

JPIX “Updates”

Japan Internet Exchange Co., Ltd.



Establishment of JPIX in July 1997

- ◆ Necessity of **commercial IX**
 - Joint venture invested by major ISPs in Japan

- ◆ To provide reliable interconnection Environment
 - **24H / 365days** monitoring and operation
 - Collocation service

- ◆ To provide value added services
 - Statistics for customer traffic
 - Route Server/Route Registry(Routing Confirmation)
 - Route Server (Automated Peering System)
 - NTP Server

Services by JPIX

- ◆ IX ports
 - 10Gigabit Ethernet port (10Gbps)
 - Gigabit Ethernet port (1Gbps)
 - Fast Ethernet port (100Mbps)
- ◆ Remote access
 - ATM, FE, GbE, Dark Fiber
- ◆ Collocation Service
 - To provide a full rack for customer ISPs routers
- ◆ In-house cabling

Expansion of JPIX

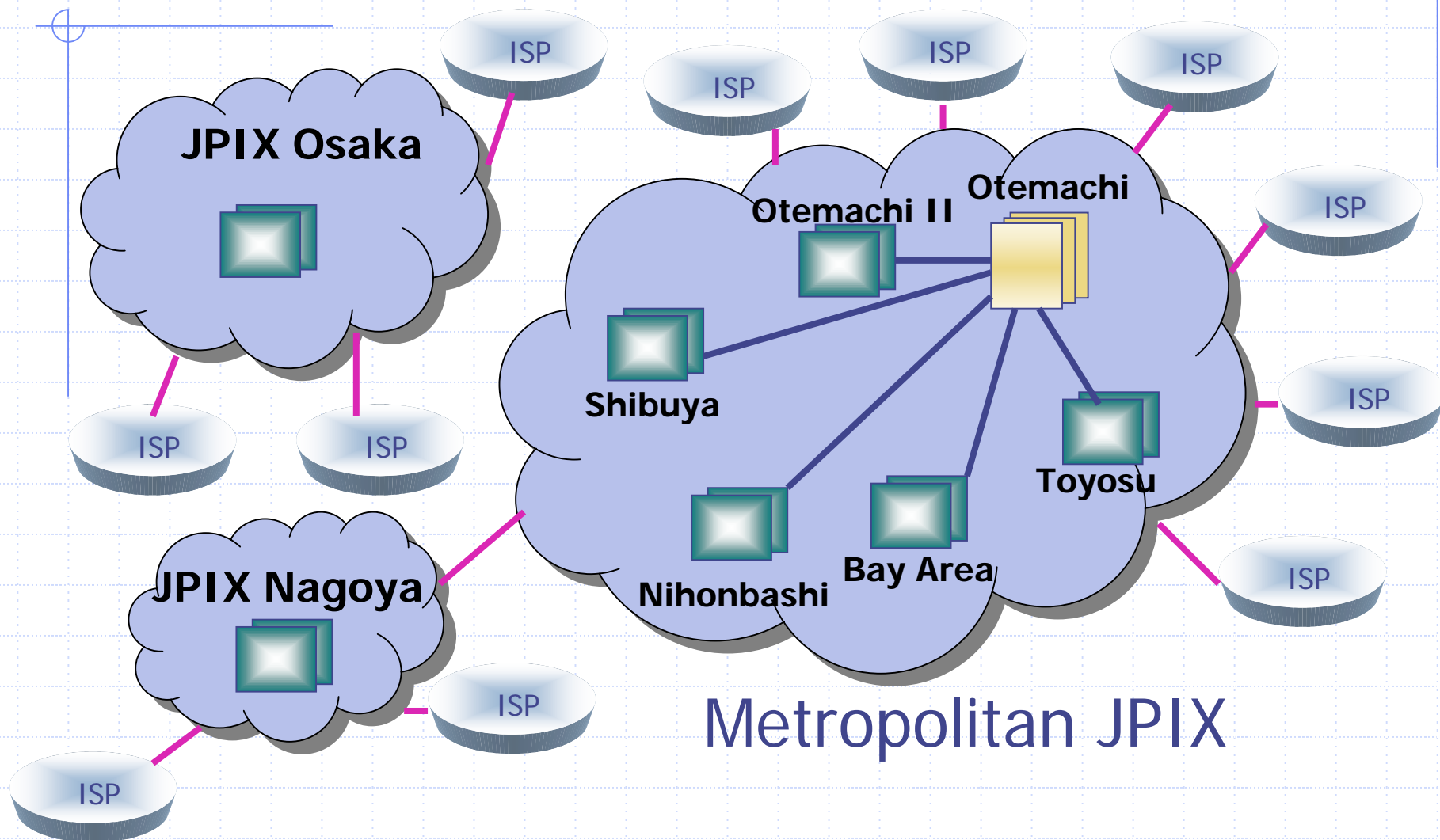
◆ Metropolitan JPIX

- To install IX switches in metropolitan area as distributed Ixs
- JPIX Otemachi (MainSite): from July, 1997
- JPIX BayArea: from December, 2000
- JPIX Otemachi II: from November, 2001
- JPIX Toyosu: from May, 2002
- JPIX Shibuya: from July, 2002
- JPIX Nihonbashi: from April, 2004

◆ Regional JPIX

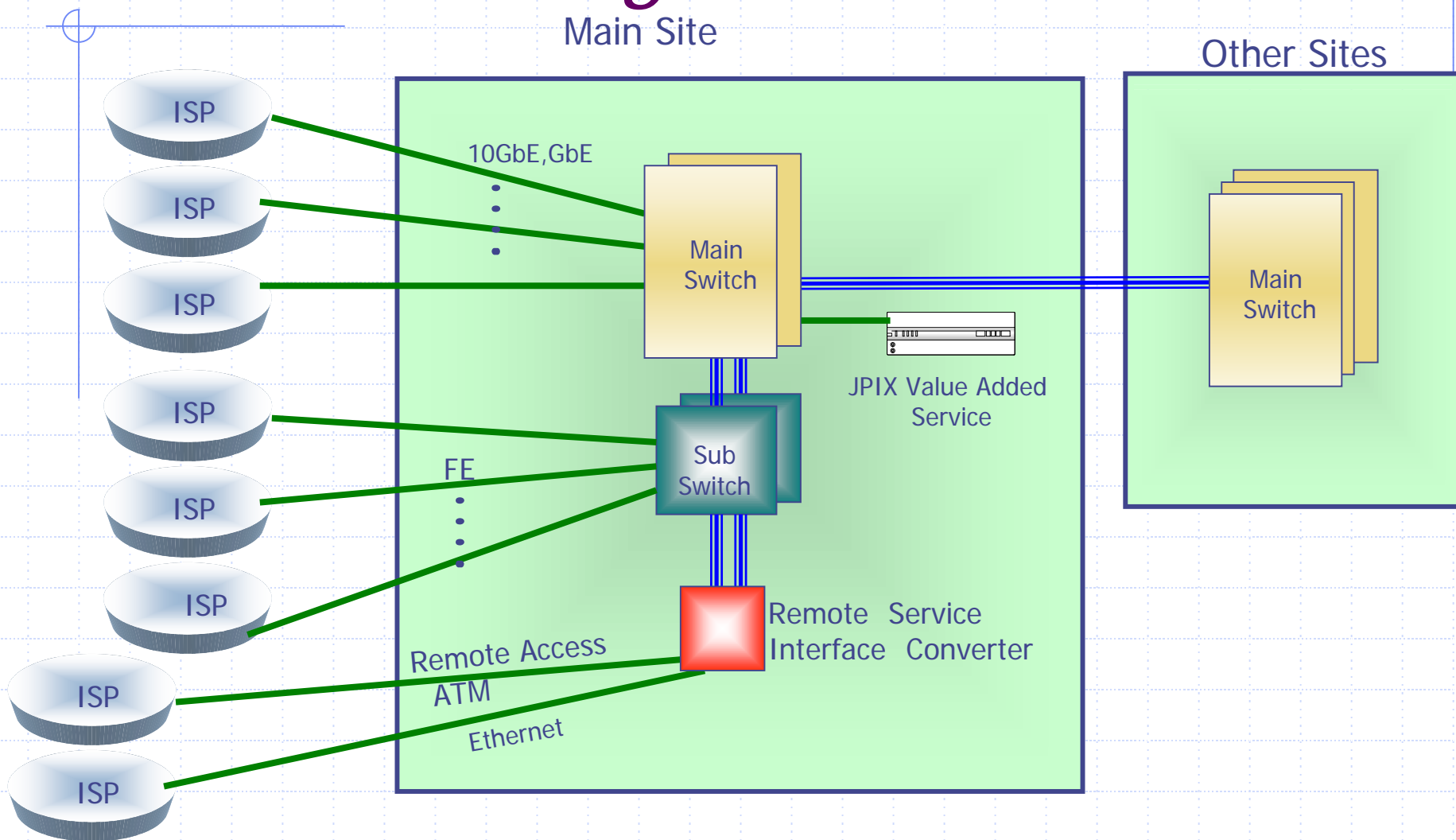
- To install a local IX switch and/or a circuit concentrator connected to Metropolitan JPIX
- JPIX Nagoya: from April, 2001
- JPIX Osaka: from April, 2002

