CERN Internet Exchange Point Update

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EIX wg

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CIXP - Structure

CIXP has two location both in Geneva: one in the CERN computer centre (FR-CH border), the other in the Telehouse datacentre (city centre).

The two sites are connected at 2 Gbps
Distributed VLAN being deployed

Six main fibre conduits:
Swisscom, France Telecom, COLT, SIG, LDCOM, Intelcom.
Several fibre providers on these cables

Exchange services: IP, telecom, fibre

CIXP - VLANs

Since January 2000 Telehouse & CERN operate as a single IXP for all the ISPs connected to the Public Exchange Point.

VLAN services: a single virtual roof for ISPs installed at CERN and/or Telehouse

Tests are in progress. Availability planned for this autumn.

CIXP VLANs

- Constructive support of regional Internet community

- Response to emerging requirements of members

- Leading demands for rack space outside CERN

- POP/hosting distribution in the urban area

- Getting ready for surge of traffic in the future

Who is at CIXP (IP exchange)

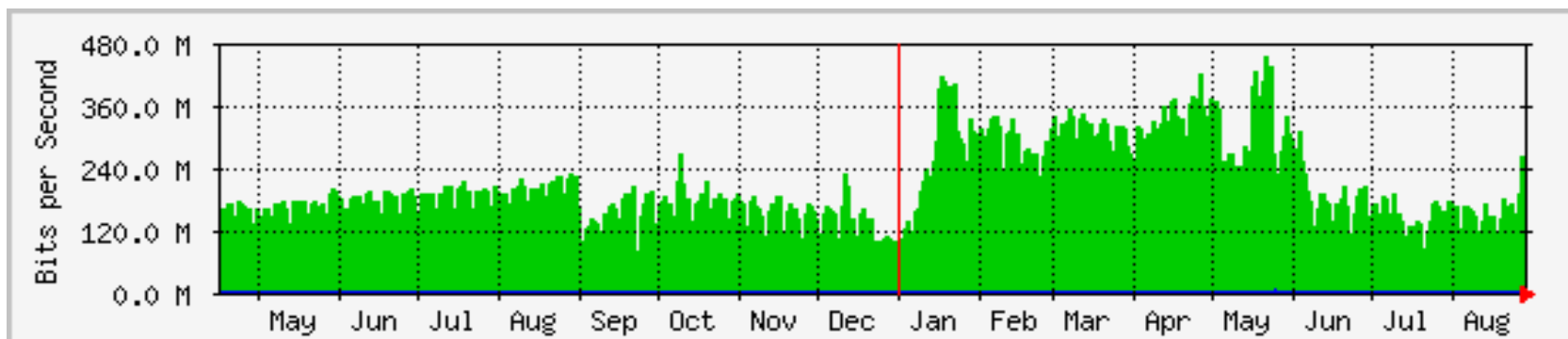Telecom industry crisis consequences: membership has shrunk, now stable.

Current member list:
CERN, SWITCH, IN2P3, DTag, VIA NET.WORKS, IP-plus, GlobalONE, Infonet, Sunrise, AT&T , Cable and Wireless, Carrier1, PSInet, Deckpoint, OpenTransit, VTX, NWC, Ision, COLT, Cablecom, UUNET, IS-production, Internext, Onspirix-ch, Easynet, DFI Services SA, Nexlink.

Trends

- Growth in WDM equipment usage by telecom operators

- Growth of demands for back-to-back peerings and cabling

- Fewer members, but more equipment

- Steady traffic:

Latest

- More gigabit Ethernet capacity allocated in 2002

- New Cisco 6500 has been ordered

- IPv6 and Multicast testbeds

- New NTP service available (not yet advertised)

- Redesign of the WWW site is ongoing

- 10Gigabit ethernet tests planned

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