

IPv6 Support for Generic Routing Encapsulation (GRE)

Draft-pignataro-intarea-gre-ipv6

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Problem Statement

- RFC 2784 does not specify GRE procedures for IPv6
- Let's fix that!

GRE Header

- Checksum Present
 - Sender SHOULD set Checksum present to 0
 - Receiver MUST accept values of 0 and 1.
 - If Checksum Present is 1
 - Receiver MUST use to calculate length
 - Receiver MUST not validate checksum
- If payload is IPv6
 - Payload Type is 0x86DD

IPv6 Delivery Header

- MAY contain extension headers
- MUST NOT contain destination options
- Next Header is 47
 - On IPv6 header if no extensions
 - Or on final extension header
- GRE ingress interface should execute PMTUD procedures or limit size to 1280 octets

Ask

- Adopt as WG item