

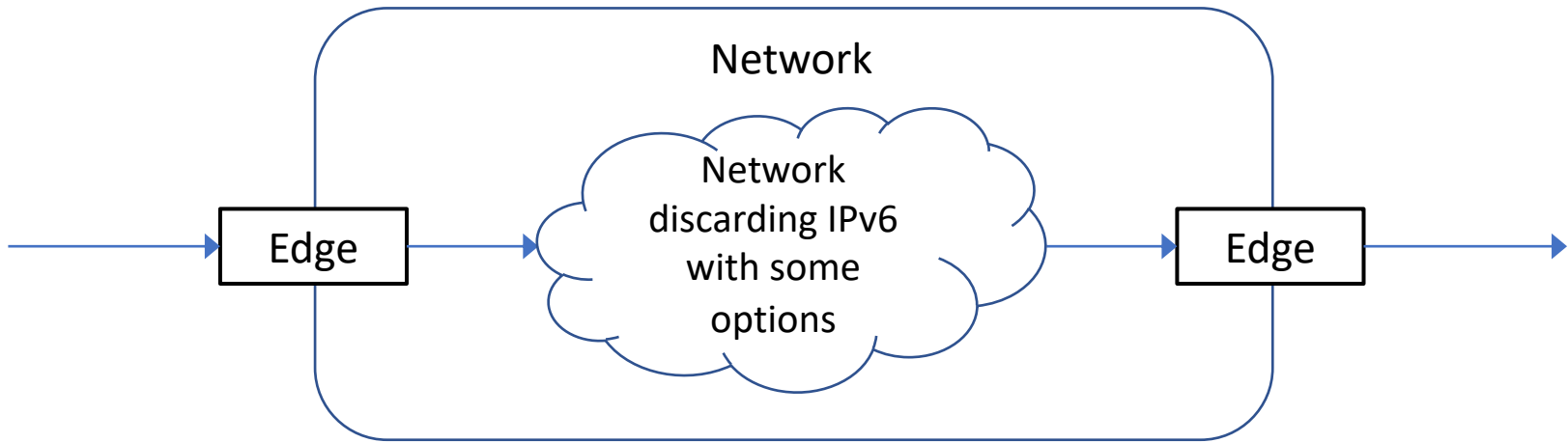
Hiding IPv6 Hop-by-Hop Options

draft-eastlake-6man-hide-options

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Scenario

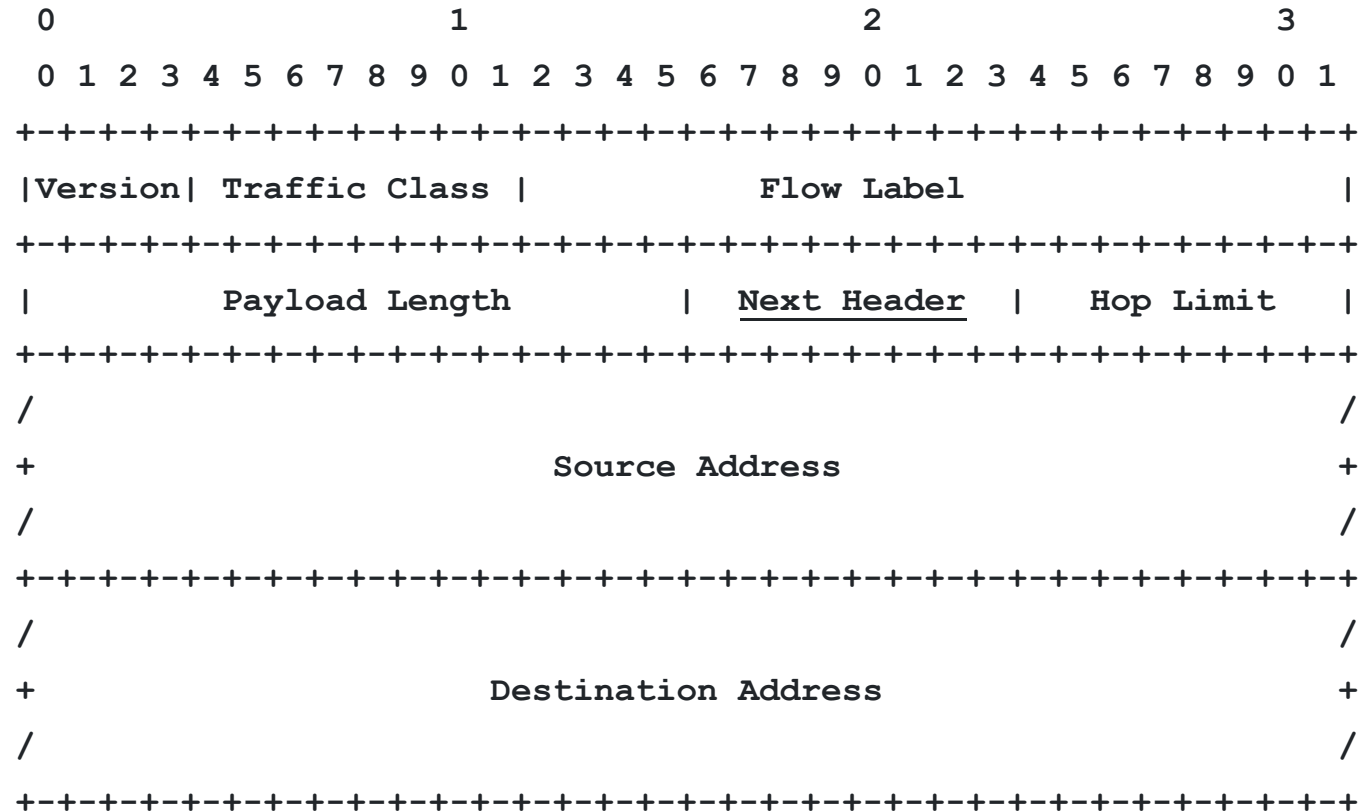
- Packets have a significant chance of being discarded in some network (perhaps the global Internet) if they have IPv6 hop-by-hop options.



