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 \textit{(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