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
 - 24Hr / 365days monitoring and operation
 - Collocation service
- To provide value added services
 - Statistics of our customer traffic
 - Route Server/Route Registry(Routing Confirmation)
 - Route Server (Automated Peering System)
 - NTP Server



Main Services by JPIX

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



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



Optional Service (Free of Charge of course)

- Route Confirmation Service
 - provides route comparison with IRR database
- Route Exchange Service
 - provides routes that connects to RS automatically
 - Free of charge
 - no need of peering negotiation
- NTP Server(Stratum1) connection
- Net News Server
- snmp traffic counter measurement for each customer
- sFlow traffic analysis page for customer

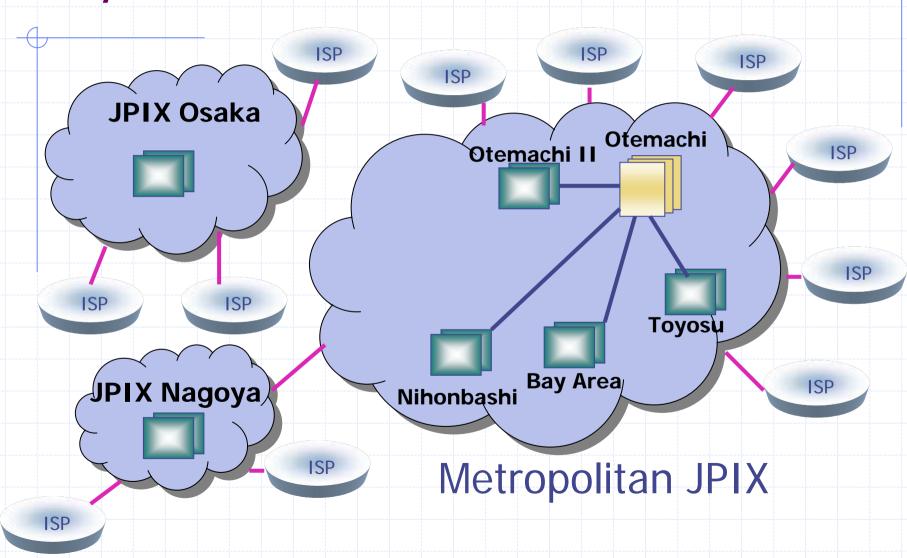


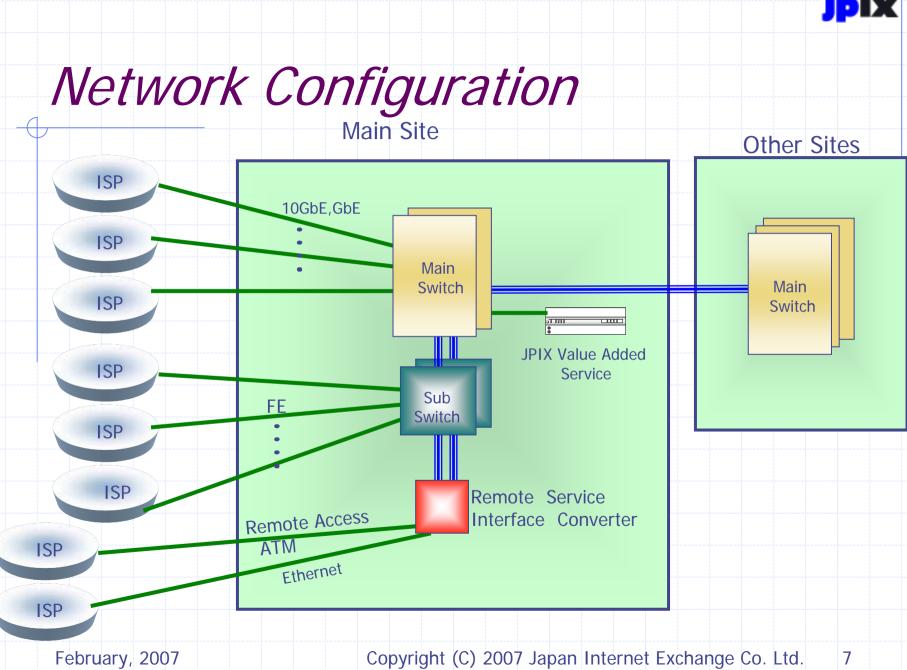
Expansion of JPIX

- 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; closed October, 2006
 - 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



