



KR-JP IPv6 Cooperation Plan

January 22, 2003

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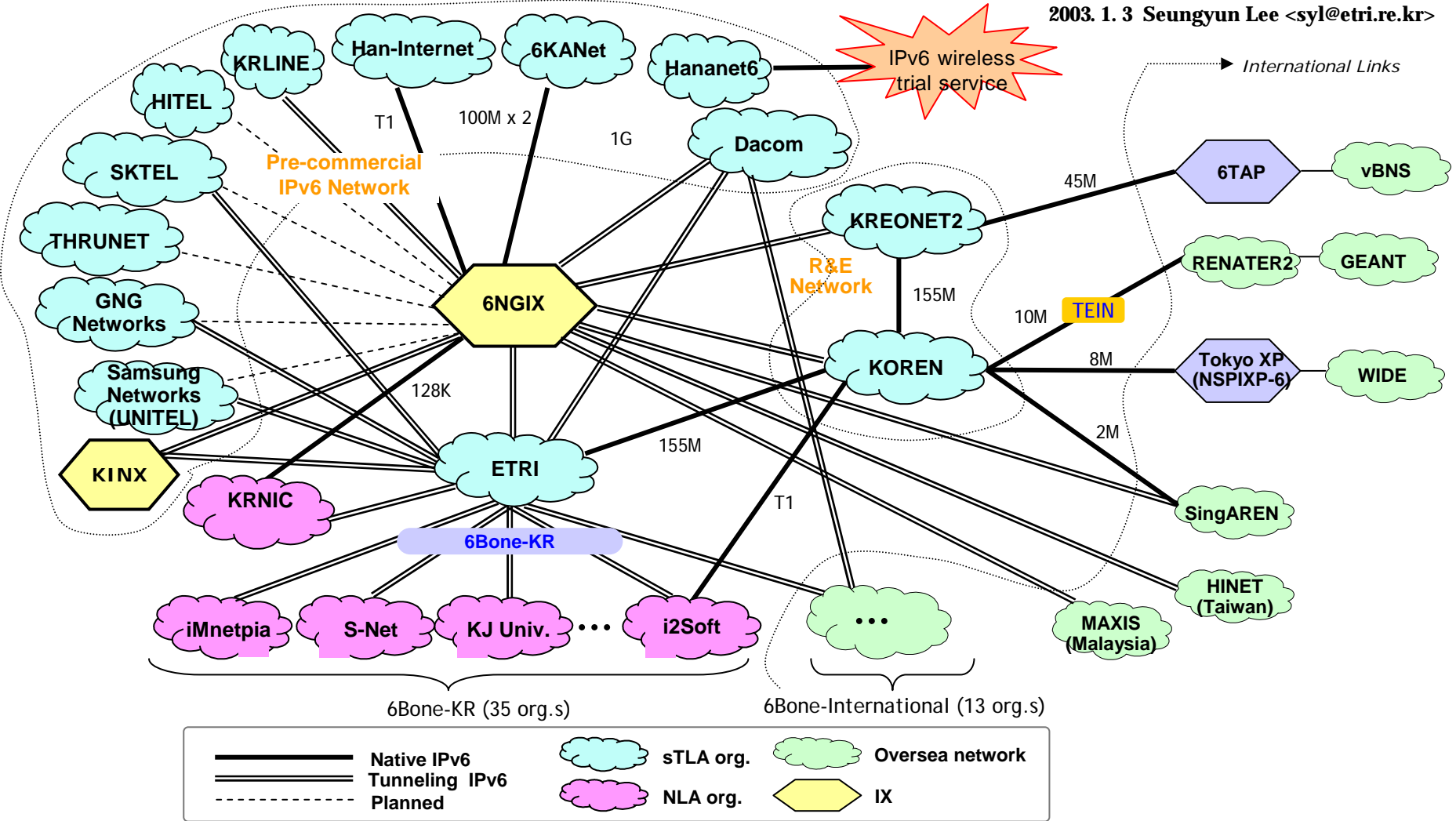
IPv6 Status In Korea

IPv6 Network (1)

- 6Bone-KR : The first IPv6 testbed in Korea
- KOREN IPv6 : inter-connect with several overseas IPv6 network (through APII, TEIN)
- 6KANet : Provide public institutions with IPv6 internet services
- 6NGIX : IPv6 Internet eXchange

IPv6 Network (2)

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IPv6 Technical Development

■ IPv6 Application : NCA

- ➔ High-quality Multimedia based Real-time Emergency Telemedicine Service
- ➔ Development of SIP based VoIPv6 & High Level Application
- ➔ Real-time Virtual Conference using IPv6 Multicast
- ➔ Development and Implement of Mobile Services in the Next Generation Internet
- ➔ Development and Implement of Advanced Integrated Interface System based on Next Generation Internet for Measurement and Control

