

# RIPE 47 EIX WG Update

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## Recent Developments

- Frankfurt build underway
- Frankfurt and Amsterdam in service end Q2
- Significant traffic growth
- London 10Gb/s upgrade ordered
- Now 140 customers
- Public peering interconnect with LoNAP proving popular

# Locations

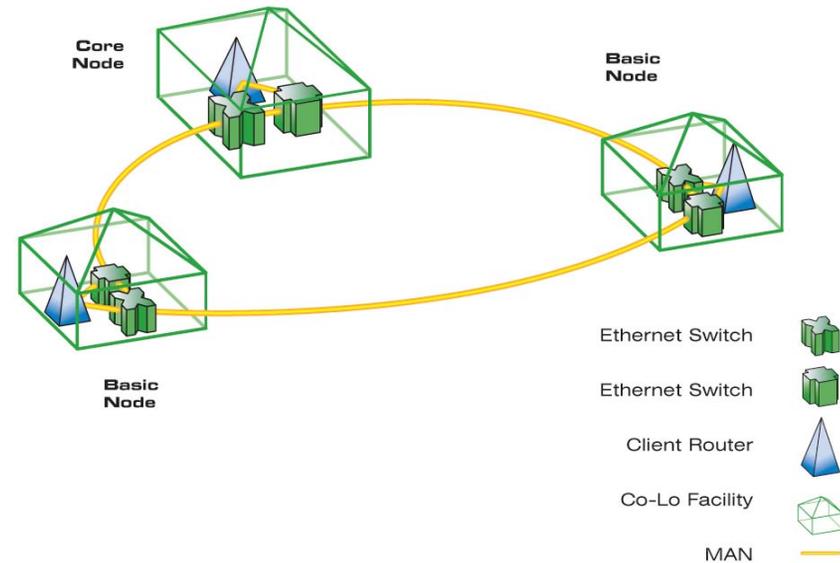
- London
  - Redbus Interhouse: 3 sites
  - Telehouse: 2 sites
  - Global Switch: 1 site
  - TeleCity: 1 site
- Amsterdam
  - NIKHEF: March 04
  - 2 more sites later in 04
- Hamburg
  - Telehouse
- Frankfurt:
  - Redbus Interhouse: Feb 04
  - IX Europe: Feb 04
  - 1 more site: to be confirmed

Connections **within**, not between, each metro area

# Frankfurt Deployment



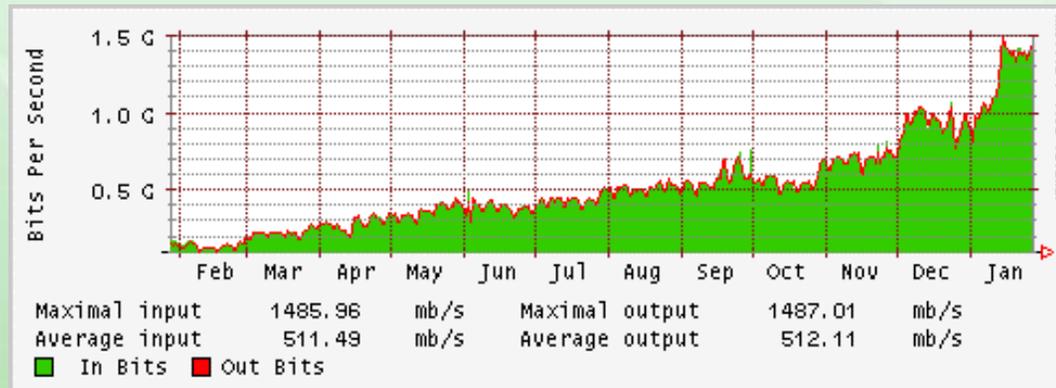
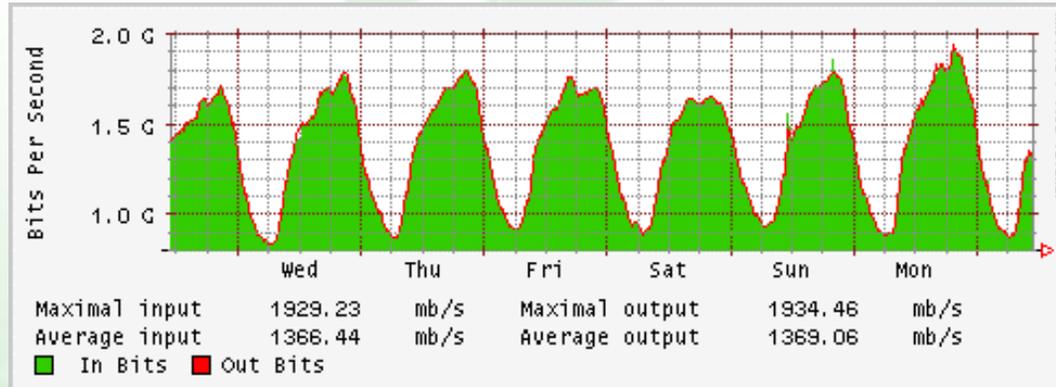
XchangePoint Architecture - Frankfurt