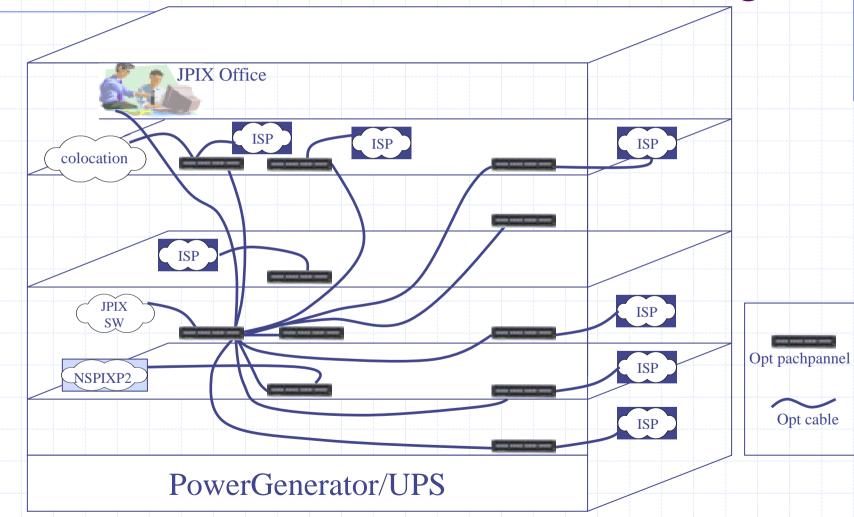
Expansion of JPIX



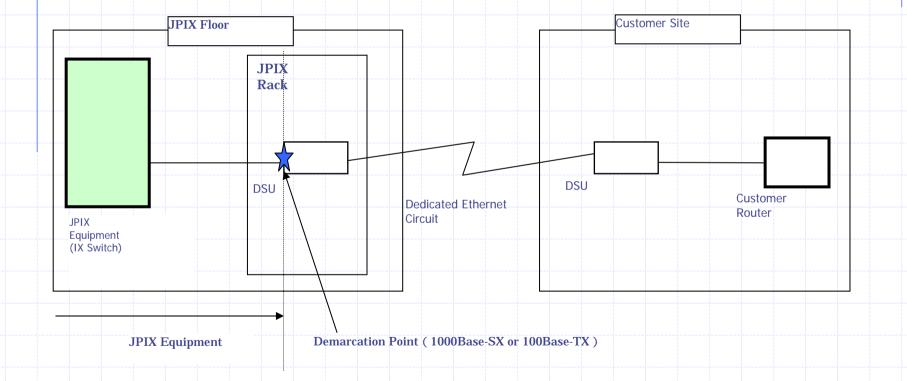




JPIX Otemachi (KDDI Otemachi Bldg.)



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





Switching capacity

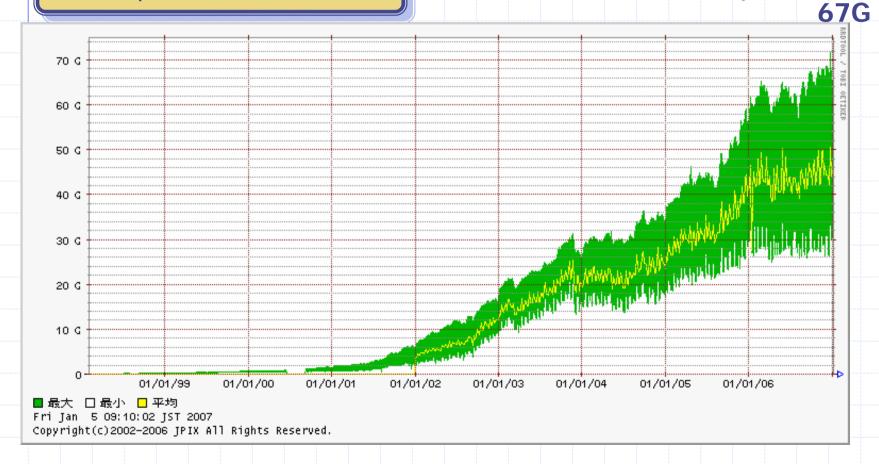
- To handle very rapidly growing broadband traffic, we are offering 10GbE port since Sept. 2003.
- Aggregate switching fabric throughput of 1.68 Tbits/s.



Traffic Volume

IX backplane Max/Min Traffic

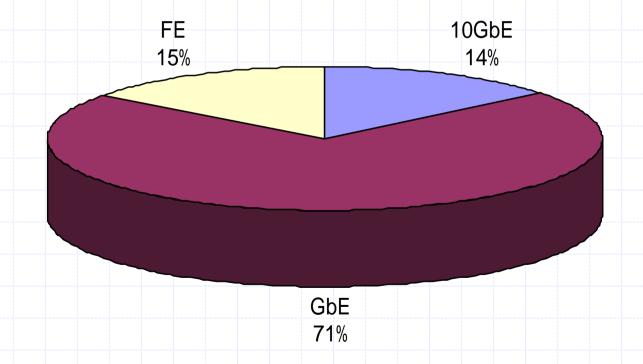
January 5, 2007





(Jan. 2007)





Thank you



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