draft-shawam-pwe3-ms-pw-protection-00.txt

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Scope of current linear protection in RFC6387 (PSC) and RFC7271 (ITU-T mode) is protection for statically provisioned MPLS-TP LSPs
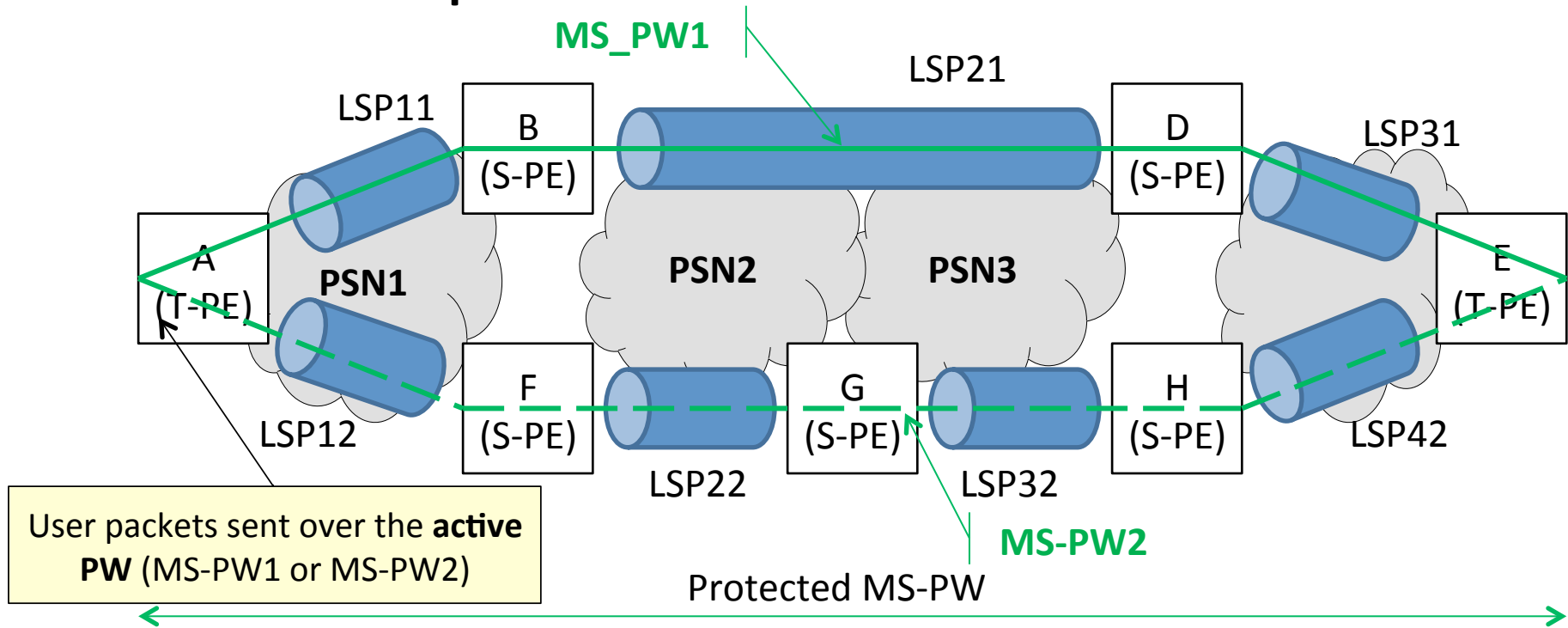
Statically provisioned SS-PW: the end-to-end LSP tunnel is used for its protection

Statically provisioned MS-PW: the section LSP tunnels can provide protection, however the intermediate S-PEs are unprotected and will be a single point of failure

Solution: draft-shawam-pwe3-ms-pw-protection

This is an extension of the standard applicability
of RFC6378 and RFC7271
to coordinate MS-PW protection switching
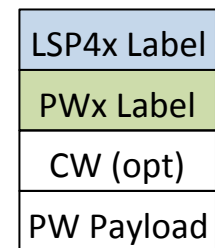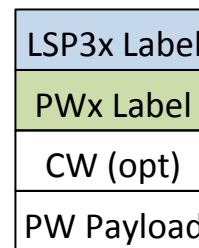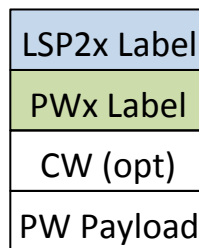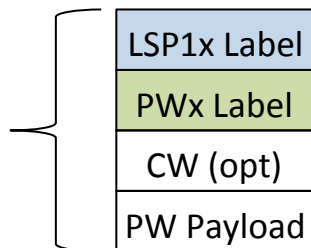
MS-PW trail protection – Reference Network

MS_PW1

LSP21

LSP11

B (S-PE)

D (S-PE)

LSP31

A (T-PE)

PSN1

PSN2

PSN3

E (T-PE)

LSP12

F (S-PE)

G (S-PE)

H (S-PE)

LSP42

LSP22

LSP32

MS-PW2

User packets sent over the **active PW** (MS-PW1 or MS-PW2)

Protected MS-PW

Transport LSP1x   Transport LSP2x   Transport LSP3x   Transport LSP4x

User data Packets	LSP1x Label		LSP2x Label		LSP3x Label		LSP4x Label
	PWx Label		PWx Label		PWx Label		PWx Label
	CW (opt)		CW (opt)		CW (opt)		CW (opt)
	PW Payload		PW Payload		PW Payload		PW Payload

Going Forward

- Presented to introduce draft to the WG
- Please read and comment to the list (thanks for those that have already done so)
- Draft will be updated to reflect comments, and then will ask for WG adoption