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WLCG/OSG Networking Update

Tuesday 25 April 2017 14:30 (25 minutes)

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 OSG Networking Area is a partner of the WLCG effort and is focused on being the primary source of networking information for its partners and constituents.

The WLCG Throughput 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 OSG/WLCG infrastructure from both network and transfer systems. This has been facilitated by the already existing network of the perfSONAR instances that have been commissioned to operate in full production.

We will cover the updates to a few higher level services that were developed to help bring perfSONAR network to its full potential. This includes a new web-based mesh configuration system, which allows to centrally schedule and manage all the network tests performed by the instances; updates and changes to our 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 based upon Experiments Testing Framework (ETF), which ensures that the current perfSONAR instances are configured and operated correctly.

In this presentation we will provide an update on how to use and benefit from perfSONAR, including information on changes that are included in the recent
release of version 4.0 of the Toolkit. We will also cover the status of our WLCG/OSG deployment and provide some information on our future plans

Length of talk (minutes)

20

Scheduling constraints / preferences

Not Wednesday afternoon

Authors: MC KEE, Shawn (University of Michigan (US)); BABIK, Marian (CERN)

Presenter: MC KEE, Shawn (University of Michigan (US))

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