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?