Conditional Router Advertisements for Enterprise PA Multihoming
draft-ietf-v6ops-conditional-ras-00
Jen Linkova, Massimiliano Stucchi, IETF100, Nov 2017
Problems with PA Multihoming

Q: How to send packets to the correct uplink (BCP38)?
Q: How to implement policies?
Q: How to react to links failure/recovery?

WITHOUT NAT!
IETF96, July 2016

“Enterprise Multihoming using Provider-Assigned Addresses without Network Prefix Translation: Requirements and Solution” I-D(*)

- attempts to define a complete solution to the problem;
- relies on SADR and the default address selection Rule 5.5
  - “Prefer addresses in a prefix advertised by the next-hop.”

(*) IETF96 v6ops slides
Conditional Router Advertisements

- Tactical solution for any clients (w/o Rule 5.5 support)
- Setting preferred lifetime in RA PIO based on the network topology
  - “Active” ISP uplinks: non-zero preferred lifetime
  - Non-operational ISP uplinks: preferred lifetime = 0
- More details (IETF99 slides):
Main Changes since WG Adoption

- Clarifying that the trigger changes preferred lifetime value for all subsequent RAs (not just one RA)
- All uplinks are down => all prefixes deprecated
- Reference to the L-13 requirement (RFC7084) added
- Solution Limitations clarified
Call to Community

- Do you find it useful?
- Would you like to see it implemented?
- Would you like to deploy it?

TALK TO ME!
What’s Next?

Any feedback?

Next Step?
QUESTION?
ANSWERS?