Expansion of JPIX

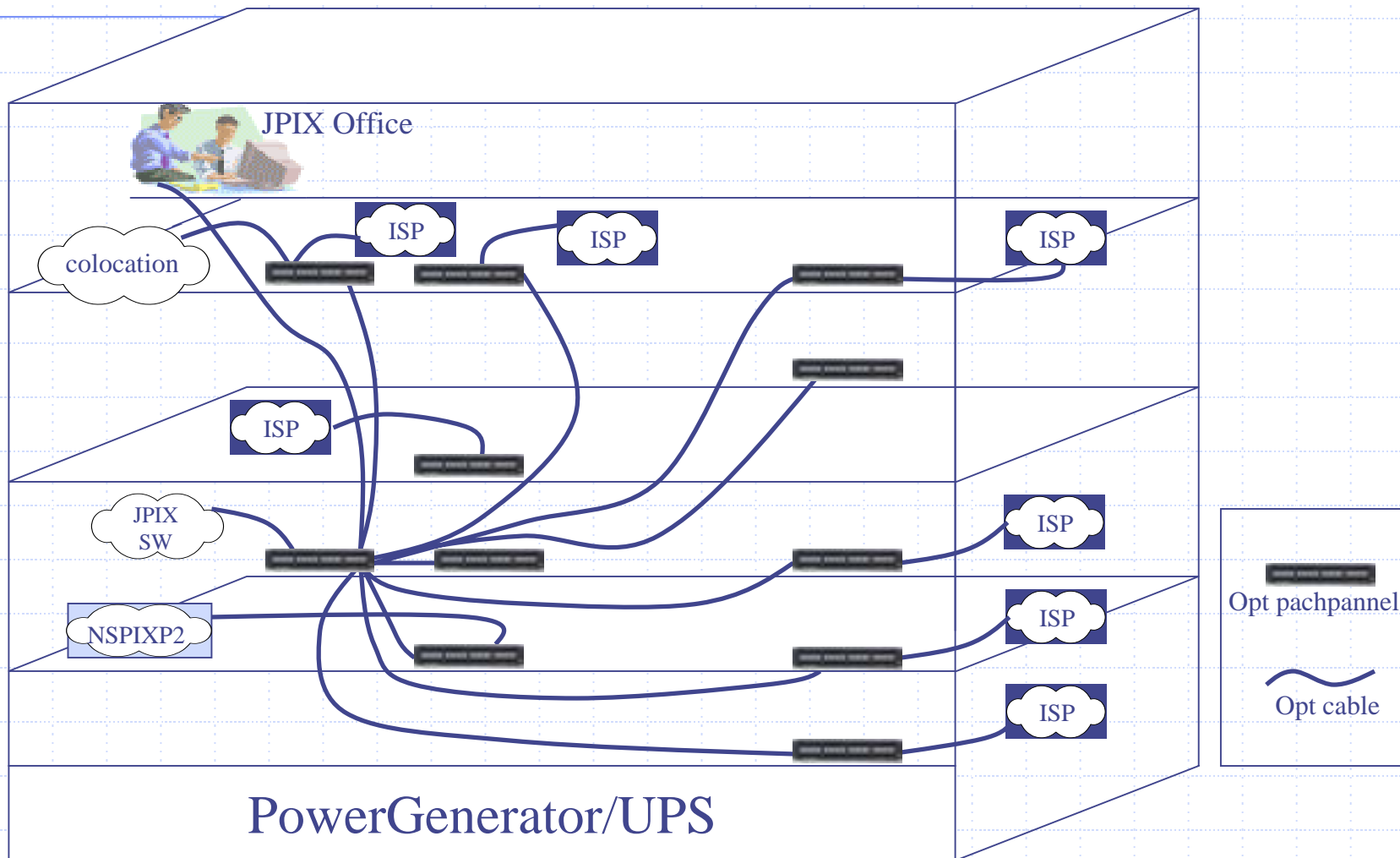


Metropolitan JPIX

