

# **NTT Communications IPv6 Deployment history & roadmap**

by

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- 6 June 2012 is World IPv6 Day!

We (NTT Communications group) had joined the IPv6 launch event.



# IPv4 service situation

- February 2011 - Internet Assigned Numbers Authority (IANA) has delegated last final /8 ipv4 address space to RIR
- 15 April 2011 - APNIC announced new IPv4 management policy that “Each new or existing APNIC account holder is only eligible to request and receive delegations totally a maximum /22 worth of address space from the APNIC IPv4 address pool”

Reference : <http://www.apnic.net/policy/add-manage-policy#9.10>

- Quarter 3, 2011 - NTTCT had received last /22 global IPv4 address resource from APNIC
- 28 November 2011 - NTTCT has announced IPv4 assignment policies
  - NTTCT will provide up to maximum of eight (8) global IPv4 addresses (/29) for each port charge

*(In case > 8 IPv4 addresses, NTTCT may consider case by case)*

  - NTTCT reserve the right to transfer the unused IPv4 address to other clients

- 18 August 2008 – NTTCT acquired a /32 IPv6 address space from APNIC
- 19 August 2008 – NTTCT started running IPv4/IPv6 dual-stack on NTTCT's core ISP backbone network
- 20 August 2008 – NTTCT started IPv6 peering connection for global IPv6 routing exchange with NTT Tier-1 Global IP Network
- 5 May 2011 – NTTCT delivered IPv6 to backbone DMZ network and implemented IPv6 to DNS servers  
*At this stage, NTTCT are fully ready to provide ipv6 transit through all NTTCT's up-streams.*
- 1 January 2012 – NTTCT started to provide IPv4/IPv6 dual-stack as default for all new ISP customers. NTTCT also ready to provide dual-stack network to any existing ISP customers.

*Note: NTTCT also has plan to activate IPv6 to all ISP related optional service portion such as Mail Hosting, Web Hosting and Monitoring services within year 2012*

## IPv6 service offering for our customers

- NTTCT is ready to provide IPv6 internet transit for our customers anytime once customer is ready to implement it
- NTTCT can provide IPv6 address space with starting from /56 up to /48 IPv6 address for ISP customers depending on size of network
  - /56 contain 256 of /64 IPv6 network segments
  - /64 contain 64456 of /64 IPv6 network segments