Winter GLIF Tech 2014 Wrap-Up

Atlanta, 20 March 2014

- Global Lambda Integrated Facility
  - It's not a network
  - It's not really a facility
  - It's all about ideas, sharing, and participation
  - It's all about personal networking
  - It's all about having consensus on an architecture for research networking
  - It's all about enabling important things to happen

- NSI2.0 Update
  - the standard is out there
- AutoGOLE TF
  - There's a clear workplan for 2014
  - Topology exchange demos
- Performance Verification TF
  - Discussed architecture & automated diagnostics
  - Roadmap for PerfSONAR
  - Proposal for trial w/PerfSONAR-enabled GOLEs
- SDN TF
  - Presentation of (single-domain) SDN efforts Esnet, Internet2, SURFnet
  - Discussion of multi-domain issues
  - Suggestion of GLIF effort in creating multi-network SDN testbed. SDN-enabled GOLEs?

- GLIF Architecture TF
  - Discussion of near- and long-term objectives of GLIF architecture work.
  - What do we want to achieve together in GLIF? Deploy, Operate, Experiment, Develop, or something else?
  - How to update GOLE definitions from what it was 10 years ago
  - Focus on GOLEs, networks, service abstractions, applications?
- Network Virtualization
  - Presentation of (different) approaches in Internet2, GÉANT.
  - Discussion of how GLIF can contribute
  - Suggestion that GLIF help define a standard way to ask for resources across testbeds, w/uniform service definition.

- NSI Implementation
  - Presentation of Authorization implementation in SURFnet, RPN
  - Extensive discussion of authentication implementations
  - Hands-on discussion and comparison of approaches to NSI CS 2.0 implementation and related issues by groups actively implementing NSI-based BoD services

The Big Picture

- Much to do – and plenty of ideas in the room for how GLIF TECH can contribute
  - SDN Taskforce – Global SDN-GOLE fabric
  - Performance Verification Taskforce
  - Production PerfSONAR taskforce
  - GLIF Architecture Taskforce & GNA
  - OLE Operator coordination
- However, we must be clear on
  - How we do this – together
  - How we create actionable workplans that we will result in work between meetings
- There's great stuff being done
  - NSI implementation
  - AutoGOLE
  - … and I hope we can replicate that in other areas

Actions

- Initiate Global PerfSONAR Production activity
- Investigate option for GLIF SDN Testbed interconnection activity
- Continue discussion of network virtualization approaches; investigate trial for global resource request broker
- Re-activate GLIF Operator Forum – probably with monthly calls
- Clarify relation between GLIF TECH and Global Network Architectures
- Clarify workplan for GLIF Architecture Taskforce

Farewell

- Thanks to GENI for hosting us
- Thanks to all of you for being active contributors

- See you next time
  - Queenstown, New Zealand
  - 29 September – 1 October 2014