SRv6 Path Egress Protection

draft-ietf-rtgwg-srv6-egress-protection-01
Introduction

• Get Review on SRv6 Mirror SID behavior from SPRING

• Comments from SPRING in general
SR Egress Protection Mechanism

- Mirror SID behavior is same as End.DT6 SID
- End.DT6 uses one Table, Mirror uses another Table
- One SID for End.DT6, another SID for Mirror

IGP advertises information for SRv6 egress protection

1. Config mirror SID to protect PEA
2. PEB creates FIB entry for PEA w/ SIDa to CE2
3. P1 H.Encaps w/ mirror SID, send pkt to PEB when PEA fails
4. PEB gets FIB (Table) for PEA using mirror SID and sends pkt to CE2 using Table and SIDa.

PEA: Egress
PEB: Backup Egress for PEA

SIDa: A3:1::B100
Mirror Sid: A4:1::3 protect SIDa: A3:1::/64 on PEA
FIB (Table) for node PEA:
Entry: SIDa: A3:1::B100 ➔ CE2

End.DT6 behavior:
S05. Set packet's associated FIB table to T
S06. Submit packet to FIB table T lookup and transmission to new destination
Next Steps

- Welcome comments