

Label Switched Path (LSP) Ping for IPv6 Pseudowire FECs

draft-chen-mpls-ipv6-pw-lsp-ping-01.txt

Mach Chen (mach.chen@huawei.com)

Ping Pan (ppan@infinera.com)

Carlos Pignataro (cpignata@cisco.com)

Rajiv Asati (rajiva@cisco.com)

Problem Statement

- **Three PW related FEC sub-TLVs defined (RFC4379)**
 - "FEC 128" Pseudowire (Deprecated), "FEC 128" Pseudowire and "FEC 129" Pseudowire,
 - Each contains the destination/source addresses of the target LDP session
 - Currently, only IPv4 target LDP session is covered
 - Can not be used when IPv6 target LDP session is used

Solutions

- **Extensions to RFC4379,**
 - **Add two new sub-TLVs**
 - IPv6 "FEC 128" Pseudowire
 - IPv6 "FEC 129" Pseudowire
 - No "FEC 128" Pseudowire (Deprecated) defined for IPv6
 - **No more new procedures introduced**

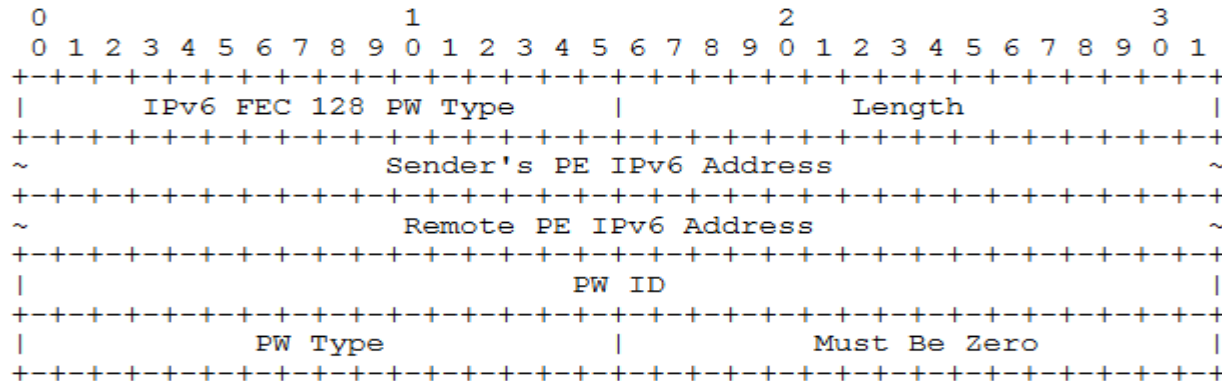


Figure 1: IPv6 FEC 128 Pseudowire

Solutions (cont.)

- **Updates to RFC 4379,**

- **Change names and titles of existing sub-TLVs**

From:

- "FEC 128" Pseudowire (Deprecated)
- "FEC 128" Pseudowire
- "FEC 129" Pseudowire

To:

- IPv4 "FEC 128" Pseudowire (Deprecated)
- IPv4 "FEC 128" Pseudowire
- IPv4 "FEC 129" Pseudowire

- When referring to the PE addresses

OLD

- Sender's PE Address
- Remote PE Address

New

- Sender's PE IPv4 Address
- Remote PE IPv4 Address

Next steps

- Comments?
- WG document?