SR-TE Path Midpoint Restoration

draft-hu-spring-segment-routing-proxy-forwarding-14

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Introduction

Thank people below for their comments and suggestions
• Bruno Decraene
• Acee Lindem
• Peter Psenak
• Jeff Tantsura
• Les Ginsberg

Updates to Previous Versions
➢ Title: SR-TE Path Midpoint Restoration
➢ Using: restoration of routes after failure
  ▪ Traffic continues to neighbor of failed node
  ▪ Neighbor as PLR/proxy sends traffic around failure
➢ Some editorial changes
Overview

P detects N failure

B IGP converges, deletes route to N

B installs new SR-TE path to C

Time

P as PLR: FRR to C

Traffic drops

Restores route to N:
P advertises its proxy capability for N’s SID
B uses route to P for N’s SID after N fails

P as proxy for N to send traffic to C, + for N to process binding segments
This draft vs Another

A: ietf-spring-segment-protection-sr-te-paths (Informational)
T: draft-hu-spring-segment-routing-proxy-forwarding

A
• Using anycast SID to protect node failure and EPE-SID
• Configuring route hold timer to protect node SID on failed node

T
• Using proxy to protect node failure and BSID on failed node
• Restoring route via proxy P’s advertising proxy capability to protect node SID on failed node

Protection may not work if some do not support it
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Next Steps

➢ Welcome Comments
➢ Request for Adoption