SR-TE Path Midpoint Protection

draft-hu-spring-segment-routing-proxy-forwarding-13
Overview

Updates to Previous Versions

- Updated Section 1 “Introduction”
- Some Editorial Changes

<table>
<thead>
<tr>
<th>N’s SID</th>
<th>C’s SID</th>
<th>PKT</th>
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A —— B —— P —— N —— C

- P detects N failure
- B IGP converges, deletes route to N
- B installs new SR-TE path to C

Time

- as PLR: FRR to C
- Traffic drops
- Traffic recovers
- P ad
dresses its proxy capability for N’s SID
- B uses route to P for N’s SID after N fails
- P proxy for N to C

ietf-spring-segment-protection-sr-te-paths (Informational)

- Node supporting it uses old route to N for a configured time after failure
- Protection may not work if some do not support it

Our draft improves this and others
Improvements

➢ 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 SID to the nearest capable X’s neighbor.

Protection may work if some do not support it

➢ Protects binding segments on a node when the node fails.
Next Steps

Comments
Adoption