SFC Path Consistency OAM

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

• **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 intermediat 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 th e 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?