Extensions to RSVP-TE for LSP Ingress Local Protection

draft-ietf-teas-rsvp-ingress-protection-03

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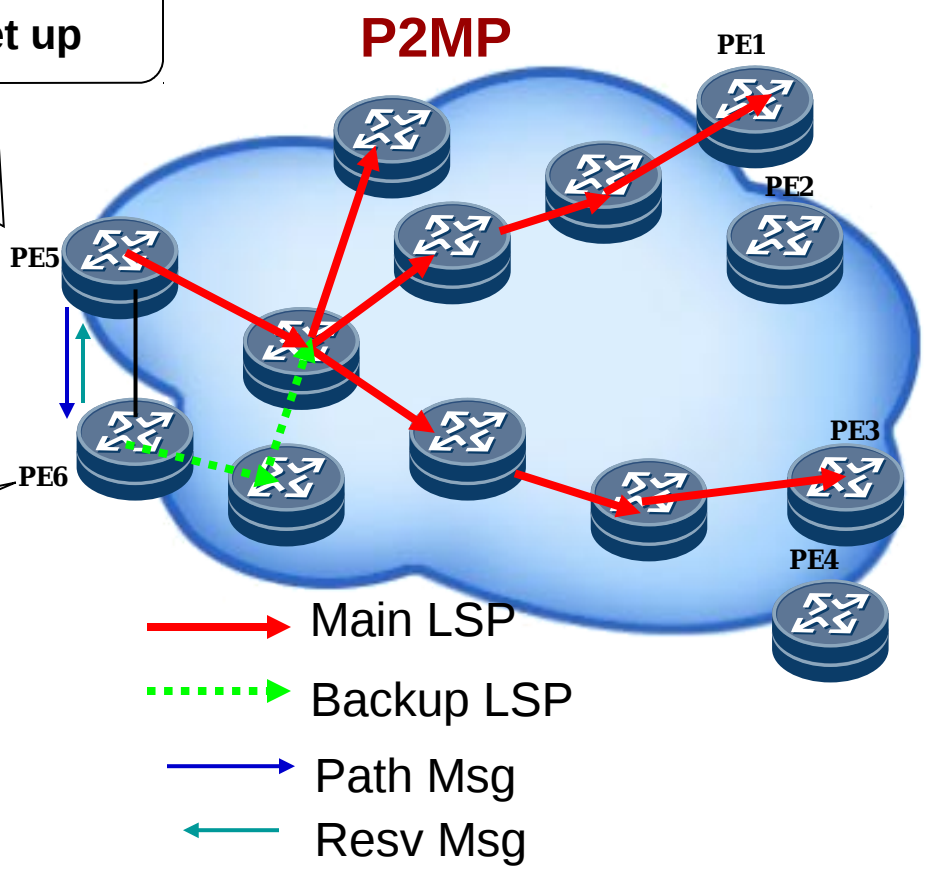
Relay Message Method

Ingress PE5 sends Path w/ ingress-protection to backup ingress PE6 after main LSP set up

PE6 creates backup LSP to protect ingress PE5 of main LSP

Backup ingress PE6 sends ingress PE5 Resv w/ ingress-protection



Proxy-Ingress Method

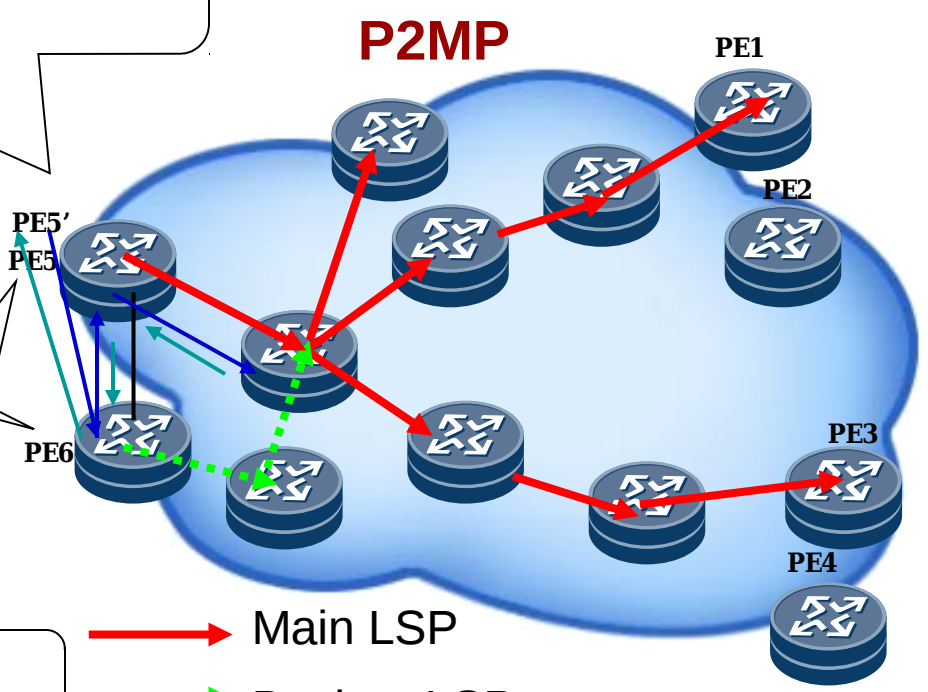
1. Proxy Ingress PE5' sends Path w/ ingress-protection to backup ingress PE6
(3. PE6 sends PE5' Resv w/ ingress-protection)

LSP Path (ERO):
PE5'—PE6—PE5—NHs …

2. PE6 sends Path w/ ingress-protection to PE5
(2. PE5 sends PE6 Resv w/ ingress-protection)

PE6 creates backup LSP to protect ingress PE5 of main LSP using FRR

3. Ingress PE5 sends Path to NHs
(1. NHs send Resv to ingress PE5)



Ingress PE5 :

- Handles backup ingress PE6 failure
- Processes configuration for Proxy-ingress

Relay-Message vs. Proxy-Ingress

_ Item / Method	Primary LSP Depends on Backup Ingress	Config Proxy-Ingress ID	PATH Msg from Backup Ingress to Primary Ingress	RESV Msg from Primary Ingress to Backup Ingress	Reuse Some Existing Functions
Relay-Message	No	No	No	No	Yes-
Proxy-Ingress	Yes-	Yes-	Yes	Yes	Yes

Next Step

- Welcome comments on selecting one method

Relay-Message or Proxy-Ingress?