



October 27th 2009, GLIF 2009

Eric Boyd, Deputy Technology Officer

MAN LAN Update

MAN LAN Management

- MAN LAN is now being managed by Dale Finkelson (dmf@internet2.edu).
 - Christian Todorov has taken on other responsibilities within Internet2.
 - Heather Boyles has resigned from Internet2.
- This transition mainly took place during summer / fall 2009.

MAN LAN IP Changes

- Connectivity Changes
 - Qatar Foundation changed provider and now is connected at GigE.
 - MIT is connected at 10Gig.
 - NLR has at least one new 10G connection to Europe.
- Bandwidth Changes
 - Planning to migrate to support 100 Gbps, as funding becomes available

MAN LAN Support for Advanced Cyberinfrastructure

- Internet2 has introduced ION service across backbone, enabling automatic provisioning of circuits
 - Uses IDC infrastructure
- Internet2 ION service and ESnet Science Data Network are capable of peering with other IDCs at MAN LAN
- MAN LAN supports E2EMON monitoring of static circuits using perfSONAR
- Planned: MAN LAN will support automatic monitoring of dynamic circuits, as is currently supported for ION service
- Planned: Internet2 and its partners will support open source software for implementing perfSONAR and IDCs on dynamic GOLEs
- Ongoing: Internet2 will contribute to and follow lead of GLIF and OGF in defining advanced cyberinfrastructure protocols:
 - Network Measurement
 - Information Services (Discovery and Topology)
 - Performance Monitoring
 - Automatic Provisioning of Circuits

Advanced Cyberinfrastructure Software Development

- ION Service
 - Open source software includes OSCARS and DRAGON
 - OSCARS developed in partnership with ESnet
 - DRAGON developed in partnership with MAX, USC ISI East, and George Mason University
 - <http://iondemo.net.internet2.edu>
- perfSONAR
 - Open source software based on perfSONAR-ps
 - Developed in partnership with ESnet, FNAL, PSC, SLAC, UDel
 - <http://psps.perfsonar.net/>



MAN LAN Update

October 8th 2009, Internet2 Fall Member Meeting
Eric Boyd, Deputy Technology Officer

For more information, visit www.internet2.edu