

WIDE Internet

Keio University

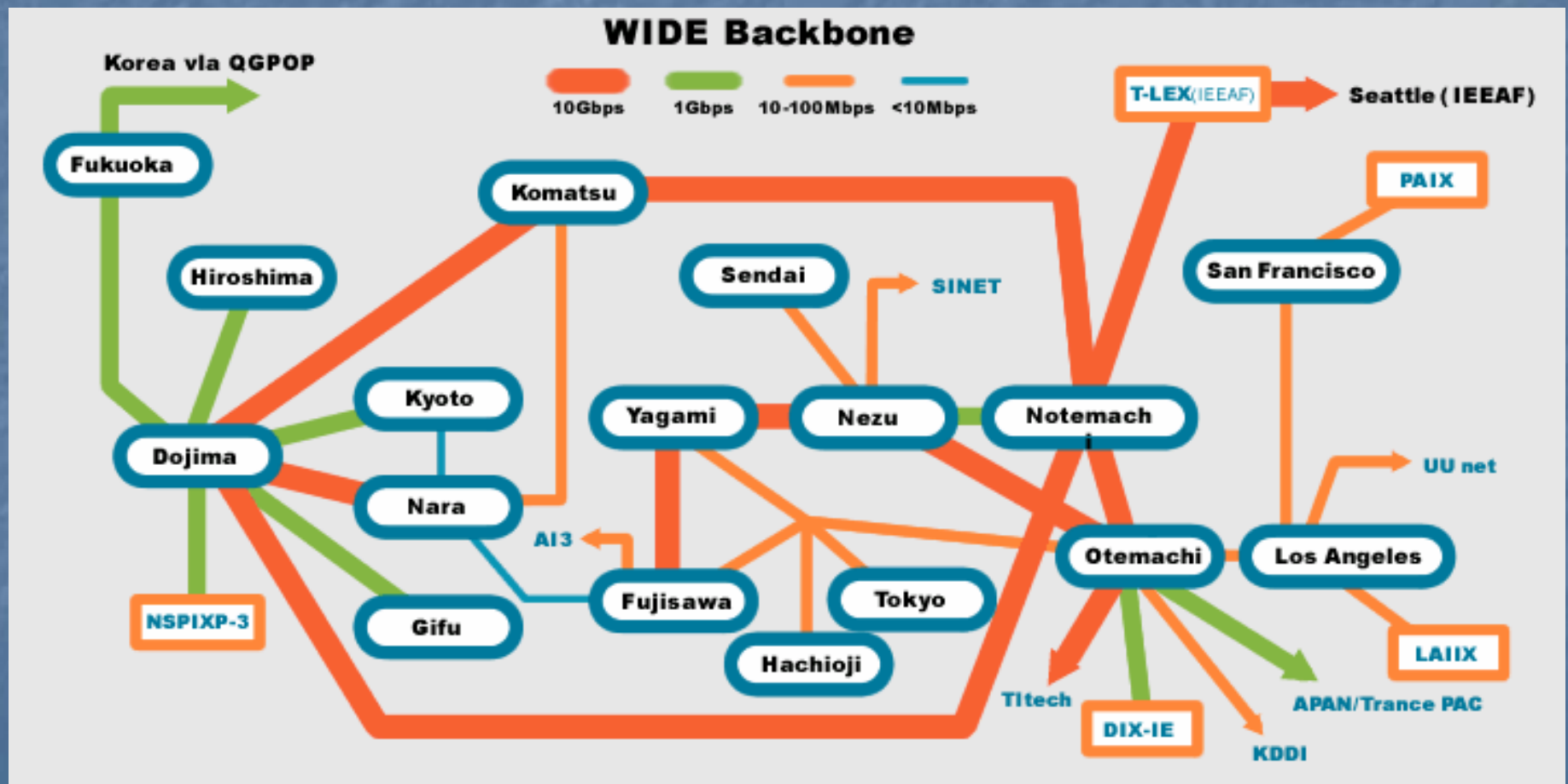
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WIDE Internet

- We want to have our own network
 - The test bed network for WIDE research
- We put the commodity traffic on our network
 - We want to have a real environment
 - We buy the routing information from commercial ISP
- WIDE Project runs IX
 - DIX-IE
 - T-LEX

WIDE Internet NOW!



