RSVP-TE Extensions to Establish Associated Bidirectional LSP

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Fei Zhang  Ruiquan Jing
Fan Yang    Weilian Jiang
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?

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