SFC Path Consistency OA


Ting Ao(ZTE)
Greg Mirsky(ZTE)
Zhonghua Chen(China Mobile)
Theory of Operation in COAM

• With collecting COAM Reply1, COAM Reply2, COAM Reply3 and COAM Reply4, the path of the chain: SF1->SF2->SF3->SF4 is confirmed.

Bangkok, 2018-11
Based on the draft: draft-ietf-sfc-multi-layer-oam

Define a SF information sub-TLV in the COAM Reply Message
  - SPI: The identifier of SFP to which all the SFs in this sub-TLV belong.
  - SF Type: To indicate the type of SF
  - SF ID Type: To indicate new sub-registry SF Identifier Types
  - SF Identifier: An identifier of the SF.
Update from -02

• Comments received from the last presentation
  • Consider the scenario in Load Balance of multiple SFs

• Multiple SFs for load balance
  • Multiple SFs are for load balance, that means that the particular traffic flow will transit only one SF:
    • These SFs have the same Service Function Type, Service Index.
    • We suggest carrying a Flow ID (defined in ietf-sfc-nsh-tlv) in COAM request.
    • SFF receiving the COAM Request with Flow ID will distribute the SFC traffic flow to a given SF according to the Flow ID.

Bangkok, 2018-11
Return Path in SFC OAM


Ting Ao(ZTE)
Greg Mirsky(ZTE)
Zhonghua Chen(China Mobile)
Specified SFP reply mode in SFC OAM

• Motion: For SFC, some SFs is required to be traversed by the reverse traffic.

• Action: Specify a certain SFP as a return path of Echo Reply
  • Define a new TLV: Reply Service Function Path TLV in Echo Request to indicate the specified return SFP.

![Diagram]

- SFC Reply Path Type
- Length
- Reply Service Function Path
- Reply Service Function Path Identifier
- Service Index

Reply SFPID: the identifier of the Reverse SFP
Service Index: Used in Reverse SFP for forwarding

• Echo Reply should use the SFPID and SI as its NSH header
  • If the return SFP cannot be found, the Echo Reply should include "Reply SFP was not found" in Return Code.
Ask for WG adoption?

• We think till now, both drafts have already been ready for WG adoption.
• Any comments, questions are always welcome and greatly appreciated.