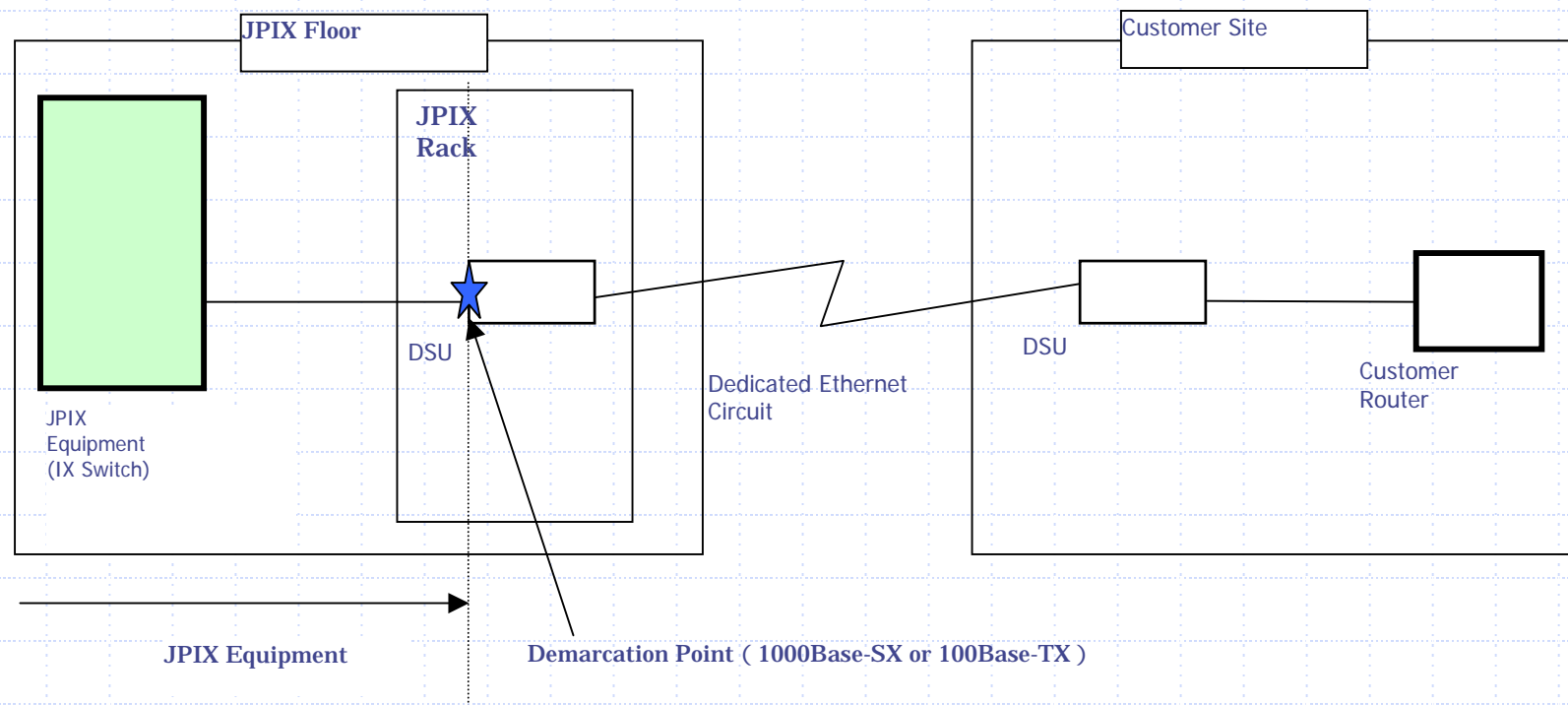
Network Configuration



JPIX Otemachi (KDDI Otemachi Bldg.)



