

Deployment with Dual-Stack Lite (DS-Lite) and lesson learned about CPEs on IPv6 network

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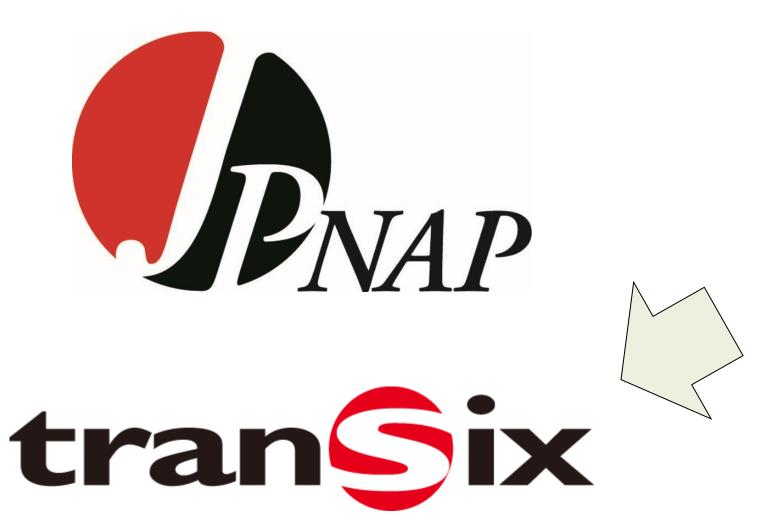
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March 2015 at APRICOT-APAN2015





The Services of Internet Multifeed





transix

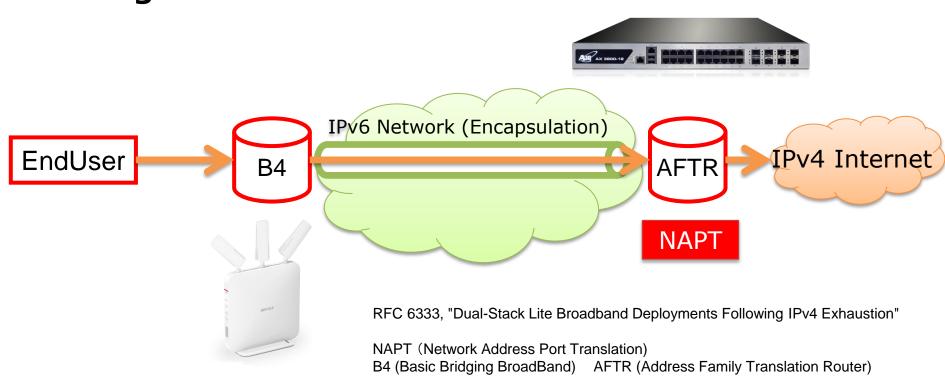
- IPv6 IPoE (IP over Ethernet) on NTT East & West Flet's Hikari Next
- VNE (Virtual Network Enabler)
- IPv4 over IPv6 service started since October 2014





Dual-Stack Lite (DS-Lite)

- The IPv4 over IPv6 service is based on DS-Lite
- AFTR is ready on transix network
- End users (or ISPs) need to prepare B4 CPE for using DS-Lite





- We need to take care of both:
 - DHCPv6/PD (Prefix Delegation)
 - RA (Router Advertisement)

- How CPEs in Japan work with IPv6 and DS-Lite?
 - Buffalo WXR-1900DHP
- * Based on investigation as of February 2015

- IIJ SEIL
- Huawei WS325
- YAMAHA NVR500
- Cisco 1812J



- For DHCPv6/PD (Prefix Delegation)
 - IPv6 and DS-Lite: both work well with the CPEs

- For RA (Router Advertisement)
 - DS-Lite works well with the CPEs
 - Variety of configuration for IPv6
 - IPv6 path through / ND proxy
 - Custom configuration necessary for filtering

AFTR address setting: Hostname / IP address



Research on DS-Lite deployment

* All information based on Web news and manuals online

- ISPs with DS-Lite
 - Greece: Forthnet (2014/6)
 - Poland: Orange Polska (2015/1)
 - Germany

- CPEs with DS-Lite
 - D-Link, Huawei, TP-Link, Sitecom, AVM, NEC
 - OpenWrt

We are happy to share and exchange information for deployment with DS-Lite



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