S-BFD over SRv6

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Background and Motivation

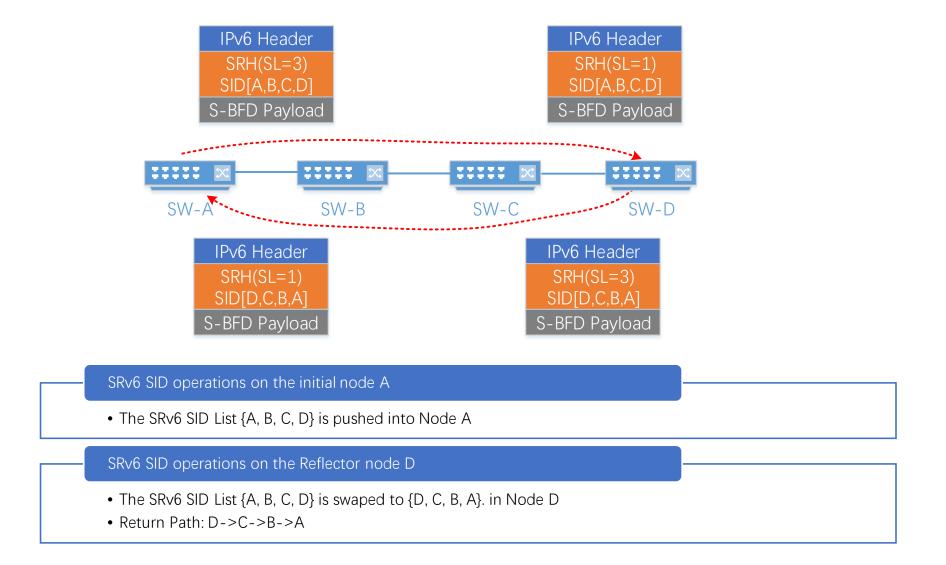
- Bidirectional Forwarding Detection (BFD) can be used to monitor paths between nodes.
- Seamless BFD (S-BFD) provides a simplified mechanism which is suitable for monitoring of paths that are setup dynamically and on a large scale network.
- This draft describes a method to simplify the implementation of S-BFD over SRv6 by using SRH.flag to instruct the S-BFD peer node to do swap operation of SRv6 SID list.

Procedure of S-BFD over SRv6



- Three kinds of Node
 - Init Node:
 - Encapsulate SRH with SID List and SRH.Flag[5]=1;
 - Intermediate Node:
 - If (SID=! MySID)
 - Forwarding
 - Reflector Node:
 - If ((SID== My SID) && (SRH.Flag[5]==1))
 - swap operation of the SRv6 SID list

Procedure of S-BFD over SRv6 (continue)



Conclusion

This Draft proposed a simple S-BFD over SRv6 scheme, include:

New action of the Reflector Node

Swap the SRv6 SID list

Extension of SRH

SRH.Flag[5] is used to trigger the Swap operation

Next Step

- Collect feedback from SPRING
- Comments and discussions in the mailing list
- Seek for collaboration