



# The Future of The IPv6 HBH Extension Header

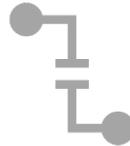
Fred Baker, Ron Bonica, Bob Hinden, Ole Troan

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# History



**The HBH extension header was specified by RFC 1882 (1995), and RFC 2460 (1998)**



**The Router Alert option was specified in RFC 2711 (1999)**

Unfortunate first application of the HBH extension header

Many implementations punt packets containing the Router Alert option to the control plane, causing the Router Alert to become a DoS vector

Many application punt all packets containing an HBH extension header to the control plane, causing the HBH extension header to become a DoS vector



**RFC 8200 Obsoletes RFC 2460**

While [RFC2460] required that all nodes must examine and process the Hop-by-Hop Options header, it is now expected that nodes along a packet's delivery path only examine and process the Hop-by-Hop Options header if explicitly configured to do so.

Does the current specification satisfy the need for IPv6 Hop-by-hop extensibility?

Can we expect the current situation to improve without any changes?

# Questions For This Session

- Do we want to proceed with rehabilitation of the HBH Option Header?
- Do we want to take some other action
  - Deprecate the HBH Option?
- Do we need to reexamine currently defined HBH options?
  - Do we want to deprecate selected HBH options?
- What work / documents need to progress to make this happen?