proxies	October 2015	100%	All	Launchpad, backup proxies, and stratum 1s	Done by administrators.
5	Implement squid monitoring based on GOCDB/OIM	November 2014	100%	All	All	Done by Alastair Dewhurst
5b	Implement page for accessing removed MRTG plots	October 2019	100%	All	All	Done by Edita #65 <a href="#">↗</a>
6	Implement exceptions list for generating MRTG plots	February 2016	100%	All	some	Done by Alastair #56 <a href="#">↗</a> #57 <a href="#">↗</a>

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7	Implement mapping to CMS site names	October 2014	100%	CMS	All CMS	Done by Luis
8	Add generating CMS MRTG page	November 2019	100%	CMS	All CMS	To be done by Edita #58 <a href="#">↗</a>
9	Add generating ATLAS MRTG page	Novemer 2017	100%	ATLAS	All ATLAS	Done by Michal Svatos
10	Update ATLAS SSB to be based on new MRTG page	November 2017	100%	ATLAS	All ATLAS	Done by Michal Svatos #111 <a href="#">↗</a>
11	Implement generalized failover monitor	July 2014	100%	CMS	All CMS	By Luis, using CMS squid list
12	Convert failover monitor to use GOCDB/OIM squid organizations list	November 2019	100%	All	All	By Michal Svatos, add ATLAS & CVMFS #102 <a href="#">↗</a>
13	Implement SAM/SUM test based on failovers	September 2019	100%	All	All	Done by Edita #236 <a href="#">↗</a> , ATLAS might not want
14	Integrate MonALISA-based squid monitor	November 2014	100%	All	All	Done by Costin Grigoras with help from Luis & Dave
15	Implement exception list to convert monitor view to worker node view	September 2016	100%	All	All	Done by Dave
16	Disable CMS audit comparing MRTG config to SITECONF	November 2019	100%	CMS	All CMS	To be done by Edita

## Meetings

- 2012-10-04 Notes
- 2012-11-30 Notes
- 2012-12-14 Notes
- 2013-01-17 Notes
- 2013-02-01 Notes
- 2014-08-28 Notes

## Presentations

- Update for 2012-11-01 WLCG Operations Coordination meeting [↗](#)
- Update for 2012-12-06 WLCG Operations Coordination meeting [↗](#)
- Update for 2013-01-24 WLCG Operations Coordination meeting [↗](#)
- Update for 2013-02-07 WLCG Operations Coordination meeting [↗](#)

## Agreements

- Move MRTG and awstats squid monitoring from frontier.cern.ch [↗](#) to new pair of virtual machines more closely associated with WLCG
  - ◆ The machines will be a contribution from CMS and hosted in the vocms cluster
  - ◆ The public alias will be wlcg-squid-monitor.cern.ch
- Squid services will be registered in GOCDB & OIM, as publicly available round-robin DNS aliases if there is more than one squid implementing the same service. Sites may have multiple independent squid services registered. GOCDB & OIM will not distinguish between different purposes/applications for squid services.

- Additional information needed for squid monitoring beyond that stored in GOCDB & OIM will be maintained by per-VO operations personnel in per-VO files on the squid monitoring servers. These will be combined with the GOCDB & OIM information into another file as the input into a MRTG configurator, to allow ATLAS to possibly instead generate that file in the future from AGIS.
- A SAM/SUM test of Squid services will be set up, based on non-response to MRTG monitoring probes a few periods in a row. Those Squids for which SAM tests are required must be declared in GOCDB or OIM.
- An additional SAM/SUM test of Squid services will be set up based on hits to Frontier/CVMFS reverse-proxy Squids **not** going through the site's Squid services (also known as "failovers"), based on awstats on monitoring server
  - ◆ ATLAS operations is not currently planning to use this
- Integrate the ALICE MonALISA-based squid monitor including an optional host-based data collection rpm (see 2014-08-28 meeting notes)

## Questions

- Questions we asked and their answers are on the SquidMonitoringTaskForceQuestions page

## Proposals

- Squid configuration information proposal

## Production documentation

- Layout and Configuration of the Squid Monitoring Machines
- Instructions for registering Squids in GOCDB or OIM

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