Advanced Requirements for IPv6 Customer Edge Routers

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v6ops Working Group

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Updates since Maastricht…

• Recap: The Phase I IPv6 CE Router document that is in the RFC Editor Queue supports a single router in the home.

• The bis/Phase II document extends the operational scenario to two routers in the home connected back-to-back (LAN of one router is connected to WAN of the other router).

• These clarifications and routed topology have been added to the bis document.
Updates since Maastricht

• Document also reorganized to describe individual Advanced features and requirements were added to each feature section.
• Requirements for transition technologies such as DS-Lite and 6rd are described in more detail.
• Also added a new section on Transition Technology Coexistence and its implications for address acquisition and routing.
Issues to discuss

• Prefix delegation (PD) in the LAN and its implications for DNS and ULA’s.
• Routed topology in home.
• Multi-homed support.

• Problem: Assuming the current specific two-router topology in this document can lead to the development of solutions for features listed above. However some solutions do not work for PD and routing for a generic graphed routed topology with multi-homed WAN or LAN.

• Should we address a generic graphed routed topology in the home LAN? If we need to, then the solutions we develop may be more complex.
Questions/Comments?