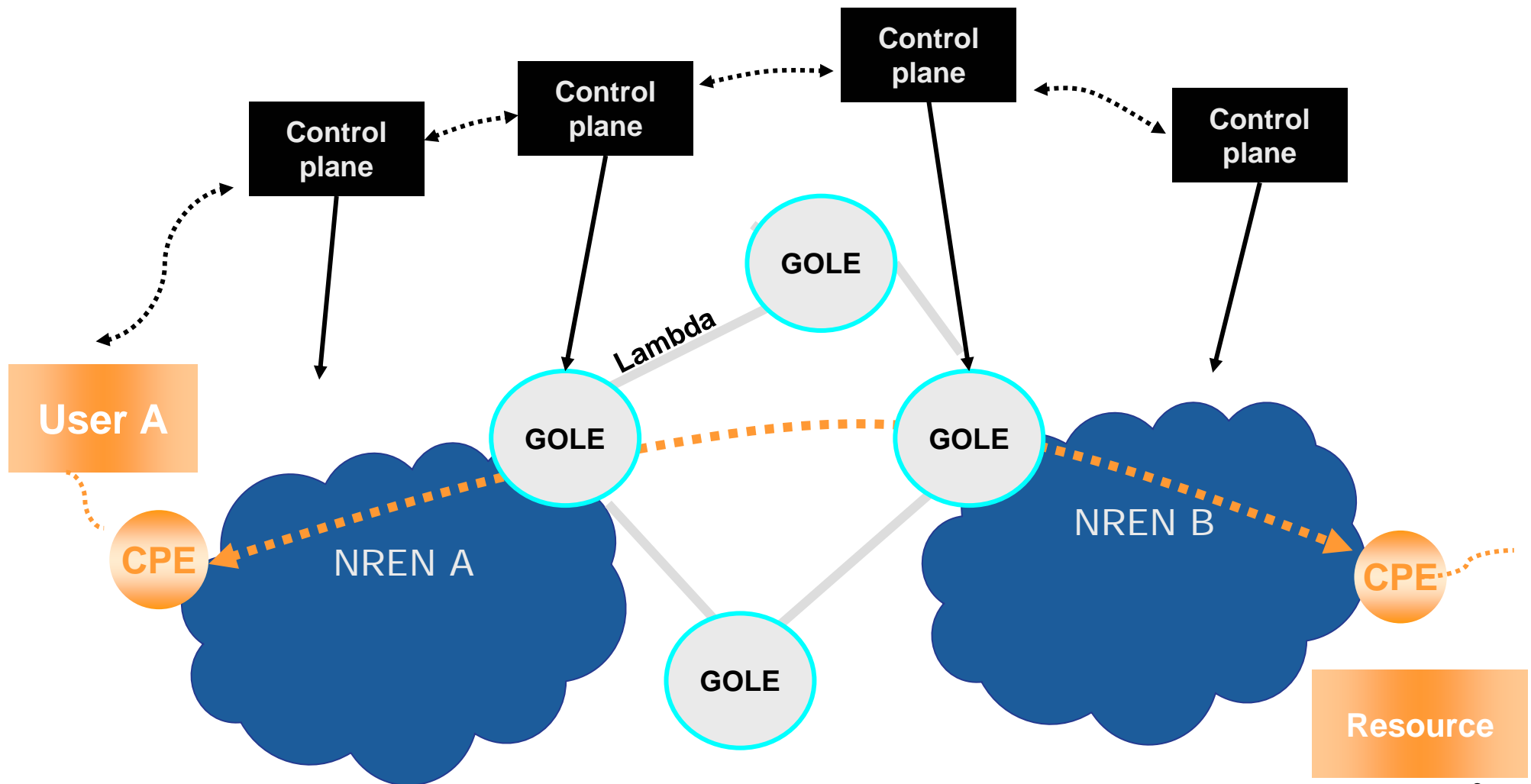




Report from the GLIF Technical
Resource Management and Control
Planes
Working Group

Seattle, WA, USA, October 1&2, 2008

The GLIF approach to lambda networking





Resource Updates

- Updates from: AARNet, CANARIE, CzechLight, KRLight, MAN LAN, NetherLight, TaiwanLight, Pacific Wave, USLHCNet, MAX



Tech & Ctrl Task Forces

- GNI Specifications TF
- Service Levels TF
- Global Identifier TF
- PerfSONAR usage TF
- Control Plane Security TF



GNI Specifications TF

- Led by: Evangelos Chaniotakis
- Accomplished:
 - Produce a document that compares existing generic network interfaces and identify common denominators
 - Produced a strawman GNI
 - Identified a group of GLIF participants that plan to jointly work on an implementation
- Agreed that TF will continue



Service Levels TF

- Led by: Walter van Dijk
- Service Level Specification document for GOLEs
- Draft version available
- Agreed to:
 - Bring it to mailinglist
 - Input to new GOLE Services TF and dissolve TF



Global Identifier TF

- Led by: Ronald van der Pol
- Overview of various systems in use
- Strawman proposal to use URN naming scheme, according to RFC2141
- Lots of discussion, to be continued on mailing list
- Work towards proposal for next meeting (Winter)



PerfSONAR usage TF

- Led by: Thomas Tam
- Prepared and ran an excellent demo!
- Agreed to continue work on integrating PerfSONAR into processes for managing hybrid infrastructure



Control Plane Security TF

- Led by: Mathieu Lemay
- Focus on security of control planes
- Initial discussion
- Will continue on mailing list



OGF NSI Update

- Two BoF meetings at OGF23 in Barcelona:
 - Standardise network control plane
 - Standardise call to the network for services
- Efforts merged and one group formed:
 - Network Service Interface (NSI) Working Group
- Facilitates operation between domain
- Open definition for control plane interworking



MAX: VLAN scheme proposal

- Reserve a VLAN range, to ensure less conflicts in agreeing on VLANs
- Proposal: VLAN IDs 451-500
- Already agreed upon by Awave, StarLight and NetherLight, not feasible for all
- Document on the website



PBB, 802.1ah in NetherLight

- Sharing of experience: Using Ethernet as a transport layer
- Current services include:
 - IEEE802.1Q tagged and untagged
 - Limited by 4095 VLAN Ids
- Two alternatives:
 - QinQ, 802.1ad -> Not usable for a GOLE
 - PBB, 802.1ah -> Scalable



New TF: GOLE Service

- Goal: Define services to be delivered by GOLE
- Five volunteers already
- Two focus areas, more to come:
 - input from SLA TF
 - dynamic services on a GOLE
- Will produce document outlining topics to work on before next meeting

Next Meeting

- Winter meeting 2009 as principle agreed
- Two options:
 - Co-locate with Joint Techs in Texas in February
 - Co-locate with OGF in Italy in March
- Show of hands directs towards OGF
- Will come up with proposal for decision later this month