

Regional Challenges in NGN Deployment toward Bridging Digital Divide

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Experiences in Japan / NTT



Present Situation in NTT

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FTTH	171 k	5.5 M
ADSL	-36 k	5.4 M
3G	974 k	32.1 M
2G	-967 k	20.1 M

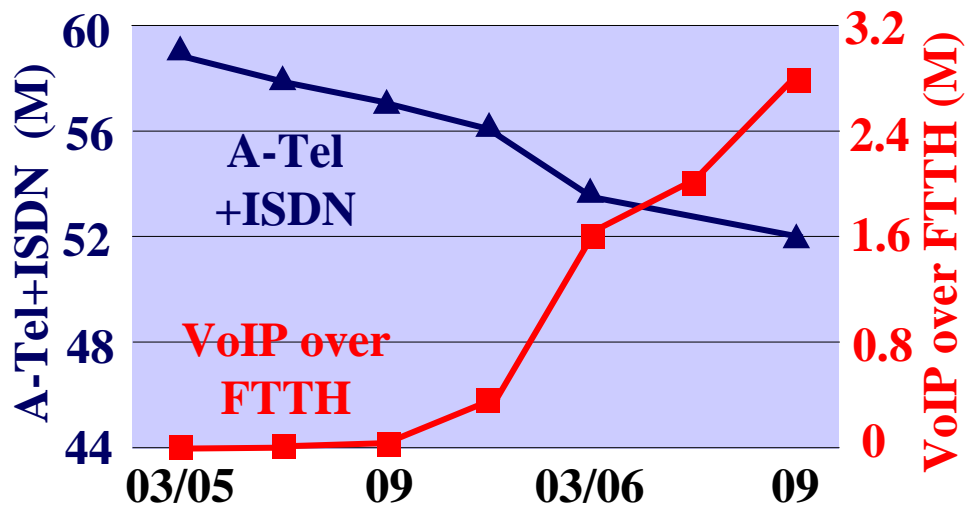


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Rapid Shift to VoIP

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Implementation

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1. Build a next-generation network that is *open, flexible, easy-to-use, interoperable, and safe&secure*

=> 30 million FTTH users by 2010

2. Strengthen our competitiveness and financial base (Targets up to 2010)

- Annual additional sales: 5 billion US\$

- Total capital expenditure: 50 billion US\$

- Annual cost reduction: 8 billion US\$

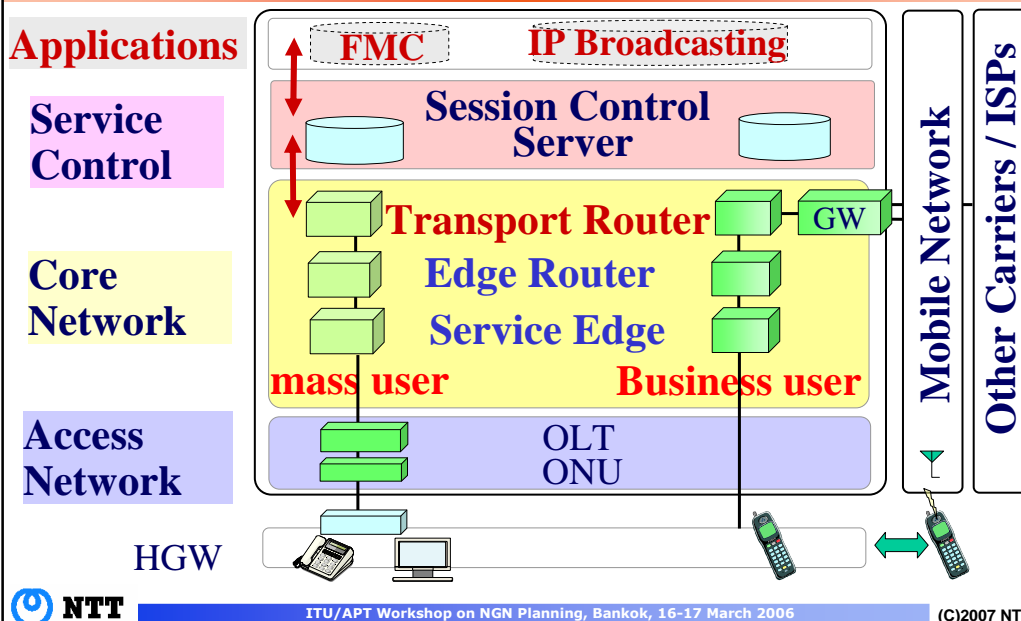


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NTT's NGN Architecture

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NTT's NGN Trial (Dec.2006 ~)

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1. The world's first NGN using real network

- *Experiences of **NGN services and appliances***
- *Collecting customers' needs and consulting technical information*
- ***28 trial participants** including a major router vender*

2. NOTE: NGN Open Trial Exhibition

- *Show-rooms in Tokyo and Osaka*
- ***Business, life, society, core technology, and application platform oriented exhibitions***



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NGN as Regional/Global Infrastructure



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NGN vs PSTN & The Internet

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PSTN

- High quality voice-centric service
- Reliable and stable
- Public network managed by established OSS

The Internet

- Various broadband services
- Less expensive
- Distributed open network architecture

Fusion

NGN (Secure and full-IP network)

- inherits high quality and reliability from PSTN
- exploits IP technology
- overcomes security issues

