

LDP Extensions for MPLS-TP PW Proactive OAM Configuration

[*draft-zhang-mpls-tp-pw-oam-config-05*](#)

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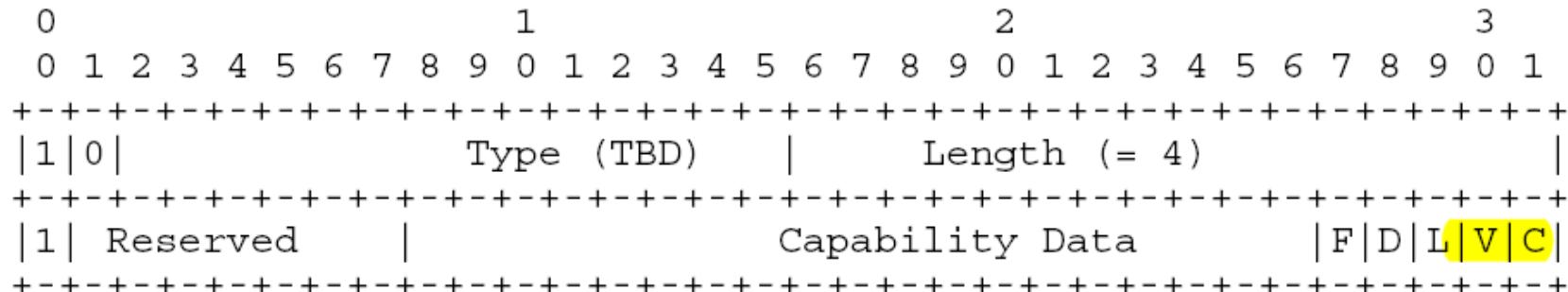
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Update

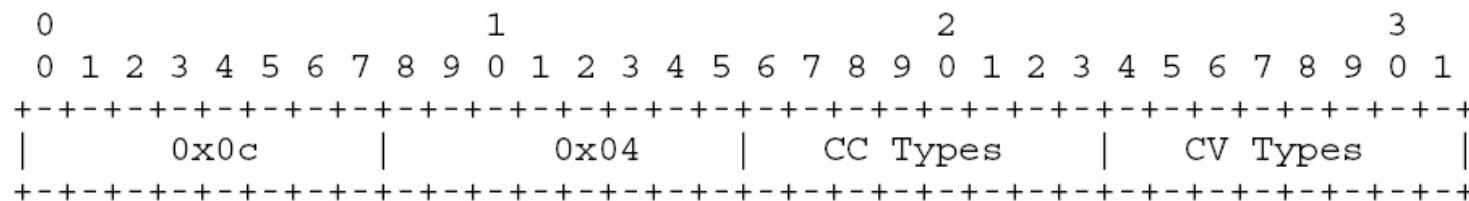
❑ Add two bits “C” “V” in the MPLS-TP PW OAM Capability TLV



- ✓ “C”: CC supported [\[CC-CV-RDI\]](#)
- ✓ “V”: CV supported [\[CC-CV-RDI\]](#)

❑ The MPLS-TP PW OAM capability negotiation is done by the Initialization message exchanges

- ✓ There are only two bits unused in the CV field of the VCCV parameter ID



Bit 0 (0x01) - ICMP Ping [\[RFC5085\]](#)
Bit 1 (0x02) - LSP Ping

Bit 2 (0x04) BFD IP/UDP-encapsulated, for PW Fault Detection only

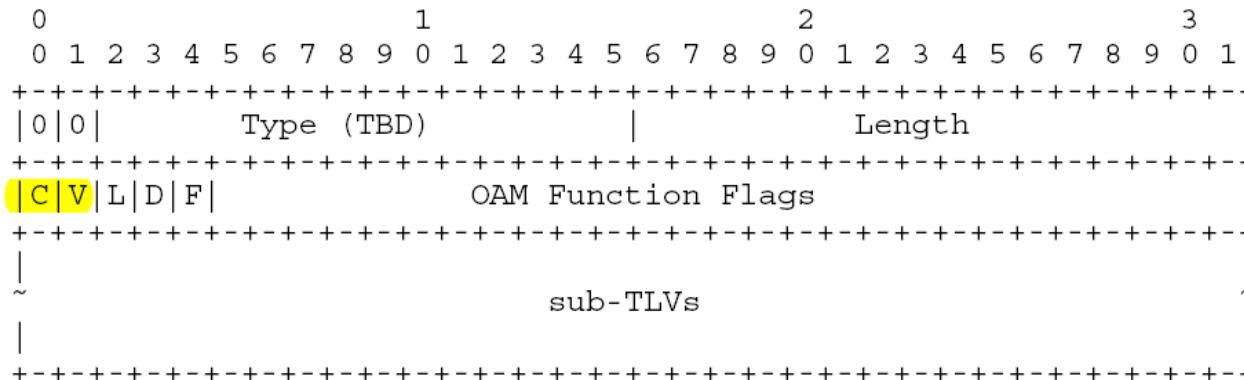
Bit 3 (0x08) BFD IP/UDP-encapsulated, for PW Fault Detection and AC/PW Fault Status Signaling [\[RFC5885\]](#)

Bit 4 (0x10) BFD PW-ACH-encapsulated, for PW Fault Detection only

Bit 5 (0x20) BFD PW-ACH-encapsulated, for PW Fault Detection and AC/PW Fault Status Signaling

Backward compatibility

- If both the two T-PEs can support the CC or CV function defined in [\[CC-CV-RDI\]](#), the BFD configuration procedure is adopted.
 - ✓ The C or V flag of MPLS-TP PW OAM Capability TLV MUST be set
 - ✓ The C or V flag of MPLS-TP PW OAM Configuration TLV MAY be set
 - ✓ The BFD Configuration sub-TLV MAY be carried
- If at least one of the two T-PEs do not support the CC or CV operation, [\[RFC5885\]](#) will be performed.
 - ✓ The C and V flags of MPLS-TP PW OAM Configuration TLV MUST NOT be set
 - ✓ The BFD Configuration sub-TLV MUST NOT be carried
- **The described behavior ensures full compatibility with the existing implementations.**
 - ✓ Thanks Greg、Matthew、Luca for the discussion
- The revised MPLS-TP PW OAM Configuration TLV
 - ✓ More compact [\[draft-ietf-mpls-lsp-ping-mpls-tp-oam-conf\]](#)



Next Steps

- Comments/Feedback?
- Keep in parallel with the related work done in MPLS-TP
 - [draft-ietf-ccamp-rsvp-te-mpls-tp-oam-ext](#)
 - [draft-ietf-mpls-lsp-ping-mpls-tp-oam-conf](#)

Adopted as a WG document?