SRv6 Path Egress Protection

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Overview

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Updates to Previous Version (to address comments)

- Updated description on backup path
- Added text on slow convergence of non-PLR

SRv6 Path Egress Protection Mechanism
SRv6 Path Egress Protection Mechanism: Preparation

1. Configure Mirror SID to protect PEA.
2. PEB creates FIB entry for PEA with SIDa to CE2.
3. IGP advertises information <PEB, PEA, Mirror SID> for SRv6 egress protection.
4. P1 as PLR computes backup path and creates FIB entry for protection.

PEA: Egress
PEB: Backup Egress for PEA
P1 as PLR

Mirror SID: A4:1:4A::3 protect PEA
FIB for node PEA
Entry: SIDa: A3:1::B100 \(\rightarrow\) CE2
SRv6 Path Egress Protection Mechanism: Action on Failure

PEA: Egress
PEB: Backup Egress for PEA
P1 as PLR

FIB for node PEA
Entry: SIDa: A3:1::B100 ➔ CE2

1. P1 H.Encaps PKT w/Mirror SID, send PKT to PEB when PEA fails

2. PEB obtains Mirror SID, decaps PKT, get entry in FIB for PEA using Mirror SID and SIDa, sends PKT to CE2
Next Steps

- Comments