A Fragmentation Strategy for GRE

draft-bonica-intarea-gre-mtu-02

Ron Bonica

Carlos Pignataro

IETF 87 - Berlin, Germany

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Motivation

- Document deployed GRE Fragmentation Strategy
  - Implementers are aware of BCP
  - Users understand how implementations work

- Scope
  - Point-to-point GRE Only
  - Does not update [RFC2784]

Default Fragmentation Strategy

- GRE Ingress do not fragment the delivery header:
  - Received non-fragmentable big packet -> signal to the source
  - Received fragmentable big packet -> fragment the inner packet
- On IPv4 delivery header, always DF=1
- Use when network does not block ICMPs, and payload and tunnel source support PMTUD.

Non-Default Fragmentation Strategy

- On IPv4 delivery header, copy DF from the inner packet
- Use when network blocks ICMPs

Documents Status

- Review on list, looking forward to more WG feedback
- Request that Intarea WG adopts the document

Thank You !

{Ron; Carlos}