RSVP-TE Extensions to Establish Associated Bidirectional LSP

CCAMP/MPLS WG, IETF 81th, Quebec

draft-ietf-ccamp-mpls-tp-rsvpte-ext-associated-lsp-01

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Update

- ☐ Describe the signaling procedure more clearly

- ☐ Revision of asymmetric bandwidth LSPs

- ☐ Revision of recovery scenario

Single Sided VS Double Sided

☐ The associated time comparison of two solutions
   ✓ Tp are the time costs of path messages processing

	One sided provisioning LSP1 triggers LSP2	Double sided provisioning
Both LSPs do not exist	2Tp	2Tp
LSP1 exists, LSP2 needs to be established	2Tp	1Tp
LSP1 does not exist, LSP2 has been established	2Tp	1Tp
Both LSP1 and LSP2 exist	2Tp	1Tp

☐ Double sided provisioning is more efficient

Asymmetric bandwidth LSP

☐The complexity brought by asymmetric bandwidth
  ✓ The associated time is not changed

	One sided LSP1 triggers LSP2	Double sided
Both LSPs do not exist	REVERSE_TSPEC object in LSP1's Path Message	REVERSE_TSPEC object in LSP1 and LSP2's Path messages
LSP1 exists, LSP2 needs to be established	REVERSE_TSPEC object in LSP1's Path Message	REVERSE_TSPEC object in LSP1's Path Message
LSP1 does not exist, LSP2 has been established	REVERSE_TSPEC object not needed	REVERSE_TSPEC object in LSP2's Path Message
Both LSP1 and LSP2 exist	REVERSE_TSPEC object not needed	REVERSE_TSPEC object not needed

☐ Single sided provisioning is more simple

Recovery
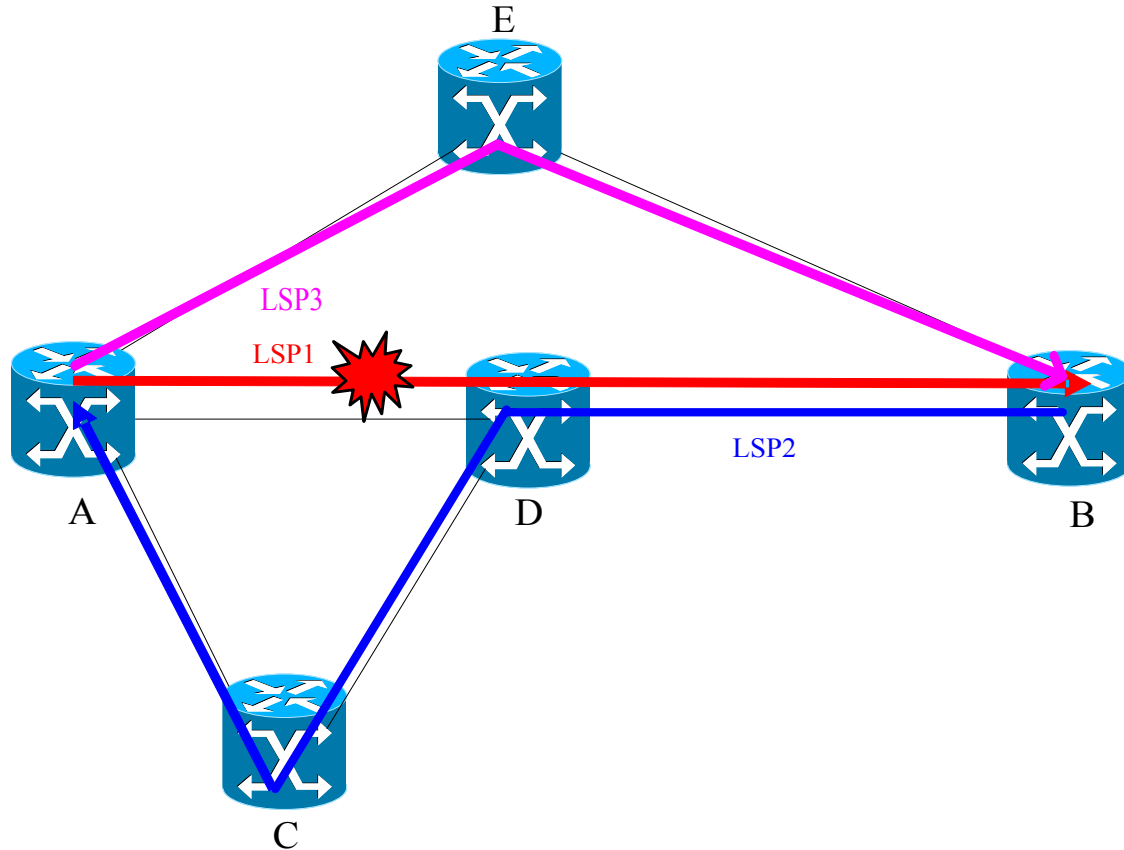
☐ LSP1 and LSP2 are associated together by LSP1's identifier

   ✓ LSP3 is rerouted/refreshed with LSP2's identifier

   ✓ LSP2 is refreshed with LSP2's identifier

☐ LSP1 and LSP2 are associated together by LSP2's identifier

   ✓ LSP3 is rerouted/refreshed with LSP2's identifier

Next Steps

☐ **Updated based on discussion**

  ✓ One sided provisioning or double sided provisioning?

☐ **Comments/Feedback?**

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