



Closing of GLIF Winter 2011 meeting

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Yesterday's Talks

- Campus networking Task Force -Ronald van der Pol (SARA)
 - Shared results of survey taken by several in the community (still awaiting more responses)
 - Agreed to get more involvement from campus network engineer (usually do not attend GLIF) – target as remote speakers



Yesterday's Talks

- Terena E2E provisioning workshop series - Peter Szegedi (TERENA)
 - Interesting insights from three E2E workshops
 - Several other workshops are taking place at different locations around the world – Peter would like to bring many of these participants for one large workshop as possibly part of GLIF...



Yesterday's Talks

- E2E service architecture verification - Jerry Sobieski (NORDUnet)
 - We need to develop an E2E service architecture
 - Must coordinate closely with NSI working group
 - Policy will be the most difficult aspect of the service to verify
 - Agreed to plan for a new task force and will be presented in Rio



Yesterday's Talks

- GOLE Governance Task Force discussion - Bill St. Arnaud (SURFnet)
 - Agreed that GOLEs are lacking proper guidelines for interoperability today
 - This task force will NOT be used to oversee GOLE operations, but rather for preparing high level guidelines for the GOLE community
 - Bill will have another meeting at I2SMM and report take away at the Rio meeting.
 - In Rio the community will decide on the task force



Successful Demonstration

- **GLIF Demonstrations - Automated-GOLE Pilot project activities**
 - Next generation Pinger over Fenius control plane
 - Topology specification and distribution within the Automated GOLE environment targeted for SC 2011
 - A few of the APAN attendees came to the Demo !
 - TF will write end-to-end service architecture document for Rio



Today's Talks

- **OpenDRAC update** - John MacAuley (SURFnet)
 - Open Source Status –
 - now running on CzechLight, CERNLight and soon KISTI
 - Updated simulation code
 - DRAC external interfaces
 - Start build NSI interface
 - Built a CLI and Java App (automation tool to help users)



Today's Talks

- **OGF NSI-WG update** - Inder Monga (ESnet)
 - Updated us on the accomplishments of the team over the last several months – which is a great deal!
 - Some questions on the “release command” vs. “un-reserve”
 - State machines were presented as well as a few concepts such as Service Termination Point, and error handling
 - Next steps – need task force for NSI reference implementation by GLIF meeting in Rio



Today's Talks

- **Update on Generic Network Interface Specifications (GNI-API) Task Force and Fenius** - Evangelos Chaniotakis (ESnet)
 - Successfully completed the GNI-API – Great work Evangelos and team!
 - Lessons learned document for Rio!
 - GNI API TF will officially close in Rio
 - Fenius will continue to be used for the NSI implementation
 - Maintain some key software
 - Implement NSI protocol
 - Need more developers from the community volunteering
 - Break down Fenius architecture for discussion in Rio



NSI Implementation

- **NSI implementation and demonstration** - open discussion, chaired by Gigi Karmous-Edwards (NCSU)

Rough Time Lines and GOALS for NSI Implementation

- **3/30/2011 Draft version 1 of NSI specification**
- **9/13/2011 GLIF RIO deliverables**
 - Service architecture document – Dynamic GOLE TF
 - NSI implementation of the following calls from RA to PA for services for connection between A to B:
 - 1)reserve, 2) provision, 3) query, 4) cancel
 - Dynamic GOLE TF will have an end-to-end service architecture document.
- May have a real usecase for the demo with CESnet (video) , etc.



Today's Talks

11/12/2011 SC 2011

- Add the following services to the demonstration:
 - Focus only on Ethernet VLAN services
 - End-to-end independent verification

01/22/2012 GLIF Winter in Baton Rouge

- Post mortem on development of SC 2012 demonstration.

03/30/2012 Final OGF Specification v. 1.0 completed

06/30/2012 NSI end-to-end services ver. 1 code complete

- massive beta testing



NSI Implementation

******End of 2012 Service******

Features ready for use by the community requesting a path from A to B :

- **Ethernet VLAN services**
- **Policing**
- **Performance**
- **Scheduling**
- **Independent end-to-end data plane checking**
- **Fully automated authorization and access**
- **Fully automated path request and service**



Today's Talks

- **Introduction to LHC Open Network Environment (LHCONE)** - Artur Barczyk (USLHCnet)
- Experiments are changing data models to T2 to any-T1 & T2-T2 data flows
- LHCONE designed to offload general R&E Networks
- LHCONE is designed as the companion to LHCOPN
- Dedicated to T1 – T2 – T3 data flows
- Open design, other science disciplines could also created their Open Network Environments



Today's Talks

- **Distributed Topology Exchange Task Force** - Jeroen van der Ham (UvA)
- Jeroen will provide a tool for topology editing ... he will send the url for the tool on the mailing list
- In two weeks there will be a DTOX TF conf call and a timeline for collecting all simplified GOLE topology will be agreed to



Today's Talks

- **Resource Allocation Task Force** - Gigi Karmous-Edwards (NCSU)
- Ask GLIF Application working group if they could create a task force



Today's Talks

- **Showcase: Troubleshooting connectivity problems with 802.1ag by end-users - Ronald van der Pol (SARA)**



Thank You!
Safe travels back home!

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