Network operation center

- Each university has responsibility to manage the network operation center
 - There is no centralized center
 - Basically 24x7 operation
 - SMS type application is used to get alarm
- Communication among the operators
 - Operators meeting 6 times a year
 - On-line communication

TWO Working Group

- Team of WIDE Internet Operators
 - More than 100 people get involved
 - Web based communication

WIDE Project's IX activities

NSPIXP

Internet Network Service Provider eXchange Project

- DIX-IE
 - Destributed IX
 - Six locations in Metropolitan Tokyo
 - Formerly called as NSPIXP-2
- NSPIXP-3
 - first distributed IX in Osaka
- NSPIXP-6
 - experimental IX for IPv6 inter-connection
- T-LEX

DIX-IE

Distributed Internet eXchange Point In Edo

- Distributed IX
- six locations in Tokyo from March 28th 2003
- the largest Internet eXchange Point in Japan
- was lanced in 1996 at KDDI Otemachi Bldg. 5Floor.

- NSPIXP itself, started in 1994 at Iwanami Bldg
- first Internet eXchange Point in Japan.

- providing L2 shared switch service to over 100 organization which includes Japanese major ISPs.

- Supporting Media is FastEthernet ,GigabitEthernet and 10GigabitEthernet, now major ISPs shift to 10GigabitEthernet.

DIX-IE Point of Presence

- KDDI Otemachi bldg(WIDE)
 - Core: Foundry BigIron 15000x2
 - Leaf: Foundry BigIron15000,8000 . MG8,BI8000
- NTTCom Otemachi bldg (NTTCom)
 - Foundry BigIron 15000x2
 - Foundry BigIron MG8
- ComSpace(AboveNet)
 - Foundry BigIron 8000x2
- @Tokyo (POWEREDCOM)
 - Extreme Alpine 3808x2
- MCI Shinkawa Data Center (MCI)
 - RiverStone RS38000,NEC IP8800/750
- Nishi-Oi NF Park bldg (MIND)
 - Foundry BigIron 15000x2

DIX-IE Point of Presence



KDDI Otemachi



At Tokyo



Nishi-Oi NF Park



NTT Otemachi



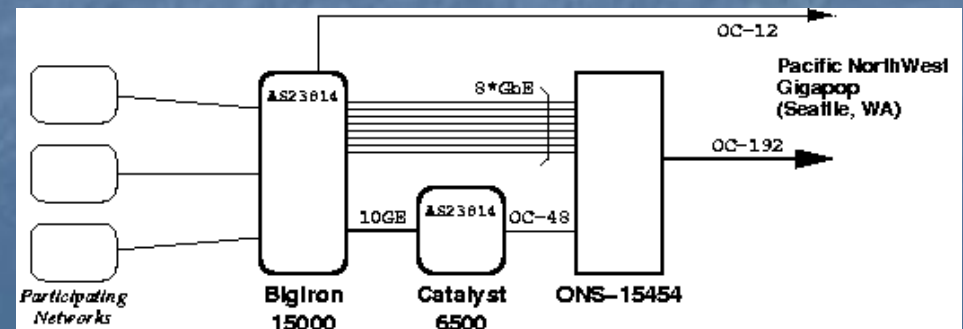
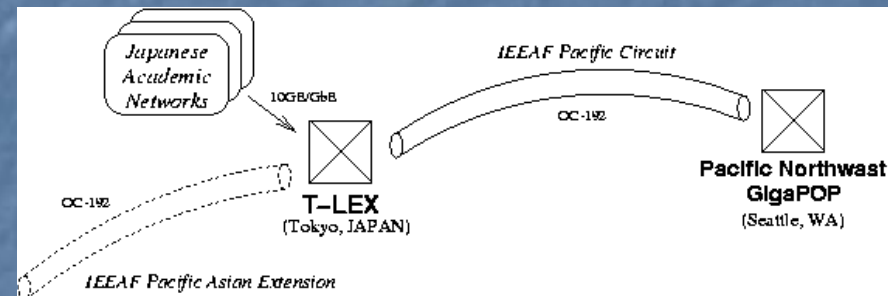
ComSpace



Tokyo Dia bldg

T-LEX

- Tokyo Lambda Exchange
- Public Lambda IX
- Cooperate network
 - International relation
 - IEEAF
 - China
 - Korea
 - Thailand (Planned)
 - In Japan
 - WIDE Internet
 - JGNII



Tokyo Lambda Exchange(T-LEX)

