LINX Update

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UKNOF 2

Status

- Just going to do an incremental update…
- Steady member growth
  - 186 versus 173 at UKNOF 1
- Some jumps in traffic growth
  - Shipping almost 65G on the switched networks
- Uptake of 10G ports
- Some interesting engineering projects

Network Upgrade

- About to embark on upgrade of Extreme platform
- BlackDiamond 6800 technology now 6 years old
  - Despite incremental upgrades
  - Simply running out of bandwidth and ports
- Need to offer 10G ports to members
- Need to increase GigE port density per system
- Need to be able to increase ring bandwidth

Network Upgrade (2)

- What are we replacing it with?
- Watch this space…

Vendor ?

Network Upgrade (3)

- Plan to upgrade all boxes on Extreme platform during next 18 months
- Two largest sites by Jan 2006
  - Telehouse North & East
- Remaining sites gradually through 2006
- Maybe some interesting migration challenges

Other Engineering Projects

- Collecting and presenting Sflow stats
- Enabling port security on all edge ports
  - Should prevent storms and issues caused by:
    - Remote loopbacks
    - Configuration errors
    - Faulty equipment
  - Will probably choose to restrict rather than shutdown

Multicast

- Interest revived in multicast
  - BBC plans for increased internet distribution
  - Multicast workshop held at LINX 50
- ISC has taken "ownership" of Greg Shepherd's multicast interconnect project
  - Trying to link multicast "islands"
  - ISC admitted into LINX associate membership
  - Sponsored ports and rackspace

Things to watch for 2006

- 10G port growth
  - Will you fill your boxes quickly?
  - Will you blow your interconnects up?
- Multicast growth
  - How does your architecture do multicast replication?
  - Hardware flooding?
  - Containment (e.g. PIM snooping, separate VLANs)?
  - Dangers of flooding smaller ports if someone pumps in a lot of multicast traffic

Questions?