



IX Panel Update

February 10, 2004

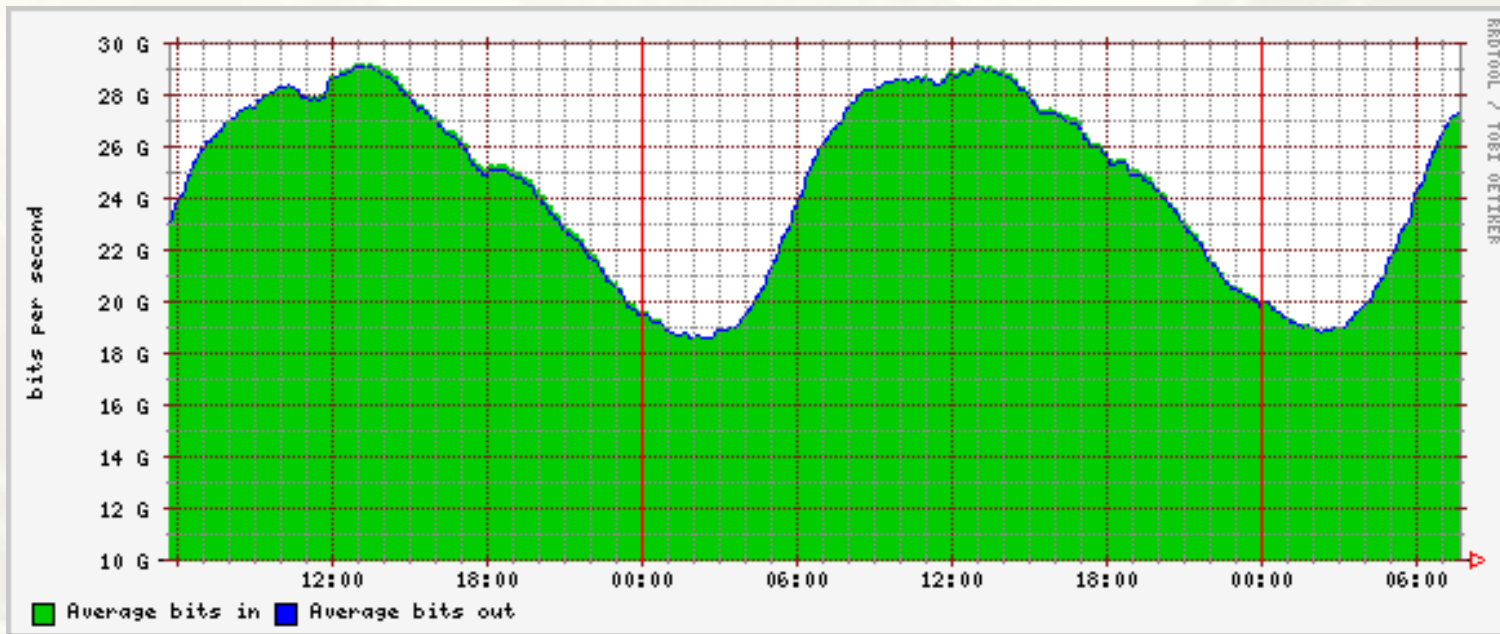
Jay Adelson, Founder, CTO

Lane Patterson, Director, R&D

Current Locations

- Ashburn, VA (C)
 - Ashburn, VA (F)
 - Newark, NJ
 - Secaucus, NJ
 - Chicago, IL
 - Dallas, TX
 - Los Angeles, CA (LAX)
 - Los Angeles, CA (LAP aka LA2)
 - San Jose, CA
 - Santa Clara, CA
 - Honolulu, HI
 - Sydney, Australia
 - Tokyo, Japan
 - Hong Kong
 - Singapore
- All locations offer GigE Exchange switch services
 - Los Angeles and Newark offer metro cross-connect and metro-switch services
 - All locations offer neutral colocation packages
 - ED currently available only in San Jose and Ashburn, releases in other locations pending

- 271 ports have been allocated to 123 of the over 600 Equinix customers.



- Aggregate has exceeded 30gig, over 400% growth since the last IX panel.

- **A *FREE* Service (Available in San Jose and Ashburn, others on request)**
- **Broad inquiries from providers large and small still outpace participation:**
 - *Still shows high IPv6 interest, but minimal commitment*
- **Participants include NTT/Verio, Hurricane Electric, Tiscali, Japan Telecom, PoweredCom, Layer42, Rob Seastrom**
- **New additions:**
 - *ESNet (IPv6 R&E/expertise perspective)*
 - *Apple (content peering on IPv6!)*
- **Reality Check: Population and traffic levels still pretty small**
- **Contact: lane@equinix.com or peering@equinix.com to get connected**

- **Multiple 10GigE Trunks in Production since 2H2003 on legacy switches**
- **Evaluation of Next-Gen 10GigE switches underway:**
 - *Formal RFI issued Dec 2003*
 - *Lab Testing through Spring 2004*
 - *Production Trial and Deployment 2H04*
- **Don't Forget Link-Aggregated GigE**
 - *Already works great today -- load balancing is granular*
 - *Good interim step toward 10GigE router ports*
- **10GigE Exchange Ports: Let us know your plans!**
 - *We have room for a couple more early testers*
 - *Productized 2H04*

10GigE Switch Comments

- **Beyond Speeds and Feeds: *What We Like/Want***
 - **Vastly improved switch architectures**
 - *Less enterprise, more carrier class*
 - *Full ingress and egress feature path*
 - **Improved densities: 4x10GigE/slot, 40-60 GigE/slot**
 - **Modular operating software**
 - **More features at line rate, and in combination**
 - **Robust control plane failover, and separation from data plane**
 - *reboot/fail over/upgrade control plane w/o interrupting data plane forwarding*
 - **Better layer 2 topology control (beyond spanning tree) and MAC security (driven by the MetroE market; very helpful to IXes :-)**
 - **Lots and lots of statistics: flexible counters, SFLOW**

- Shepfarm Multicast Router now on the Equinix San Jose Multicast Exchange
 - *Thank you Dorian for the unicast transit*
- What is it?
 - Multicast aggregation router:
 - *~5000 multicast routes through AS3948*
 - Kind of an “updated” MBONE: pim, msdp, mbgp
 - Free multicast transit and peering
 - Practical approach: native or tunneled.
- Contact
 - www.shepfarm.com/multicast
 - peering@shepfarm.com