- 2 Foundry BigIron 8000s (JetCore silicon) per site
- 802.1w spanning tree for rapid convergence
- Native 1Gb/s dark fibre between sites
  - Upgrades to 10Gb/s and/or DWDM possible as traffic grows

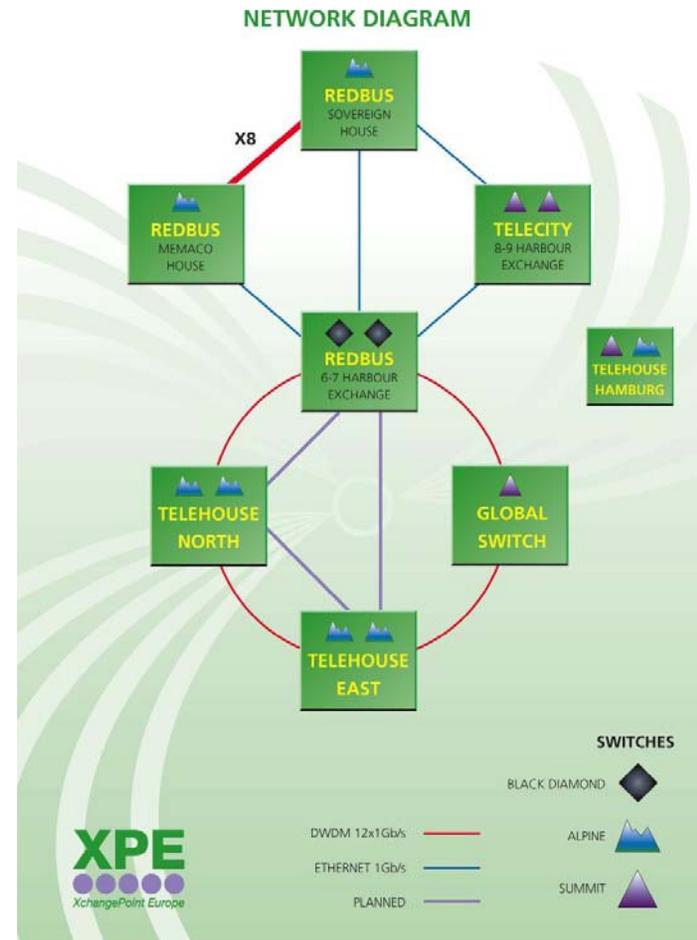
# London Traffic Growth

- Ethernet switched traffic peaking at nearly 2Gb/s
- Another 2.5-3Gb/s estimated DWDM private-interconnect traffic
- Traffic at least doubling every 4 months



# London 10Gb/s Upgrade

- Upgrading existing Extreme Alpine and Black Diamond switches to BD 6808 MSM-3 10Gb/s configuration
- Initial deployment 3 sites:
  - Telehouse North & East
  - Redbus Harbour Exchange
- Will use new triangle of dedicated dark fibre:
  - 10Gb/s DWDM is not cost-justified
  - Existing DWDM will support other sites and customer private interconnects
- Considering additional router-only public peering VLAN



# LoNAP Interconnect

- See:
  - <http://www.xchangepoint.net/ourpartners/LoNAP-XP-icconnect.html>
- Shared public interconnect:
  - Introduced at time of last RIPE meeting
  - 195.47.243/24, VLAN 550
  - About 30Mb/s traffic
  - 34 XPE customers, 7 LoNAP members
- Point-to-point private VLANs:
  - About 6Mb/s traffic
  - 12 XPE customers, 8 LoNAP members, 28 VLANs
  - Not much growth since public interconnect introduced
- Have created some simple web pages to document participation
- We would like to do similar agreements in other cities

## Contact Details

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### Presentation:

- <http://www.xchangepoint.net/info/ripe47-eix.pdf>