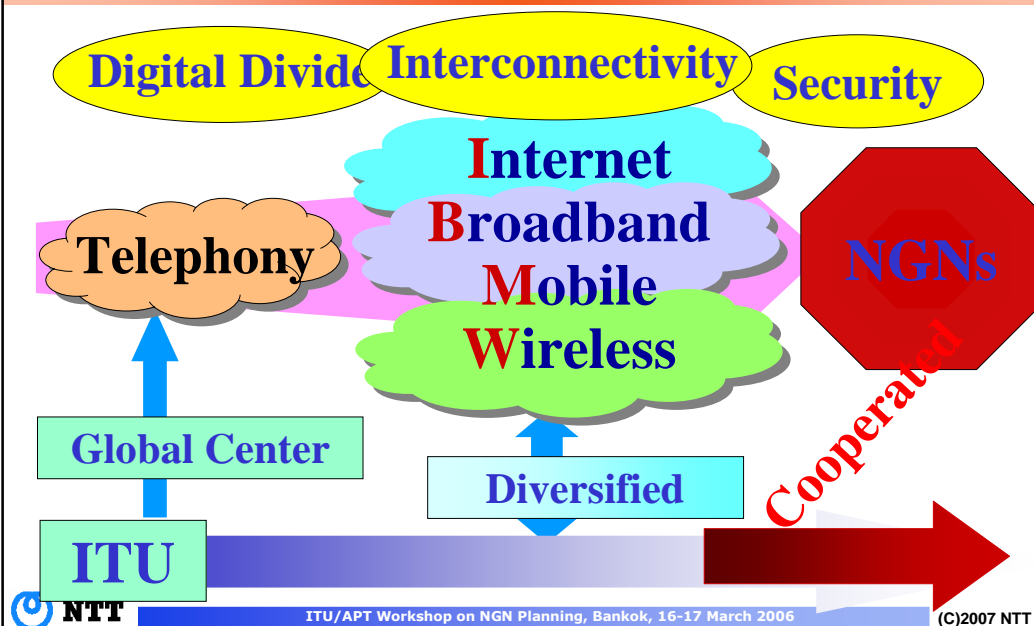


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Issues for Regional/Global NGN Deployment¹⁰



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Status of Telecom in Asia/Pacific

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PSTN:

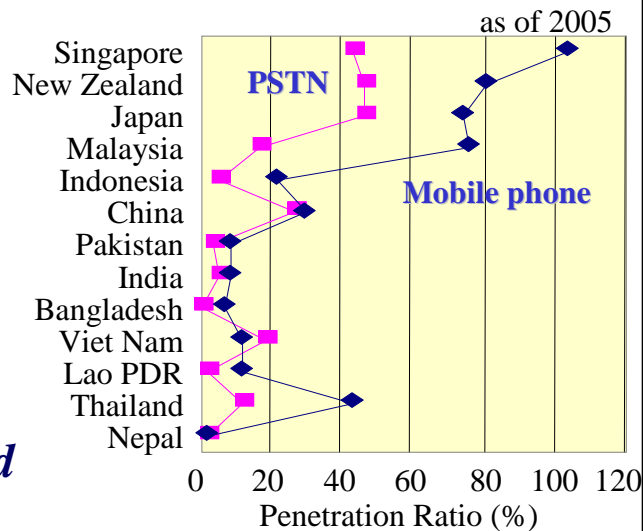
Almost matured

→ *shows the limit of wired access*

Mobile Phone:

Still growing

→ *easily exceed the limit of wired access*



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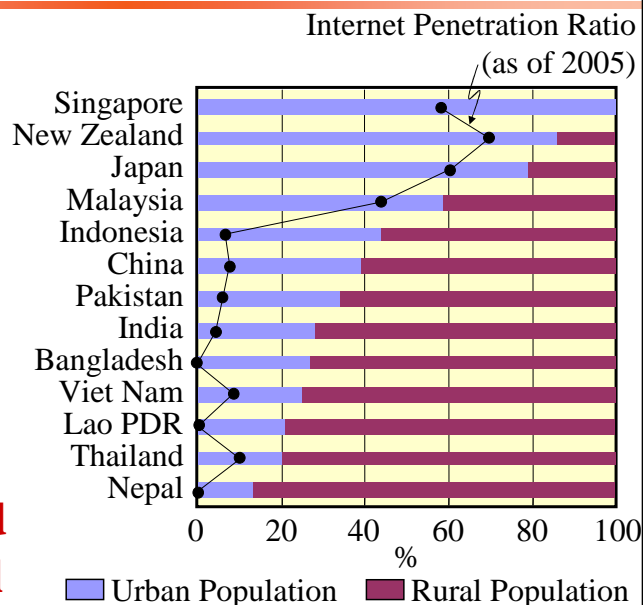
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Internet Access in Asia/Pacific

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1. Potential increase in the number of Internet users
2. High rural population in many countries

Development of cheap broadband access is essential



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The Way to Regionalization

Rationale for Regionalization

Globalization:

- *basically market-oriented standardization*
- *difficult to reflect special needs if the market size is small*

Regionalization:

- *collecting various requirements from many countries/members*
- *classification of requirements into several classes*
- *each class becomes significant enough to be standardized and more attractive to vendors*

What ASTAP/APT Should Do

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So, what is required in Asia/Pacific?



- *to make regional consensus for e.g., cheap broadband access*
- *to encourage ITU-T and De-Facto proposing it as our regional requirements*
- *to learn the success story of GSM developed by ETSI is essential (they're paving the similar way for NGN standardization)*

For the Promising Future

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