Enterprise Multihoming using Provider-Assigned Addresses without Network Prefix Translation: Requirements and Solution

draft-ietf-rtgwg-enterprise-pa-multihoming-00

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Previously on this topic (IETF9[67])

Q: How to send packets to the correct uplink (BCP38)?

A: Source Address Dependent Routing (SADR)

NO NAT!

Q: How to implement policies?

Q: How to react to link failure and recovery?

A: Influence source address & next-hop selection on hosts

(Click here for IETF96 slide deck)

Changes Made Since Adoption

- Intended status changed: Standard -> Informational
- Clarification text added re: what needs to be standardized
  - No further changes in host behaviour required
  - While the generic solution relies on SADR support at least on first-hop and edge router, in some cases less flexible solution could be implemented w/o SADR
- More details on why DHCPv6 is not suitable
- DNS split horizon scenario clarified

Changes to Be Made

- Discuss the role of other protocols (MPTCP/QUIC/etc)
  - Operators control the network, not hosts
  - Network provides services hosts may choose to use
  - Long tail of 'old' hosts
  - The goal is to provide tactical solution which works for hosts supporting existing standards

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QUESTIONS/COMMENTS?