

Default Router Preferences and More-Specific Routes in RAs

draft-ietf-ipv6-router-selection-01

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What is this about?

- An OPTIONAL extension to Neighbor Discovery.
- Puts extra information in RAs.
 - Preference for the default router.
 - More-specific routes, with lifetimes and preferences.
- Helps hosts pick a router for off-link destinations.
 - Especially useful for multi-homed hosts.

Recent Changes

- Probing unreachable routers.
- Load sharing among equivalent routers.

Probing Unreachable Routers

- When choosing an otherwise less-preferred router over an otherwise more-preferred unreachable router...
 - The host SHOULD probe the unreachable router with a Neighbor Solicit.
 - This probing MUST be rate-limited, to at most one probe per minute.
- So the host will notice when the unreachable router is available and use it.

Load-Sharing

- From Bob Hinden's draft.
- When choosing among equivalent routers, choose randomly.
- Destination Cache Entry ensures traffic to a single destination takes a consistent path.

Next Steps

- Progress to Proposed Standard?
- Ready for WG Last Call?

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