

SFC Path Consistency OAM

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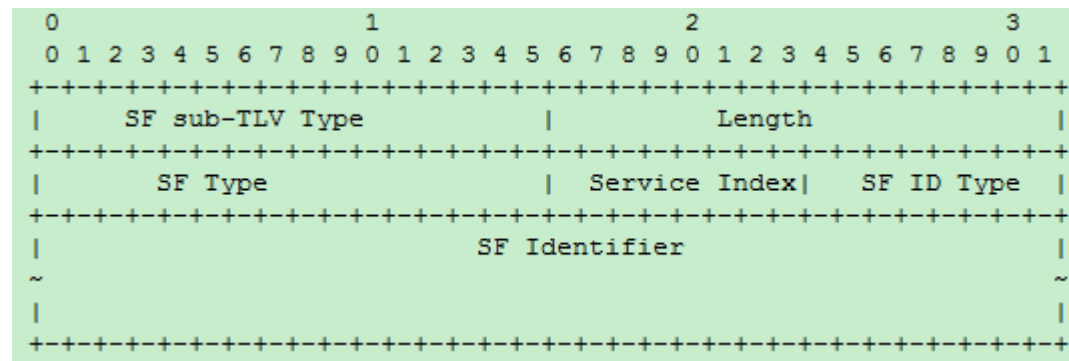
<https://tools.ietf.org/html/draft-ao-sfc-oam-path-consistency-00>

Background

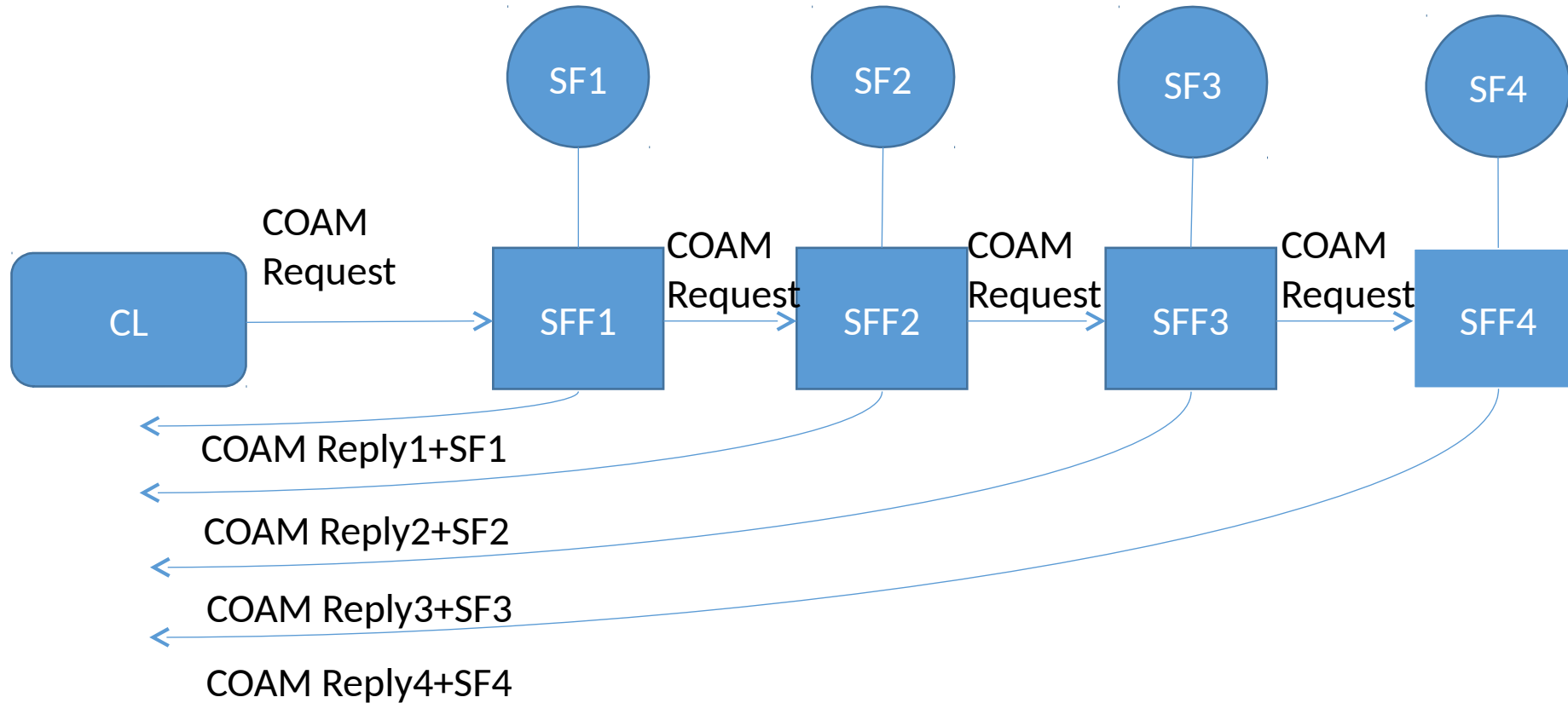
- SFC : A chain with a series of ordered Service Functions.
- SFC OAM: Operation, Administration and Maintenance (OAM) for Service Function Chaining(SFC)
 - OOAM(overlay OAM) is one solution for SFC OAM which is inband OAM
 - <https://tools.ietf.org/html/draft-ooamdt-rtgwg-demand-cc-cv-03>
- Path Consistency: Every SF the packet transmitted is consistent with SFC provision.
- COAM: OAM that can be used to check path consistency.

COAM Messages

- COAM Request: SFP Consistency Echo Request
 - Send from ingress SFF first, and forwarded by every intermediate SFF.
- COAM Reply: SFP Consistency Echo Reply
 - Every SFF receiving the COAM Request, will send back a COAM Reply .
 - The COAM Reply message contains the information of SF that is connecting the SFF as a sub-TLV.



Theory of Operation in COAM



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

Next steps

- Comments, questions always welcome and greatly appreciated
- WG adoption?