

# IPv6 Tunnel MTU Configuration

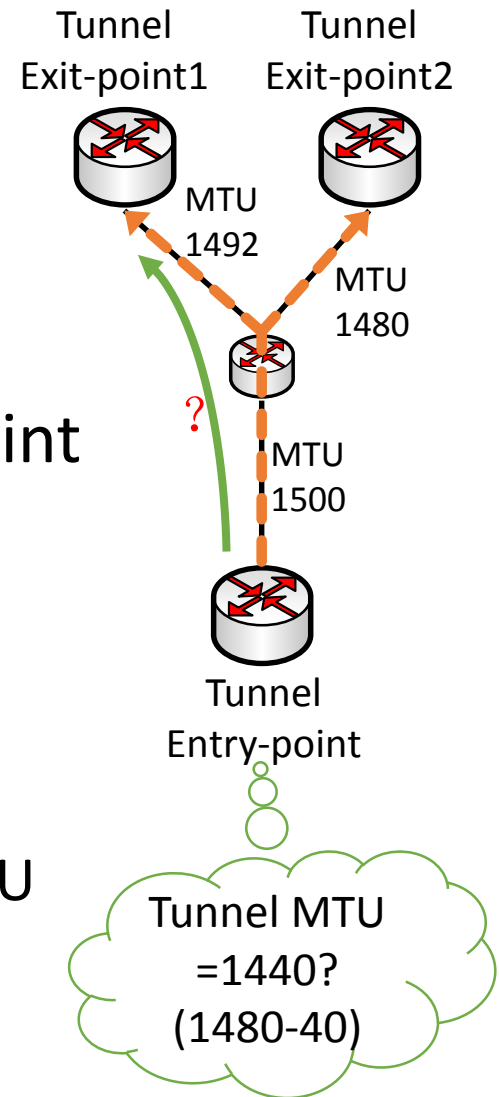
draft-liu-6man-tunnel-mtu-config-00

Y. Cui, C. Liu

IETF 88<sup>th</sup>

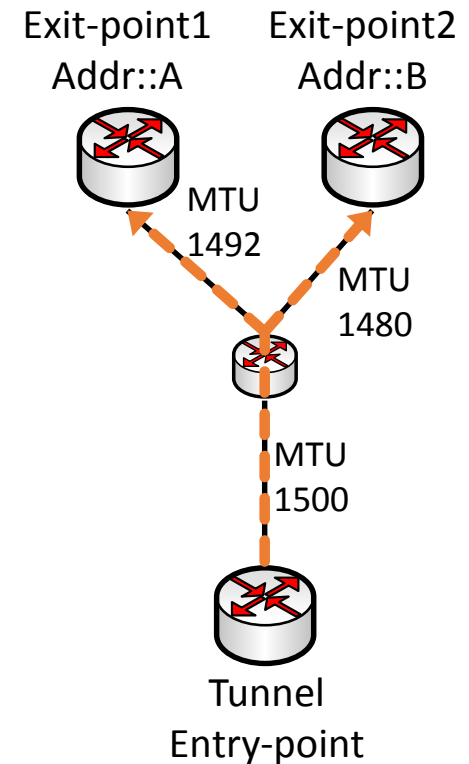
# Problem Statement

- Unspecific points of IPv6 Tunnel MTU [[RFC2473](#)]:
- What's tunnel MTU for point-to-multipoint tunnel?
  - Is Tunnel MTU a fixed value?
  - Change with exit-point?
- No non-PMTUD method defined
  - RFC2473 requires PMTUD to set tunnel MTU
  - DS-Lite and MAP-E suggest non-PMTUD, MTU managed by ISP **conflict with RFC2473?**
  - Each software method deals with MTU issues



# Configure Tunnel MTU

- Two methods:
- (1) Dynamic Configuration
  - Tunnel nodes maintain tunnel MTU table
  - Before encapsulating, look up the table for tunnel MTU value
  - Update the table through PMTUD
- (2) Static Configuration
  - Operator manages MTU in whole domain
  - Set tunnel MTU to minimum “safe” value
  - When can’t decide: use  $1280-40=1240$
- (Update RFC2473)



Exit-point	IPv6 PMTU	tunnel MTU
Addr::A	1492	1452
Addr::B	1480	1440
default	1500	1460

Tunnel MTU Table

Example<sub>3</sub>

# Next Steps

- Comments are welcome
  - Do you think this is useful?
  - Should we make an update to RFC2473?