

IPv6 Host to Router Load Sharing

<draft-hinden-ipv6-host-load-sharing-01.txt>

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MOTIVATION

- VRRP for IPv6 allows hosts to send to multiple routers running VRRP
 - Routers (running VRRP) with backup each other
- ND includes procedures to select a default router when sending to a new destination
 - ND doesn't require hosts to distribute traffic when there is more than one default routers
 - Using single default is allowed
 - Allows round robin selection

CHANGE TO ND SPECIFICATION

- Bullet 1) in section 6.3.6 "Default Router Selection" [ND] is replaced with the following:
 - 1) Routers that are reachable or probably reachable (i.e., in any state other than INCOMPLETE) SHOULD be preferred over routers whose reachability is unknown or suspect (i.e., in the INCOMPLETE state, or for which no Neighbor Cache entry exists). **An implementation SHOULD pick routers from the default router list in random order** while making sure it always returns a reachable or a probably reachable router when one is available.

NEXT STEPS

- Make working group draft?
 - Ready to advance to PS?
- Combine with “Default Router Preferences and More-Specific Routes in RAs”
 - <draft-ietf-ipngwg-router-selection-00>
 - Use mechanism with routers of equal priority

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