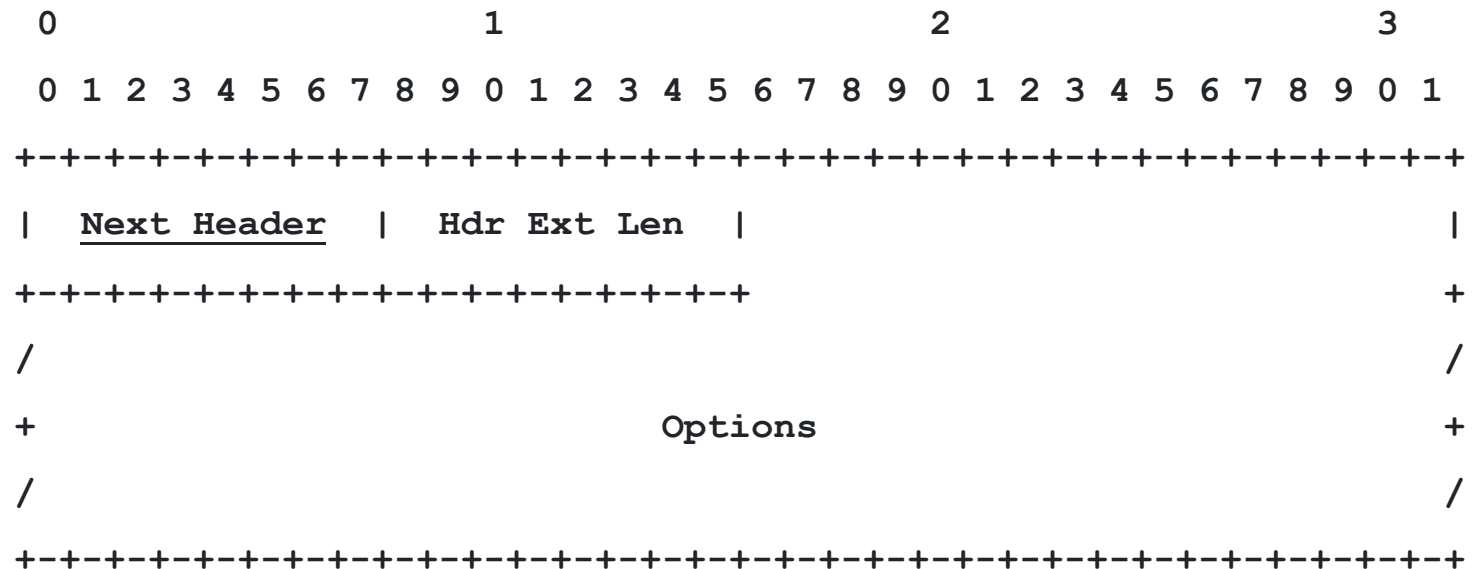
Assumptions

- Generally assuming the following:
 - There is a cooperating destination or destinations
 - Best Effort service is satisfactory

IPv6 Header



IPv6 Header



- Next Header = 0 indicates Hop-by-Hop options

An Elegant Solution

- Simply replace the 0 next header in the IPv6 header with TBD, a new “opaque” IP protocol number, before the problematic part of the network and switch it back to zero after that part of the network.
- The packet change is a trivial and reversible change to one byte which does not change packet size!

Looking For

- Comments on draft
- Implementers
- Dispatch as appropriate.

END