

Security Implications of IPv6 Options of Type 10xxxxxx

(draft-gont-6man-ipv6-smurf-amplifier-02)

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Overview

- IPv6 mitigates all IP-layer amplification vectors
- ...**except** for that based on unsupported options of type 10xxxxxx
- Both RFC2460 and RFC4443 require that:
 - “Nodes receiving a packet with an unsupported option of type 10xxxxxx must respond with an ICMPv6 Parameter Problem message even if the packet was destined to a multicast address”

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- Updates RFC2460 and RFC4443 such that multicasted packets never elicit ICMPv6 errors

Moving forward

- Adopt as wg item?