IPv6 Hop-by-Hop Options Processing Procedures

<draft-ietf-6man-hbh-processing-06>

Bob Hinden

Gorry Fairhurst

March 2023

IETF 116

Overview

- Changes from -04 to -05 draft

- Changes from -05 to-06 draft

- Next Steps

Changes -04 to -05 draft

Editorial:

- Made a definition for "Full Forwarding Rate" !

- Noted ***potential reordering*** when forwarded over different processing paths.

- "Nodes **SHOULD process** the Hop-by-Hop Option header. If the node does not process the Hop-by-Hop Option header, it **MUST forward the packet normally**."

- "Straight forward to process. That is, new Hop-by-Hop options **SHOULD be designed** to ensure the node can process the options at the full forwarding rate (e.g., on the router's Fast Path)."

- Editorial improvements by editors and others.

Changes -05 to -06 draft

Editorial:

- Added REF to RFC6564 (discussed in RFC8200).
- Fixed references.

Usefulness of HBH Options

- Some paths do support HBH Options.
- However, many currently drop packets with a HBH EH
- Limiting the size of the EH improves traversal.
- draft-ietf-6man-hbh-processing would seem to help.

See IEPG talks at IETF-115, IETF-116 for more details

Next Steps

- EH Limits drafts should continue to define *total EH limits*

- We did not see more comments on HBH Processing

- WGLC?

QUESTIONS / COMMENTS?

https://github.com/ietf-6man/hbh-processing/issues