

# Identifying Addresses of IPv6 Tunnel Packets at Tunnel Exit-point

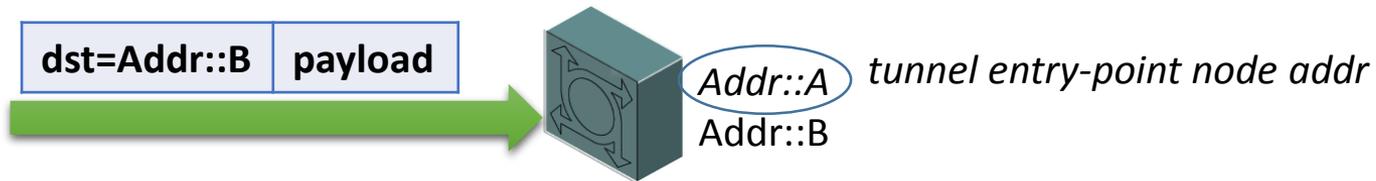
draft-liu-6man-ident-tunnel-packet-addr-00

J. Wu, C. Liu, Y. Cui

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# Problem Statement

- When tunnel node receives a tunnel packet, if dest addr is not the *tunnel entry-point node address*, whether accept or not?
  - In some implementation (e.g. Linux), No
  - According to section 3.3 of RFC2473, Yes
  - May cause packet loss / security problem



- When running multiple tunnel instances, how to decide which tunnel process the packet?
  - e.g. A node runs both point-to-point tunnel A and point-to-multipoint tunnel B
  - Tunnel packets to tunnel A should not be accepted by tunnel B
- => Address Identification is necessary

# A possible solution

- Tunnel node SHOULD identify received tunnel packets, to decide which tunnel instance(s) to accept the packet, or discard the packet
- A tunnel packet is passed to a tunnel instance when all the 3-tuples match:

Tunnel Packet	Tunnel instance
dest addr	whitelist of local addr
src addr	whitelist of remote addr
next header	protocol type

} IPv6 addresses/prefixes

- If no matches, return an ICMPv6 error

# Next Steps

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