■ Network Technology : ETRI

- ➔ 6TALK : IPv4/IPv6 Translation technology
- ➔ 6NATS : IPv6 autoconfiguration technology
- ➔ 6NEAT : Research for the IPv6 Network and Application testbed

IPv6 Test Activity

■ IPv6 Test-Institutes

- ⇒ Test WG (IPv6 Forum Korea)
- ⇒ Interoperability test between IPv6 equipment (TTA)
- ⇒ ION(Interoperable Open Network) : Interoperability test between IPv6 equipment

■ Trial Services

- ⇒ IPv6 Webcast : ngix.ne.kr/ncaipv6 (NCA)
v6stream.6neat.net (ETRI)



Future Plan for IPv6 in Korea

Key Activity

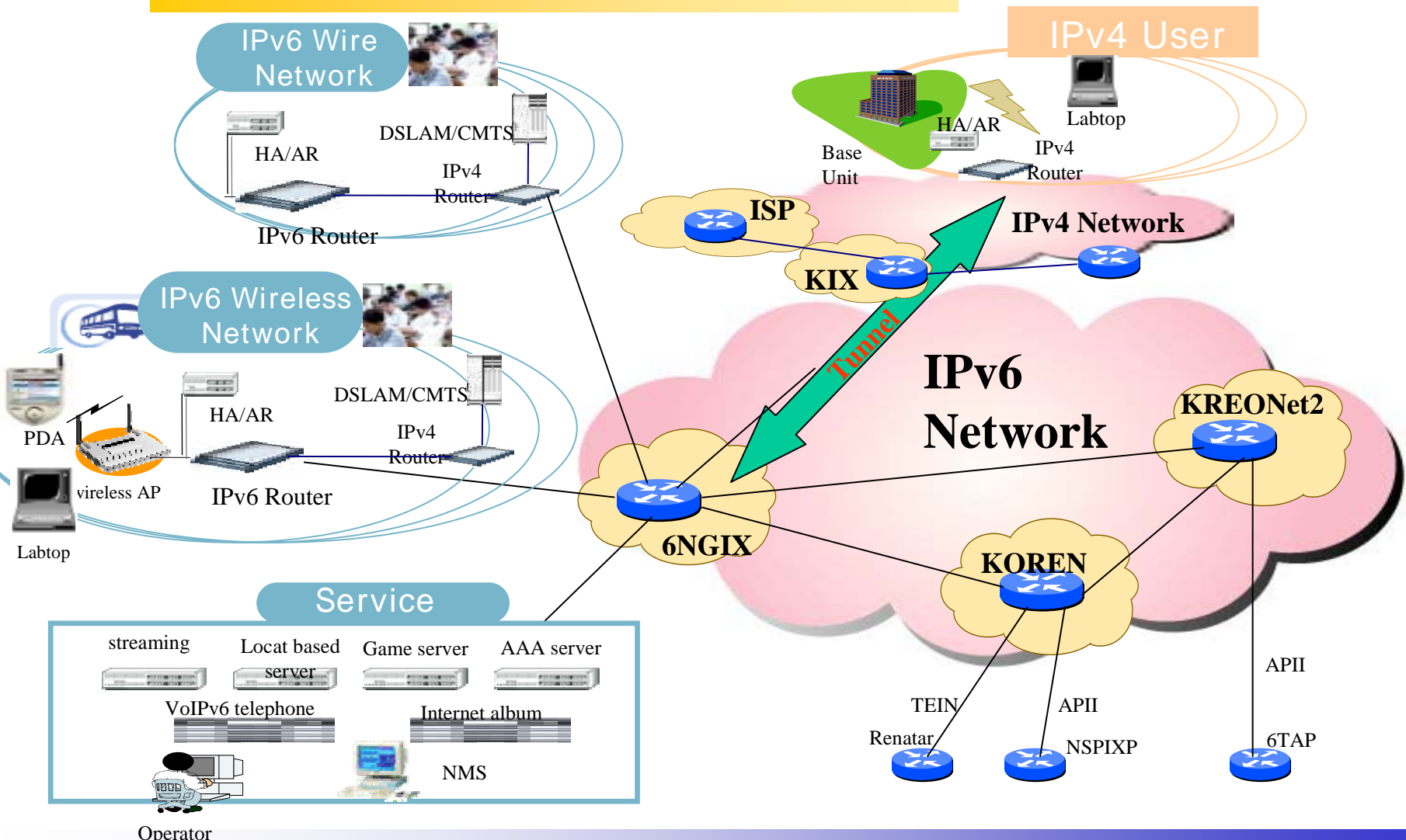
- Build Large-Scale IPv6 Network for trial of IPv6 equipment & applications → [KOREAv6](#)
- Open demonstration room of IPv6 applications → [IPv6 Showroom](#)
- Interconnection of IPv6 network between Korea and other nations(Japan, Europe etc.),
- Joint study of IPv6 with overseas research institutes

