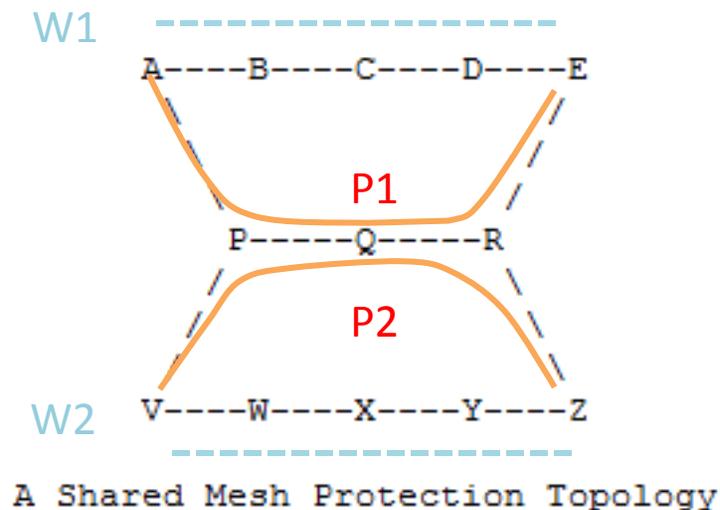


Framework and Requirements for Shared Mesh Protection in MPLS-TP

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What is Shared Mesh Protection (SMP)?



The resources on P-Q-R are shared by multiple working LSP's

Key properties:

1. Setup protecting LSP's ahead of time
2. All protection related information are pre-computed and loaded to the relevant nodes
3. Upon failure, use Linear Protection mechanism in switching-over traffic
4. SMP protocol may be required to coordinate the usage of shared resources

Background

- This is an important function in long-haul transport networks
- Multiple parties have been working on it for a long while
- There existed several solution drafts:
 - draft-allan-spme-smp-fmwk
 - draft-cheung-mpls-tp-mesh-protection-05
 - draft-pan-shared-mesh-protection-04
- Agreed to produce requirements draft and solution draft

Status Update

1. Framework and requirements

[\(draft-weingarten-mpls-smp-requirements\)](#) – Ready for WG adoption

2. SMP Solution draft

Common solution draft will be published very soon. Most likely after the IETF.

Next Steps

1. Requirement document defines requirements in detail
 - Problem definition
 - Requirements
 - Functional components
 - Preemption behavior
 - Restrictions
2. A common solution, which is within the above framework, to be ready for review, soon.
3. Working code and deployments

Summary

- Shared Mesh Protection is an important function in TP-enabled transport networks
- Received comments. Solicit more comments from WG, more importantly, from service providers and end users.
- Poll is underway, support WG adoption of the document