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Service Availability Monitoring framework based on commodity software

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The Worldwide LHC Computing Grid (WLCG) infrastructure continuously operates thousands of grid services scattered around hundreds of sites. Participating sites are organized in regions and support several virtual organizations, thus creating a very complex and heterogeneous environment. The Service Availability Monitoring (SAM) framework is responsible for the monitoring of this infrastructure.

SAM is a complete monitoring framework for grid services and grid operational tools. Its current implementation tailored for a decentralized operation replaces the old SAM system which is now being decommissioned from production. SAM provides functionality for submission of monitoring probes, gathering of probes results, processing of monitoring data, and retrieval of monitoring data in terms of service status, availability, and reliability.

In this paper we present the SAM framework. We motivate the need from moving from the old SAM to a new monitoring infrastructure deployed and managed in a distributed environment and explain how SAM exploits and builds on top of commodity software, such as Nagios and Apache ActiveMQ, to provide a reliable and scalable system. We also present the SAM architecture by highlighting the adopted technologies and how the different SAM components deliver a complete monitoring framework.

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