Remote Connection Diagram (1000Base-SX or 100Base-TX)



IPv6-IX Experimental Service

◆ History

- Experimental service since Jan, 2002

◆ Service Conditions

- Port Charge: free
- For JPIX customers only
- Port I/F: Fast Ethernet
- IPv6 IP address: assigned by APNIC
- SW location: KDDI Otemachi
- Stand alone: not dual stacked

◆ No. of customer ISPs connected : 16

Switching capacity

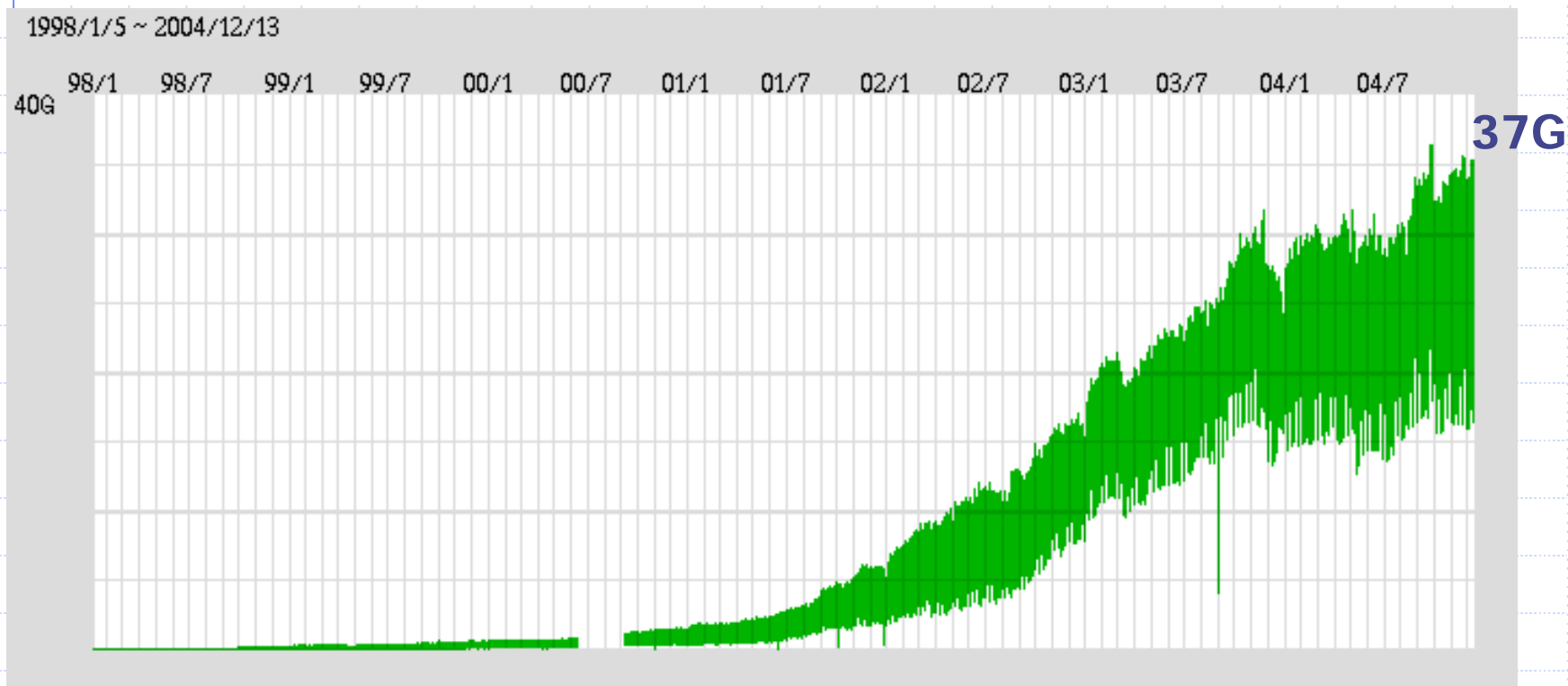
- ◆ To handle very rapidly growing Broadband traffic we are offering 10GbE port since Sept. 2003.
- ◆ Aggregate switching fabric throughput of 1.68 Tbits/s.



