

DIX-IE

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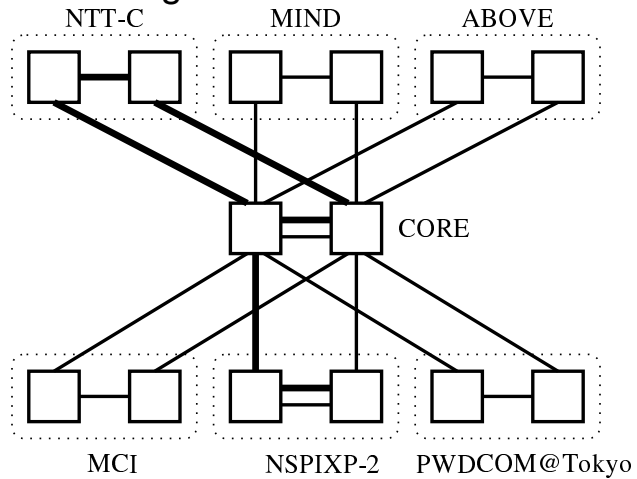
DIX-IE

- ☆ **NSPIXP-2 renamed to "DIX-IE"**
 - Distributed IX in EDO
- ☆ **Layer-2 extension of NSPIXP-2**
 - Project planning started in Aug 2000
 - Initial equipment installed in Mar 2001
 - Takes years to obtain stability
 - 802.3ad and 802.1w
- ☆ **Launched in May 2003 (finally!)**
 - Some ISPs peers since early 2003
 - as ISP sacrifices

DIX-IE

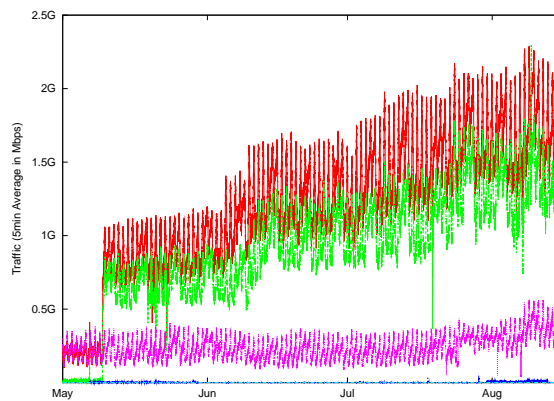
☆ NSPIXP-2 + 5 remote branches

- Links: 2GbE, 4GbE, or 10GE
- Redundant Configuration

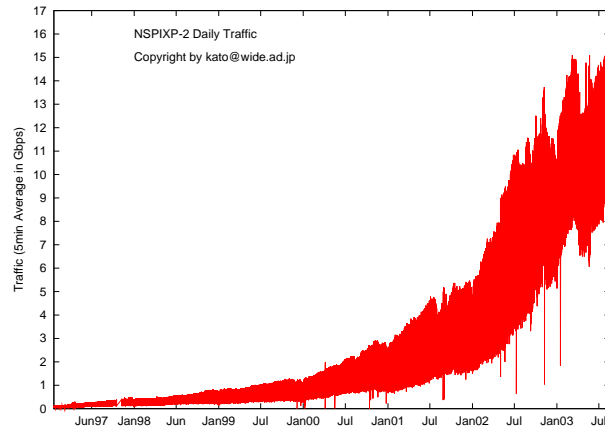


Inbound Traffic from Each Site

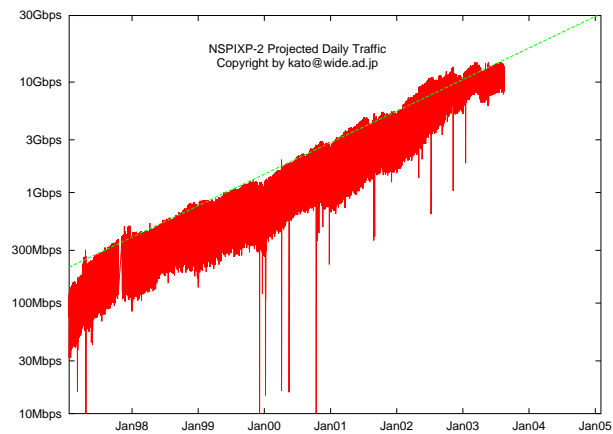
☆ Measured at the primary core switch



Total Inbound Traffic



Total Inbound Traffic



Remote Access via MPLS

- ☆ **We don't like to extend IX at L2**
 - L2 is fragile
- ☆ **MPLS frame looks like another L3 Proto**
- ☆ **So remote access via MPLS is planned**
 - Joint effort with Japan Telecom
 - Investigating a way to avoid LDP Hello's
 - Multicast packets are not welcome

MPLS

- ☆ **Another way to get access to DIX-IE**
 - via MPLS
 - Label is informed via BGP
 - Then BGP session to remote ISP is possible
 - Now testing in lab
 - Test operation start in next months

