

# SFC Path Consistency OAM

# M

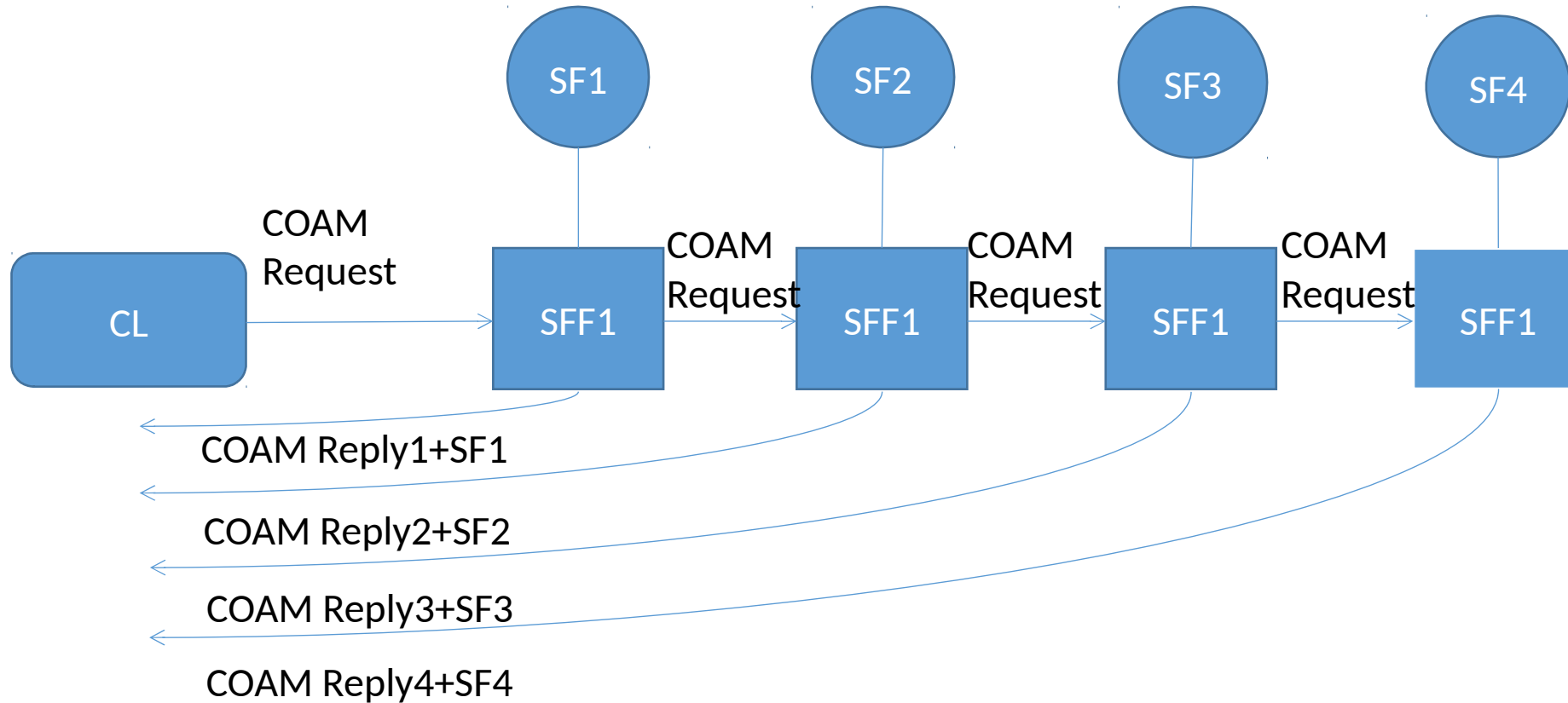
<https://tools.ietf.org/html/draft-ao-sfc-oam-path-consistency-03>

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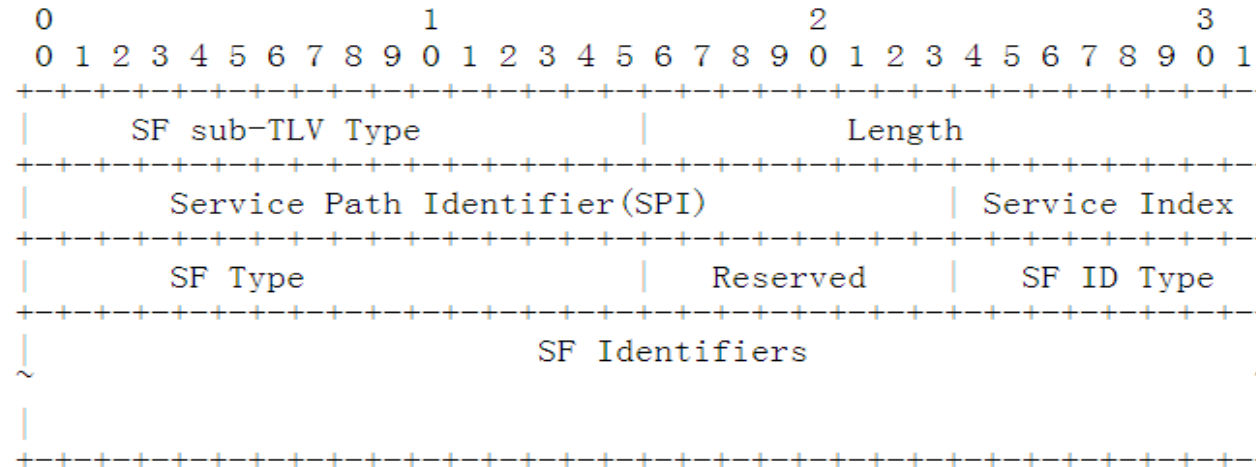
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# Theory of Operation in COAM



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

# Theory of Operation in COAM(Con't)



- 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.

# Return Path in SFC OAM

<https://tools.ietf.org/html/draft-ao-sfc-oam-return-path-specified-02>

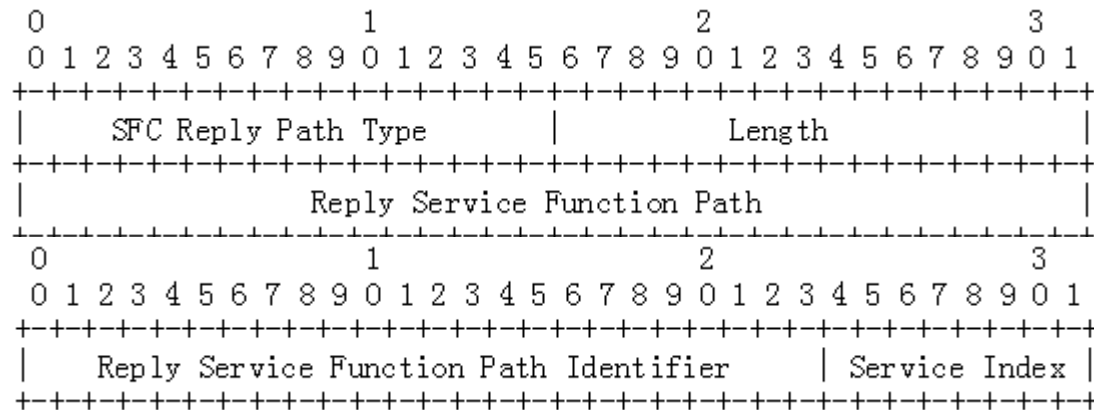
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# Specified SFP reply mode in SFC OAM

- 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.



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.