

perfSONAR taskforce update

GLIF meeting

Salt Lake City

Feb 3, 2010

Agenda

- Timeline
- Objective
- Past activities
- Future activities

Timeline

- January 2008: winter meeting – taskforce established.
 - The first task was to perform demos at the 8th Global LambdaGrid workshop.
- September 2008: 8th Global LambdaGrid workshop
 - Performed a successful demo.
 - Proposed to continue the taskforce activities.
- March 2009: winter meeting
 - Proposed enhancements and demos at the 9th Global LambdaGrid workshop.
- October 2009: 9th Global LambdaGrid workshop
 - Demonstrated the new enhancement.
- February 2010: Today update

Objective

- To address the on-going monitoring challenges of the end-to-end lightpath.
- To evaluate perfSONAR as a multi-domain lightpath monitoring tool.
- To demonstrate the usability and functionality of perfSONAR.
- To deploy perfSONAR as a production services.

Current E2EMon link-status monitoring implementation

- Current implementation - perfSONAR-PS link-status service
- The only web client – E2EMon web client
 - Closely tie to the LHCOPN monitoring
- End-to-end lightpath configuration specifies segment and neighboring information
- Semi-structured naming
 - Make it hard to adapt global_id naming standard
- Showing a simple-structured view of end-to-end lightpath
- Provide a simple up/down link status
- Enhancement of linking a link status to an external URL
 - Performance metric, ticket information, MRTG, etc..

perfSONAR circuit monitoring development

- Proposed new monitoring architecture
 - <http://code.google.com/p/perfsonar-ps/wiki/CircuitMonitoringOverview>
 - <http://code.google.com/p/perfsonar-ps/wiki/CircuitMonitoringArchitecture>
 - <http://code.google.com/p/perfsonar-ps/wiki/CircuitMonitoring>
- The new proposal will be discussed with various perfSONAR research groups to agree on the new approach.

Past activities

- There wasn't much happening for the last couple of months.
- Does perfSONAR a right tool for the GLIF community?
- A conference call was organized last week:
 - perfSONAR?
 - proposed architecture
 - hash out the next steps
 - potential demo activities with other taskforces

Conference call update

- perfSONAR is a start and the only one that:
 - has distributed architecture and
 - would best fit the GLIF community.
- The proposed architecture would address some of the limitation of the current system.
 - Topology services
 - Static and Dynamic circuit configuration.
- Developers plan to bring the new proposal up with various perfSONAR development groups.
 - The new proposal has to be adopted.
 - The development process would take some time to implement
 - The taskforce would wait for the results before planning our tasks
- To start: perfSONAR taskforce
 - reviews the proposed architecture in the operation point of view and
 - makes recommendations and suggestions to developers.
- A potential collaborative demo with another taskforce has been brought up – Monitoring Dynamic circuit using perfSONAR.

Future activities

- Monitor closely the development of the proposed architecture
- Continue the deployment of the current system
 - Fine tune the alarms collection process
- Document the naming scheme
- Develop new web client???
- Potential demo opportunity with other taskforce demos at the 10th LambdaGrid workshop