# Launching an NGN commercial service - NTT's approach -

## April 7, 2009

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(pre-NGN)

Number of users (Million)

















#### Timing of NGN launch....

- Establishment of nationwide customer base (9M subscriber) Requirements
  - Low cost structure
  - Reliability and traffic control
- Start of triple play services

#### Requirements

- Attractive network for content providers  $\rightarrow$  QoS and Capacity
- Market expansion to new business areas  $\rightarrow$  Open Interface

#### Solutions brought by NGN

- Converged network
- → Carrier-grade IP network

#### Solutions brought by NGN





2004: Started triple play (pre-NGN)

IP

**PSTN** 

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DSLAM

Significance of the field trials

•The starting point for collaboration with service providers.

•Verification of the NGN implementation



# Field Trials of NTT's NGN Dec. 2006 – Dec. 2007



- Creation of new business opportunity with ASPs
- Building consensus to use NGN as a communication infrastructure of the future



# Examples of services tested in the trial

#### NGN for Business

- High definition visual communication
- Wideband IP conference calls
- Enterprise-oriented network service
- Push to talk with multimedia over NGN, etc.

#### NGN for Life

- Broadcast retransmission over IP
- High-definition IPTV service
- IP high-definition videophone
- -Wideband IP phone
- -Ubiquitous network service for children's safety, etc

#### NGN for Society

- Telepathology
- Home security and control
- Healthcare
- Gentle touch supervision by robot, etc.







### Alternative ways of migration to the NGN





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# Alternative approaches to migrating telephony





- Covering a wide area in short time frame
- Version up from pre-NGN
  - Same categories of services = upward compatibility + QoS and security
  - New services aimed towards new business areas

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from existing IP network to NGN





Deployment of both fixed and mobile full-IP network infrastructure will be in 2010

- This will be based on 3G infrastructure subscriber base started in 2001
- Mobile handsets have already become multi-media terminals using i-mode, video phone, 1seg TV, etc.
- LTE will drive end-to-end IP broadband communications.



There are two questions regarding the launch of the NGN

Chicken or egg?
Which comes first? (or, Highway or sports car?)

NTT may appear to be looking at infrastructure alone. However, NTT's approach is based on synchronizing development of services and infrastructure

 From where do subscribers migrate ? What is the subscriber base ?

> BT: Migrate from PSTN Europe: Migrate from GSM world

NTT: Migrate from IP broadband



# NTT's approach is based on synchronizing development of services and infrastructure



# NTT subscriber base and revenue source will be migrated to NGN from IP broadband



# Summary

NTT's history and plan for the NGN

- Since NTT first provided an IP network service for Internet access, NTT has promoted optical access and triple play services.
- To meet its timetable to get a 9M optical access subscriber base and establish revenue source from triple play, NTT has just started NGN commercial service.
- The NGN started in limited areas such as Tokyo and Osaka as an upgrade of the existing IP network service.
- The NGN will cover a wide area in short time frame and create new services aimed at new business areas.

# NTT's approach to launching the NGN

- NTT's approach is based on synchronizing the development of services and infrastructure.
- NTT's subscriber base and revenue source will be migrated from IP broadband to the NGN

# Thank you