Traffic Volume

IX backplane Max/Min Traffic

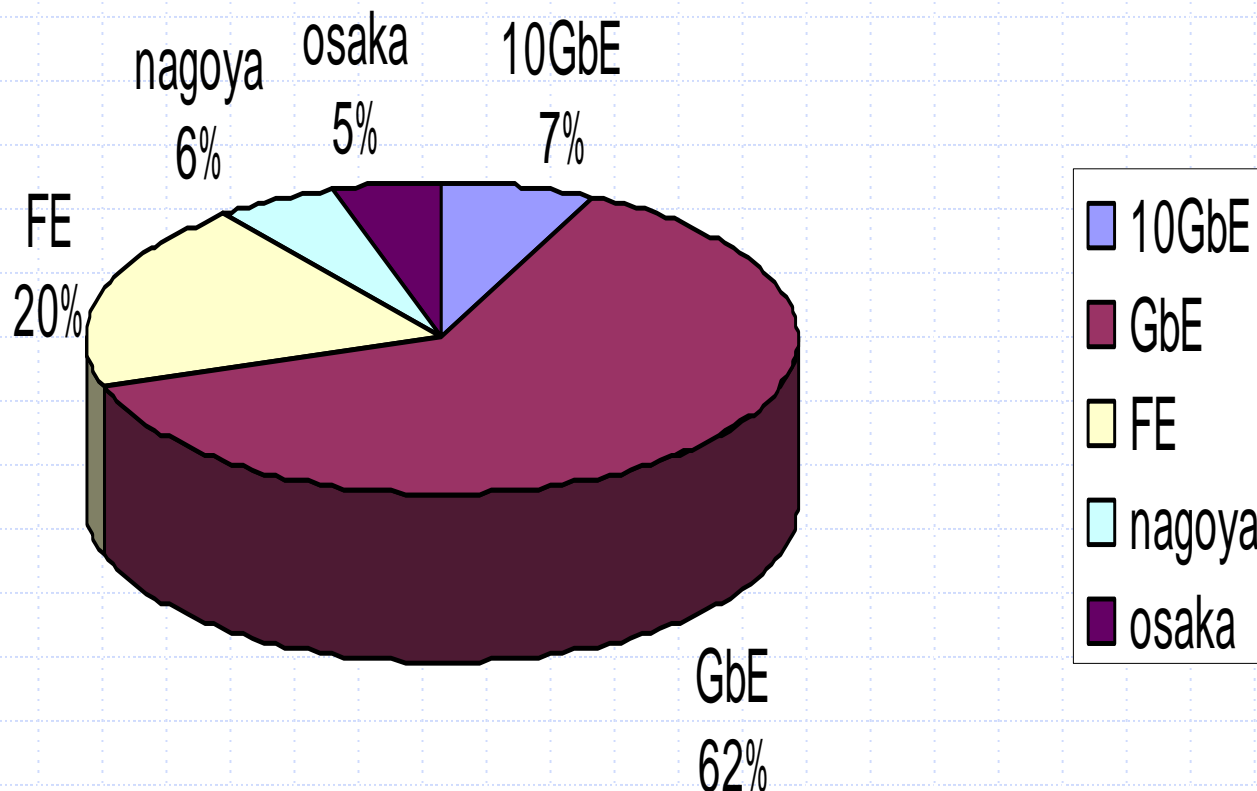
January 18, 2005



JPIX customers and ports

(mid of Feb. 2005)

◆ No. of customer ISPs : 109



Thank you



takejiro@jpix.ad.jp
<http://www.jpix.ad.jp>