

# IETF-88

Draft status: draft-ryoogray-mpls-tp-psc-itu

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# Purpose of the draft

- RFC 6378 defines Protection State Coordination (PSC)
  - Inconsistent in some respects with RFC 4427 (*Recovery (Protection and Restoration) Terminology for Generalized Multi-Protocol Label Switching (GMPLS)*)
  - Inconsistent with many operator expectations
- A number of drafts proposed changes/extensions to RFC 6378
  - draft-cdh-mpls-tp-psc-non-revertive
  - draft-dj-mpls-tp-exer-psc
  - draft-rhd-mpls-tp-psc-priority
  - draft-rhd-mpls-tp-psc-sd
- This draft is the combination of those 4 drafts

# Purpose of the combined draft

- Extends capabilities defined in RFC 6378 to include modified behaviors:
  - relative priorities (section 4)
  - non-revertive behavior (section 5)
  - Manual Switch to Working (MS-W) support (section 6)
  - protection against Signal Degrade (SD – section 7)
  - Exercise command support (section 8)
- These represent new capabilities and comprise a new mode for MPLS-TP linear protection that is operationally compatible with APS
- This results in two MPLS-TP linear protection modes: PSC mode (per RFC 6378) and APS (compatible) mode

# Capabilities and Modes

- Updates RFC 6378 to include a new Capability type TLV and describes interworking/backward compatibility (section 9)
- Describes operations (section 10) and state-machine behavior (section 11) for using PSC in APS mode

# Next Steps

- Working with WG Chair(s) and ADs to refine wording and phraseology relative to use the terms “update”, “extend” and “modify”:
  - Consistent use within the draft
  - Use consistently with meaning relative to RFCs
- Adopt as a WG draft
- Gain reviews and comments from WG participants
- Update as necessary (based on WG consensus)
- Get to WG last call, IESG/IETF review and publish as a standards track RFC