KOREAv6 Network (1)

- Build Large-scale IPv6 Network (KOREAv6)
 - ➡ interconnect existing IPv6 networks(6NGIX, KOREN, 6KANet...) in Korea
 - ➡ build IPv6 wireless network in cooperation with ISP for providing IPv6 services to some hot spots(wireless LAN)

- Deploy and test IPv6-based equipment & applications developed in Korea

KOREAv6 Network (2)

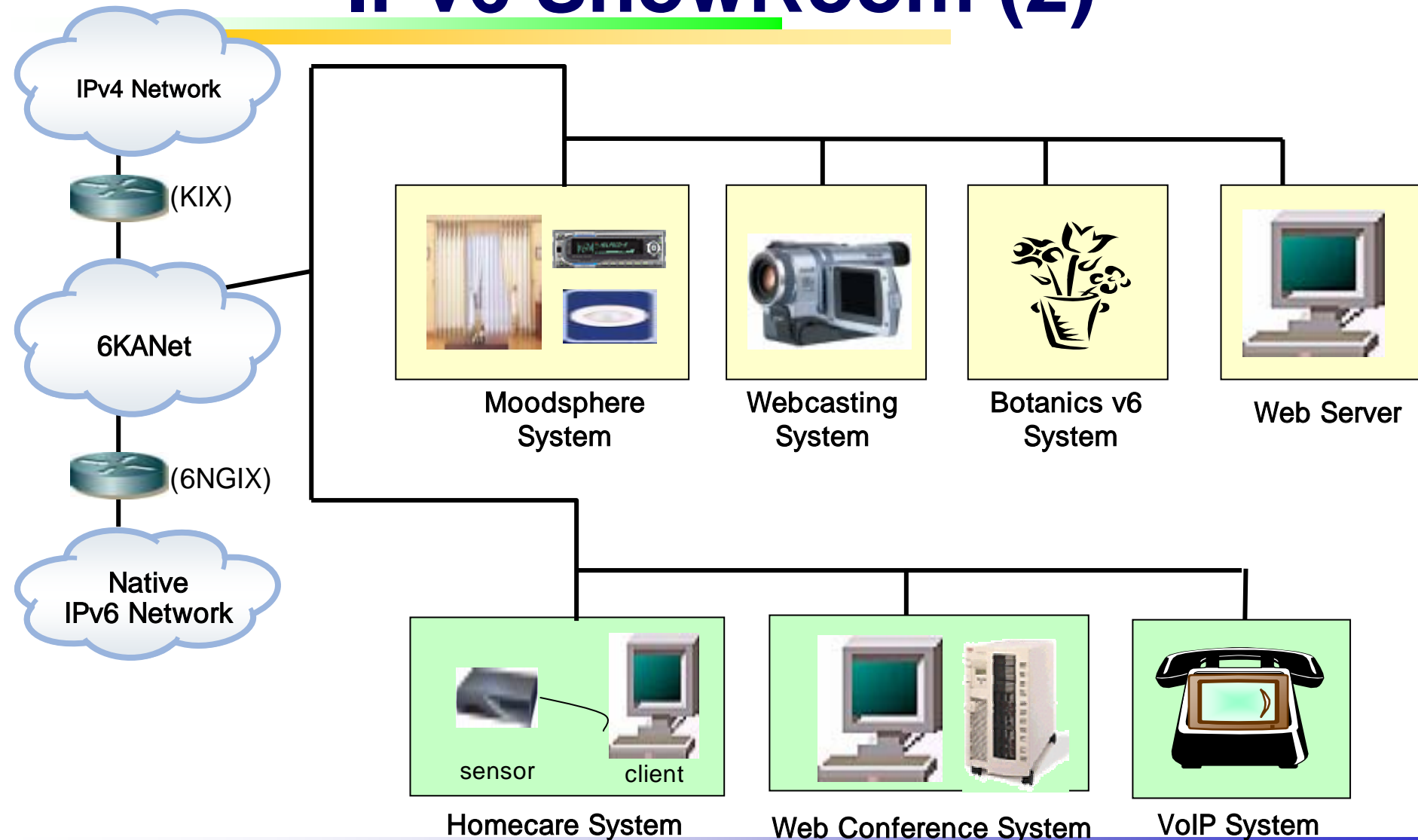


Operator

IPv6 ShowRoom (1)

