SR-TE Path Midpoint Protection

draft-hu-spring-segment-routing-proxy-forwarding-12

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Updates to Previous Versions

• Updated Section 1 “Introduction”
• Some Editorial Changes

ietf-spring-segment-protection-sr-te-paths  
  (Informational, adopted recently)

➢ Node supporting it uses old paths to forward traffic for a configured time after failure
➢ Protection may not work if some do not support it

Our draft improves this and others
Uses a capability flag for a node
  - indicates it is capable to forward traffic on behalf of its failed neighbors.
  - When node X fails, other nodes send traffic for X’s node-SID to the nearest capable X’s neighbor.

Supports the protection of the node with binding segments.
Next Steps

- Request for Adoption
Overview of Mid-Point Protection

P detects N failure

B IGP converges, deletes route to N

B installs new SR-TE path to C

P as PLR: FRR to C

Traffic drops

Traffic recovers

P advertises its proxy forwarding capability for N’s SID

B uses route to P for N’s after N fails for a given time

P proxy for N to C