Major IXes in Japan

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☆ NSPIXP-2 in Tokyo: 1 bldg, dual stack
  • 69 AS (56 GbE and 30 FE)
    ─ +12 FE for IPv6 (1 IPv6 only)
  • 2 foundry switches connected by a 10GE
    ─ 4 GbE trunk as backup, by STP
  • Inbound traffic: 12 to 6 Gbps

☆ NSPIXP-3 in Osaka: IPv4 only
  • 24 ISPs (4 GbE and 21 FE)
  • 3 bldgs connected by 2 10GE and 1 GbE, by RSTP
  • Inbound traffic: 0.5 to 0.3 Gbps
NSPIXP-6, Distributed NSPIXP-2

☆ NSPIXP-6 in Tokyo and Osaka: IPv6 only
  • 2001:200:0:1800::/64 (part of WIDE sTLA)
  • 47 ISPs (1 GbE and 47 FE)
  • Inbound traffic: 0.1 to 0.2 Gbps

☆ Distributed NSPIXP-2
  • L2 extension of NSPIXP-2
  • 5 new bldgs in Tokyo
  • Links: DF or WDM
    – 10GE or 802.3ad aggregated 4 GbE
  • Primary and Backup switches/links
    – Resiliency by RSTP
  • Currently in beta testing
    – Not yet connected to NSPIXP-2
☆ **Tokyo: IPv4 only**
  - 6 bldgs in Tokyo and 1 bldg in Nagoya
    - Interconnected by 2-4 GbE links
  - 104 ISPs (GbE, FE, or FDDI)
    - 60% are connected by GbE
  - Inbound traffic: 20 to 10 Gbps

☆ **Experimental IPv6 in Tokyo**
  - 2001:07FA::/64 (micro allocation)
  - 11 ISPs, 11 FE
JPNAP

☆ JPNAP Tokyo: 2 bldgs, IPv4 only
  • Available ports: FE, GbE, 10GE
  • 27 ISPs
  • Inbound traffic: 12.6 to 5.5 Gbps

☆ JPNAP Osaka: 2 bldgs, IPv4 only
  • Available ports: FE and GbE
  • 9 ISPs
  • Inbound traffic: 0.7 to 0.4 5Gbps

☆ JPNAP6: 2 bldgs in Tokyo, IPv6 only
  • Available ports: FE
  • 2001:07FA:0:3::/64 (micro allocation)
  • 8 ISPs
Summary

- Traffic grows in all IXes
  - ADSL/Cable/Fiber access getting common
- NSPIXP/JPIX/JPNAP
  - competition and collaboration
- NSPIXP-2
  - http://nspixp.sfc.wide.ad.jp/
- NSPIXP-6
- JPIX
  - http://www.jpix.ad.jp/
- JPNAP
  - http://www.mfeed.ad.jp/