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Squid monitoring tools - a common solution for LHC experiments.

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During the early running of the LHC, multiple collaborations began to include Squid caches in their distributed computing models. The two main use cases are: for remotely accessing conditions data via Frontier, which is used by ATLAS and CMS; and serving collaboration software via CVMFS, which is used by ATLAS, CMS, and LHCb, and is gaining traction with some non-LHC collaborations. As a result, Squid cache deployment across the grid has rapidly increased, with hundreds of Squids now in production. While some effort has been made between collaborations to share monitoring tools, this had been done on an ad-hoc basis, and it was found that some sites had duplicated monitoring, while others had no monitoring of their cache service at all. The WLCG Squid Monitoring Task Force was established to decide how to improve and better deploy Squid monitoring with WLCG common operations, and produce an architecture for a common Squid monitoring system configuration for use by all collaborations. In this paper, we present the recommendations produced by the Task Force, and the subsequent work necessary to implement them.

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