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## Update on WLCG/OSG perfSONAR Infrastructure

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WLCG relies on the network as a critical part of its infrastructure and therefore needs to guarantee effective network usage and prompt detection and resolution of any network issues, including connection failures, congestion and traffic routing. The WLCG Network and Transfer Metrics working group was established to ensure sites and experiments can better understand and fix networking issues. In addition, it aims to integrate and combine all network-related monitoring data collected by the WLCG infrastructure from both network and transfer systems. This has been facilitated by the already existing network of the perfSONAR instances that is being commissioned to operate in full production.

Recently, several higher level services were developed to help bring perfSONAR network to its full potential. This includes a Web-based mesh configuration system, which allows to centrally schedule and manage all the network tests performed by the instances; a network datastore (esmond), which collects, stores and provides interfaces to access all the network monitoring information from a single place as well as perfSONAR infrastructure monitoring, which ensures that the current perfSONAR instances are configured and operated correctly.

In this presentation we will provide an update on the status of perfSONAR in WLCG and OSG as well as highlight the future plans for the commissioning and production operations of the perfSONAR in the scope of the WLCG Network and Transfer Metrics working group. We will also present details on the specific higher level services and provide a summary of the current status of the pilot projects to integrate network and transfer metrics.

### Summary

An overview of perfSONAR status and plans in WLCG and OSG.

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