IKEv2 Link Maximum Atomic Packet and Packet Too Big Notification Extension

Looking for a **TRANSPORT** perspective to handle fragmentation of the IPsec traffic

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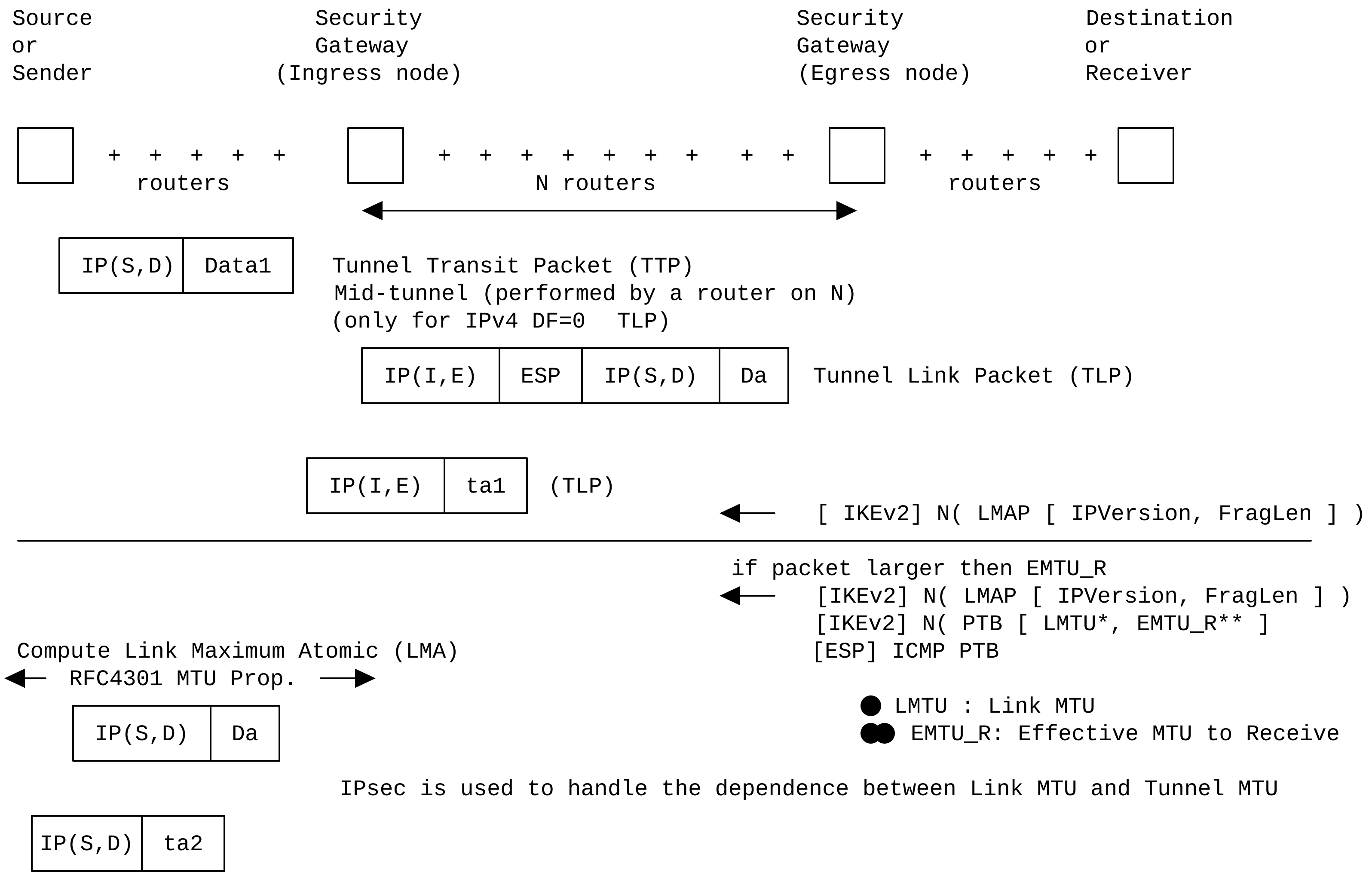
draft-liu-ipsecme-ikev2-mtu-dect

Sending IPVersion, FragLen via IKEv2



Why not setting DF=1 ?

- some routers do not send ICMPv4 PTB
- ICMPv4 message are often blocked and do not reach the security gateway
- with ESP over UDP, the ICMPv4 does not provide the SPI that identify the IPsec SA with the fragmentation

In short:

- We do not manage the IPv4 transit network
- Aside from IPsec packet, no other packets reach the Security Gateways from the transit network

The IPsecme is looking for transport feedback:

1. Are there any potential negative impacts associated with this protocol?
2. Are there existing mechanisms that should be utilized instead to prevent fragmentation ?

Any feedback on tsvwg / ipsecme mailing list are appreciated.

Thanks!