

# Conditional Router Advertisements

for

## Enterprise PA Multihoming

[draft-ietf-v6ops-conditional-ras-00](#)

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# 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<sup>(\*)</sup>

- 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):

<https://datatracker.ietf.org/meeting/99/materials/slides-99-v60-ps-sessa-conditional-router-advertisements/>

# 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?**