

PCE for Path Ingress Protections

draft-chen-pce-sr-ingress-protection-06

Huaimo Chen, Mike McBride(Futurewei)
Mehmet Toy, Gyan S. Mishra (Verizon Inc.)
Aijun Wang (China Telecom)
Zhenqiang Li, Yisong Liu (China Mobile)
Boris Khasanov (Yandex LLC)
Lei Liu (Fujitsu)
Xufeng Liu (Volta Networks)

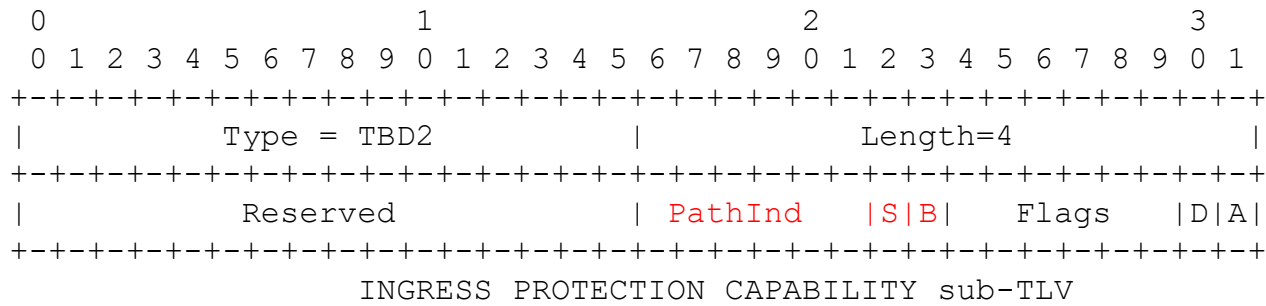
IETF 112

Overview

- Merged 2 Ingress Protection drafts
 - pce-sr-ingress-protection
 - pce-bier-te-ingress-protect
- PCE for ingress protection of 2 types of paths:
 - SR paths
 - BIER-TE paths
- Foundation for protecting ingress of different types of paths

Capability for Ingress Protection /w Backup Ingress

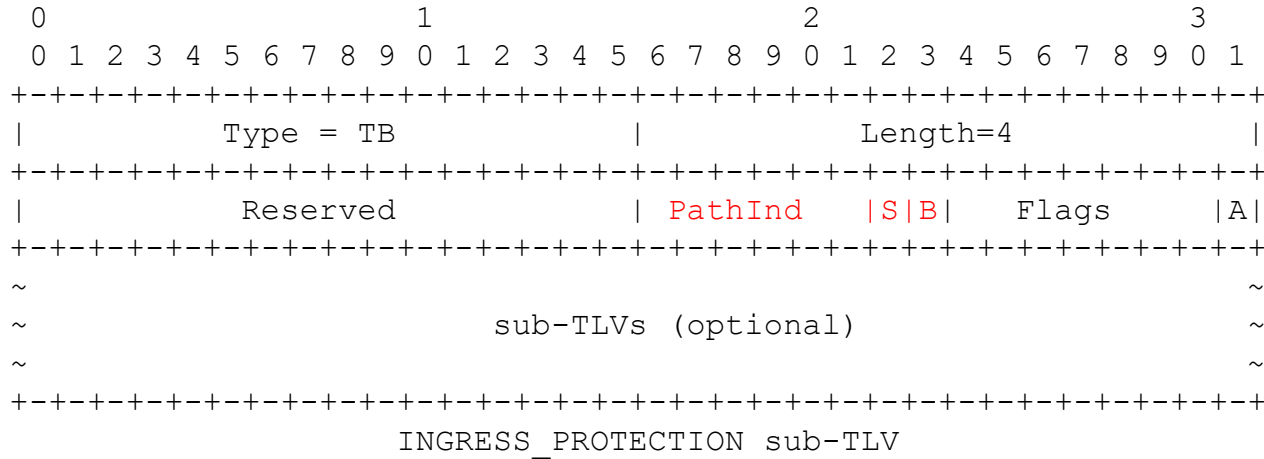
When PCE and PCC running on a backup ingress establish a PCEP session, they exchange their capabilities of protecting ingress for different types of paths.



- PathInd: 1 octet. Indicators for the types of paths whose ingress protections are supported. Two indicators are defined.
- o S : S = 1 indicating that ingress protection of SR path is supported.
 - o B : B = 1 indicating that ingress protection of BIER-TE path is supported.

Extensions for Backup Ingress

When PCE sends PCC PCInitiate message for initiating a backup path to protect the primary ingress node of a primary path, the message contains:



PathInd: 1 octet. Indicator for the type of path whose ingress is protected. Two indicators are defined.

- o S : S = 1 indicating ingress protection of a SR path.
- o B : B = 1 indicating ingress protection of a BIER-TE path.

Next Step

- Comments
- Request for adoption