RSVP-TE Extensions to Establish Associated Bidirectional LSP

CCAMP WG, IETF 83th, Paris

draft-ietf-ccamp-mpls-tp-rsvpte-ext-associated-lsp-03

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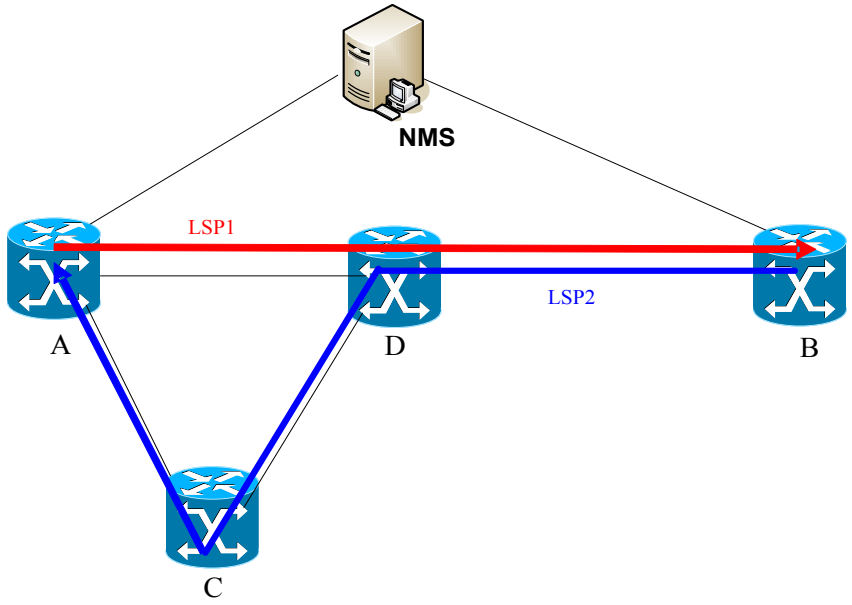
Update from V01 to V02

- REVERSE_LSP object is defined (optional)
  - ✓Used in the initial LSP's Path message , carrying the reverse LSP's control information (single sided provisioning model)
  - ✓Subobjects can be SENDER_TSPEC, ERO, Session_Attribute, Admin Status, Protection Object，LSP_ATTRIBUTE Object…..

Update from V02 to V03

- Two Association Types are redefined
  - ✓Double Sided provisioning
  - ✓ Single Sided Provisioning
- Adding the LSPs teardown procedures

Two Association Types



- Why
  - ✓The processing is different
    - ✓Double Sided Provisioning, LSP1/LSP2 are triggered by NMS
    - ✓ Single Sided provisioning, LSP2 is triggered by LSP1
    - ✓ Node B needs to differentiate the two modes, be triggered to establish LSP2 by LSP1 or waiting for the commands from NMS
  - ✓ The implementation is simple
    - ✓ 64k Association Types are supported
    - ✓ Decision is independent (no need to check the existence of REVERSE_LSP object, which is optional)

LSPs Teardown

- Common Procedures
  - ✓Follows standard procedures defined in RFC3209 and RFC3473
  - ✓The teardown procedures of different directions are independent
    - ✓ PathTear / ResvTear / PathErr with state removal
- Dissimilar Procedures
  - ✓ Double sided provisioning
    - ✓ LSP2 can be existing When LSP1 is deleted
  - ✓ Single sided provisioning (LSP2 is triggered by LSP1)
    - ✓ LSP2 should be deleted when LSP1 is torn down
    - ✓ LSP1 should not be deleted when LSP2 is torn down

Next Steps

- Draft is now stable
- Ready to move forward / LC
- Comments?