The SRv6 END.DTM Endpoint Behavior

draft-bonica-spring-srv6-end-dtm

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Introduction

• This draft introduces a new SRv6 endpoint behavior, called END.DTM
  • Supports inter-working between SRv6 and SR-MPLS
  • Contains a function plus arguments

• The function causes the processing node to
  • Decapsulate a packet (i.e., remove an IPv6 header and its extensions)
  • Impose an SR-MPLS label stack
  • Forward the packet

• The arguments determine MPLS-label stack contents and anything that might be encoded in the MPLS-label stack
Use-Case

• Nodes 1 and 2 are SRv6 capable
• Nodes 4 and 5 are SR-MPLS capable
• Node 3 processes END.DTM
  • SRv6 capable
  • SR-MPLS capable
Processing

• If Segments Left is greater than zero
  • Discard packet and send ICMP message to source

• When processing upper-layer header
  • Decapsulate the packet
  • Push the SR-MPLS label stack that is associated with the END.DTM arguments
  • Set the MPLS Traffic Class and TTL values to reflect the Traffic Class and Hop count values received in the IPv6 header
  • Submit the packet to the MPLS FIB lookup for transmission to the new destination
Next Steps

• WG Review
• Call for adoption