ISP IPv6 Deployment Scenarios in Broadband Access Networks

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Goals:

- Cover different broadband technologies (Cable, DSL, Ethernet & Wireless)
- Provide detailed information on native IPv6 deployment issues as well as coexistence with IPv4
- Present existing scenarios as well as possible scenarios
- Gap analysis

Updates:

- Went through 3 revisions before getting accepted as IETF WG item.

- IPv6 in Cable networks for management of devices – Time Warner/Comcast (section 6.2)

- Providing QoS when traffic is encrypted end-to-end, using IPv6 Header fields (added in all QoS sections)

- Bulk provisioning of subscribers with dedicated prefixes (updated Gap Analysis section, point "I")

Updates (cont'd):

- Security in WLAN networks (updated section 9.4)
- Updated point "C" in Gap Analysis section, DSL RBE based approach
- Other editorial changes/corrections

Outstanding Issues:

- IGP selection (Section 4.2, point "B")

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Next Steps

- Feedback on adding a section on "Emerging Broadband Technologies" like MAC Forced Forwarding, PLC etc.

- Solicit feedback on combining sections (Multicast, Network Management, QoS & Security) or keeping them separate for completeness.

- Suggestions on how to make it more useful.

- Did we miss anything?