Updated Specification of the IPv4 ID Field

draft-ietf-intarea-ipv4-id-update-06
IETF 85 - Atlanta

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Quick review

• **ID already** isn’t unique as currently spec’d
  – Recognize existing practice

• **Limit IPv4 ID use to fragmentation**
  – Update 791, 1122, 2003 accordingly
  – Remind users of the impact of using fragmentation

• **Summary of 06 changes**
  – Posted to list 10/9/12
Key changes

• MSL changed to MDL (maximum datagram lifetime)
  – Avoids tying to MSL and TCP
  – Uses the term used in both RFC 791 and 1122
• Clarifies where 120 seconds comes from
  – RFC1122, reassembly timeout
• Updated security section ref to AH
  – As per secdir review
• Added security section discussion of midbox impact
  – As per secdir review
• Added section 5.1 on the impact on legacy devices
  – As per IESG feedback
Other changes

• Editing as per IESG feedback
  – Some wordsmithing
  – Some sections shifted/renumbered

• Drops additional requirements
  – Implied by remaining requirements:
    • No need for “MUST NOT use ID for de-dup”
    • No need for “MUST NOT use ID for diagnostics”
  – Beyond original doc focus
    • No longer “MUST ignore overlapping fragments”
    • No longer “MUST NOT change in transit”
Status

• Waiting for IESG review based on revision