



IPv6 Extension Headers

draft-ietf-6man-exthdr-02.txt

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What happened?

- › The draft consisted of three separate but related parts
 - a) A consistent format for extension headers
 - b) A single IP protocol number allocation for saving protocol number space
 - c) A set of bits that specify drop/error behavior
- › Since the last IETF it has become clear that there is no consensus to keep b) and c) in the document
 - We have removed b) and c) from the draft

What is the preferred mechanism?

- › WG participants also raised concerns that new extension headers
 - Will break some deployed silicon
 - Are not suitable for incremental deployment
- › Because of this the draft will **NOT RECOMMEND** using extension headers
 - It will direct implementers to consider using destination options instead

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Applicability Statement

- › A new applicability statement has been added
- “...implementations **SHOULD use destination options as the preferred mechanism** for encoding optional destination information, and use a new extension header only if destination options do not satisfy their needs. The request for creation of a new IPv6 extension header **MUST** be accompanied by an specific explanation of why destination options could not be used to convey this information.”

Way forward

- › We have addressed all comments received on the mailing list and minimized the draft to the bare basics
- › What about the stuff we removed?
 - Does anyone still care about them. Please speak up if you do.
- › Otherwise, the authors believe that the document will be ready for WGLC after one minor editorial change
 - John Leslie argued that the term TLV is not relevant in this document. We will agree to a new wording and make this change



ERICSSON

Backup Slide: Standard header format

› For all new extension headers

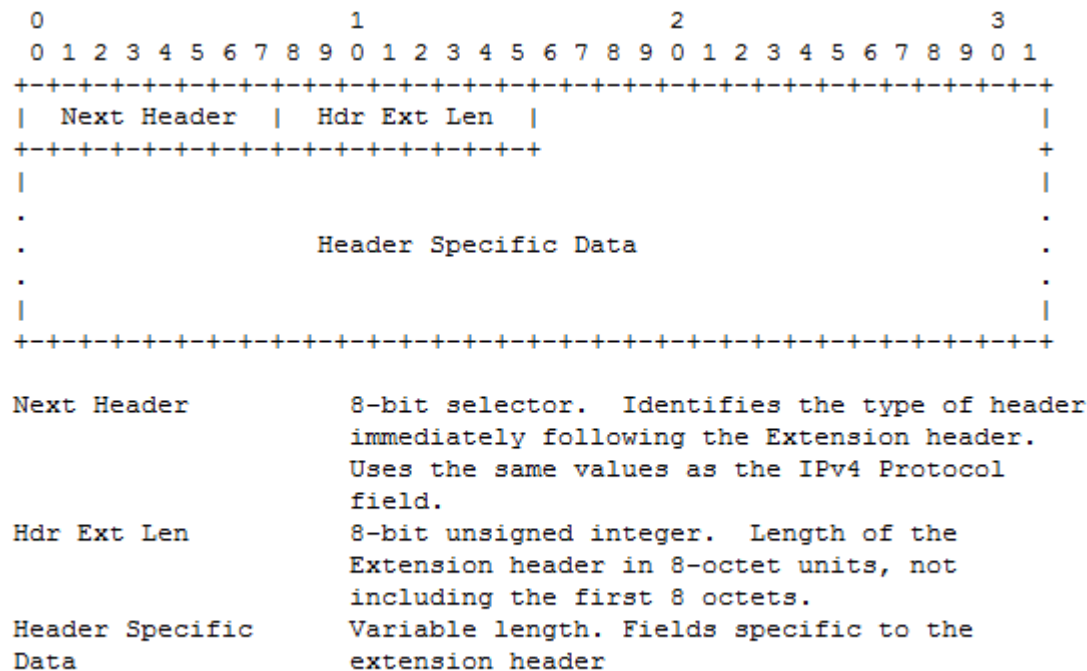


Figure 1: Extension header layout