

Background

- As an international distributed high throughput computing facility the OSG and its stakeholders are highly dependent on the underlying network infrastructure
- With this in mind the OSG set out to provide an operational service that would gather, organize and supply network metrics to the resource users and administrators to assure effective network usage
- In 2012 OSG added a Networking Area to track and support network issues affecting our stakeholders and peering infrastructures
- In late 2015 the internal Data Store, Custom Mesh, Visualization Components, and external perfSONAR clients operational infrastructure was made production by the OSG Network and OSG Operations Groups
- This is the story of that service...

Highlights of the OSG Network Datastore

- To gather, in a single service, all network metrics from OSG and connected projects (WLCG)
- To provide reliable organization of these metrics in a publically accessible format
- To allow custom visualization of metrics from network subsets (unique meshes)
- To publish the gathered metrics to interested collaborators for network support and research projects
- To provide alert and alarm mechanisms to allow quick info gathering and resolution of network related issues (leveraging PuNDIT)
- **NOTE:** While we heavily lean on a large number of perfSONAR clients to gather this information, this presentation will focus on the data collection, storage, and presentation, not on the perfSONAR clients themselves