

# **Security and Interoperability Implications of Oversized IPv6 Header Chains**

**(draft-gont-6man-oversized-header-chain)**

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# Problem statement

- Specs-wise, IPv6 first-fragments may fail to contain the entire IPv6 header chain
  - Lots of Extension Headers/Options, and/or,
  - Small fragment sizes
- They prevent stateless filtering
  - which is currently possible with IPv4
- They may also break NAT64
- It is likely that IPv6 firewalls will drop them
  - Do they, already?

# **draft-gont-6man-oversized-header-chain**

- Discusses security and interoperability problems arising from these packets
- Requires IPv6 packets to contain the entire IPv6 header chain in the first 1280 bytes

# Moving forward

- Comments?
- Adopt this document as a 6man wg item?

# Feedback?

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