- Place : NCA Building. Mugyo-dong, Jung-gu, Seoul
- Open : 2003. 6. ~
- Applications & Services
 - ➔ MoodSphere System : light, curtain, music, ...
 - ➔ Botanic v6 System :
 - ➔ VoIP System
 - ➔ Homecare System
 - ➔ Web Conference System
 - ➔ Webcasting System
 - ➔ Web Server

IPv6 ShowRoom (2)

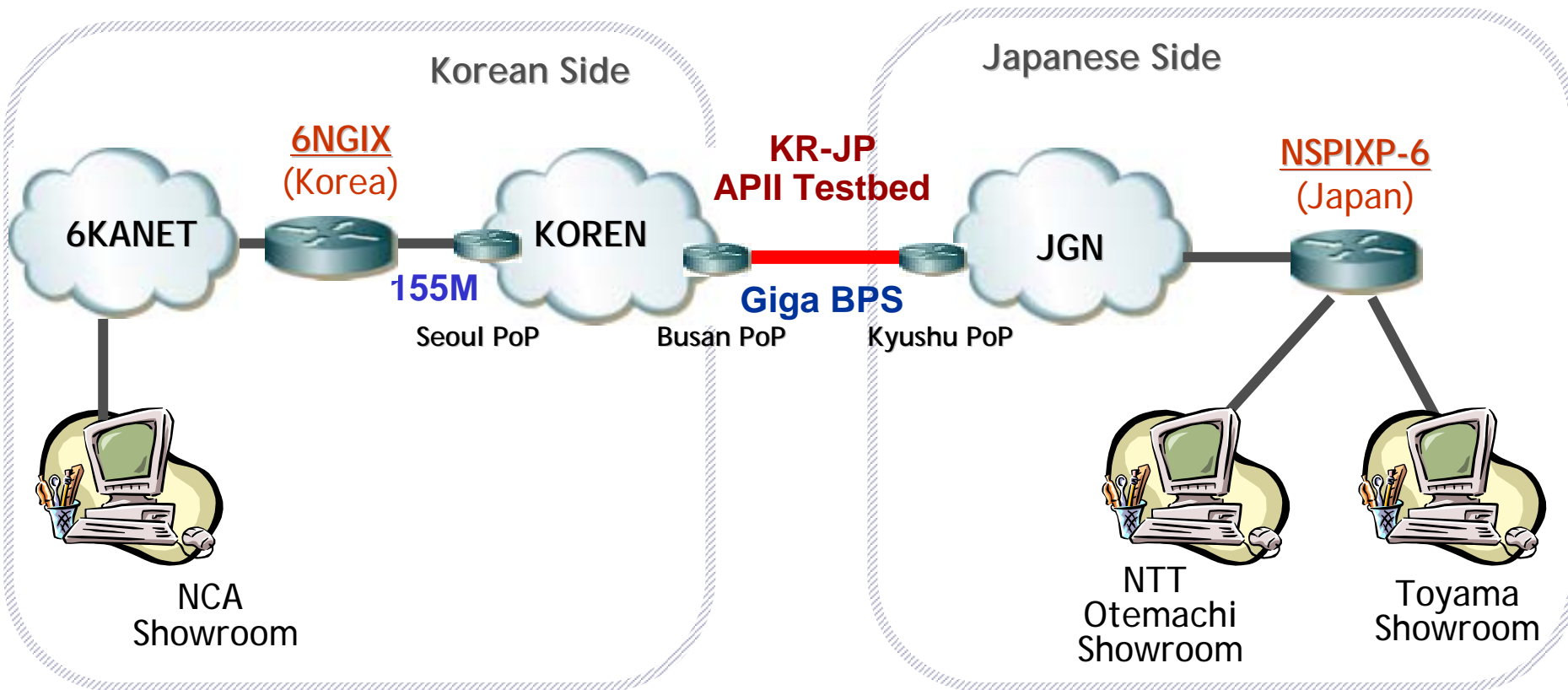




Korea-Japan IPv6 Cooperation Plan

IPv6 Native Network (Plan)

- Interconnection of IPv6 Networks for showrooms using KR-JP APII Testbed



Exchange Programs of IPv6 Showroom

- Remote Control Service :
e.g. : Remote controlling of IPv6-enabled web camera at Japanese showroom (*Galleria v6*) from Korea
- Exchange of demo tape
- Donation of IPv6 applications & IPv6-enabled info-appliance (e.g. : Internet Refrigerator)
- Exhibition of IPv6 applications at IPv6 events such as IPv6 workshop, IPv6 summit held at each side

IPv6 Joint Research

- Research Joint Project and Perform Co-Study
- Research Area (example)
 - ➔ Management of IPv4+IPv6 network
 - ➔ Multicast
 - ➔ IPv6 mobile technology
 - ➔ Quality of Service (QoS)
 - ➔ Security
 - ➔ IPv6 Standard



Thank You !!

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