RSVP-TE Extensions for SRLG Configuration of FA

CCAMP WG, IETF 80th, Prague, Czech Republic

draft-zhang-ccamp-srlg-fa-configuration-02.txt

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Changes from 01.txt

- Reused LSP_REQUIRED_ATTRIBUTES to indicate SRLG collection required

- Extended the ROUTE_RECORD Object for SRLG Collection process

Note: Reuse the existing objects as much as possible

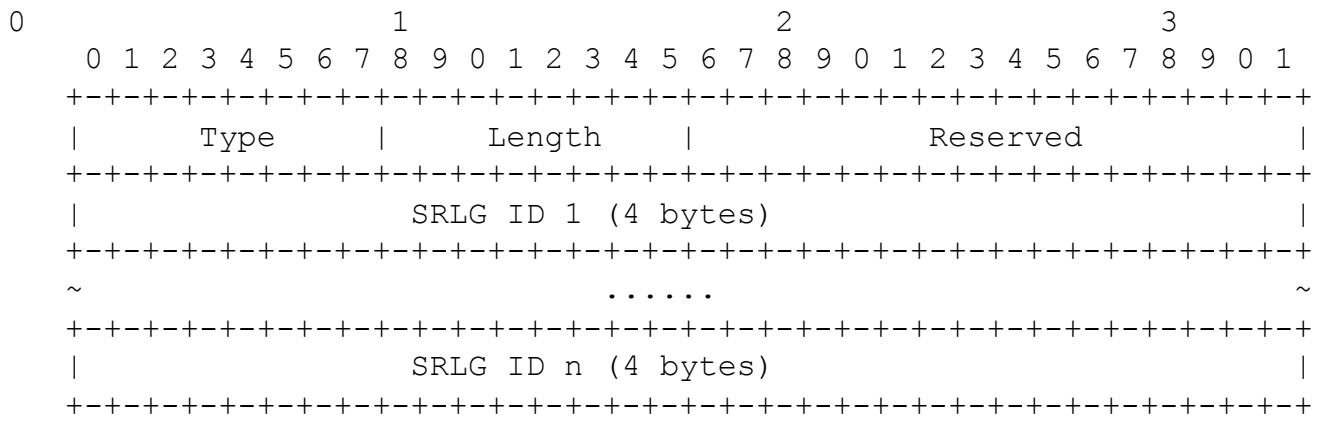
Extension to Attribute Flags TLV

- Comment from Beijing meeting: the flag space in SESSION_ATTRIBUTE is scarce

- A new flag in the Attribute Flags TLV of LSP_REQUIRED_ATTRIBUTES Object is defined for SRLG Collection Indication
  - Bit number: TBD (0)
    - 1: The SRLG information should be collected.
    - 0: No need to collect SRLG information
  - Defining RFC: this I-D
  - Name of bit: SRLG Collection Flag
  - Applicable to a Path message

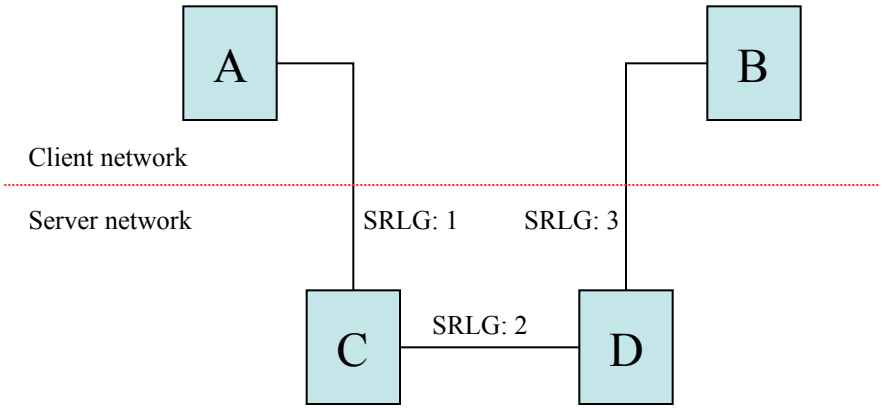
Extension to ROUTE_RECORD Object

- A new sub-object of RRO is defined for SRLG Collection
  - SRLG sub-object



Note: Reuse RRO object rather than defining a new object

Procedures



1. Node A sends a Path message to Node C to set up an LSP with "SRLG Collection Flag" set to indicate SRLG collection desired.
2. During the Path message traversing C/D/B, the SRLG information of the LSP will be collected in the SRLG sub-object in RRO. Node B will get the SRLG information, when the path message gets to the tail end point B.
3. Node B sends a Resv message to D, carrying the collected SRLG in the SRLG sub-object in RRO. After the Resv message traverses D/C/A, Node A will get the SRLG information.

Next Steps

- Adopt it as a WG document
- Refine it based on the feedback from the meeting or mailing list