

Multi-layer Active OAM for SFC Networks

draft-wang-sfc-multi-layer-oam

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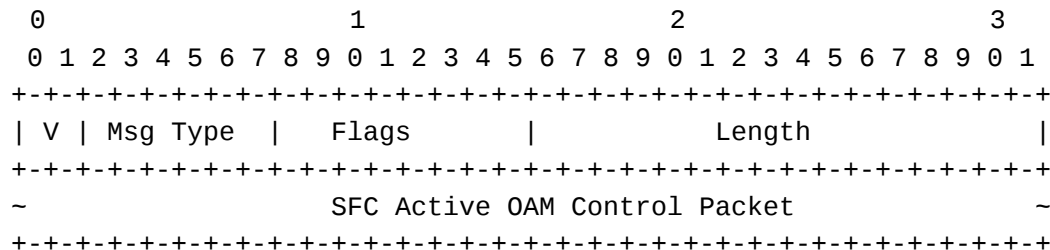
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Active SFC OAM Identification in SFC NSH

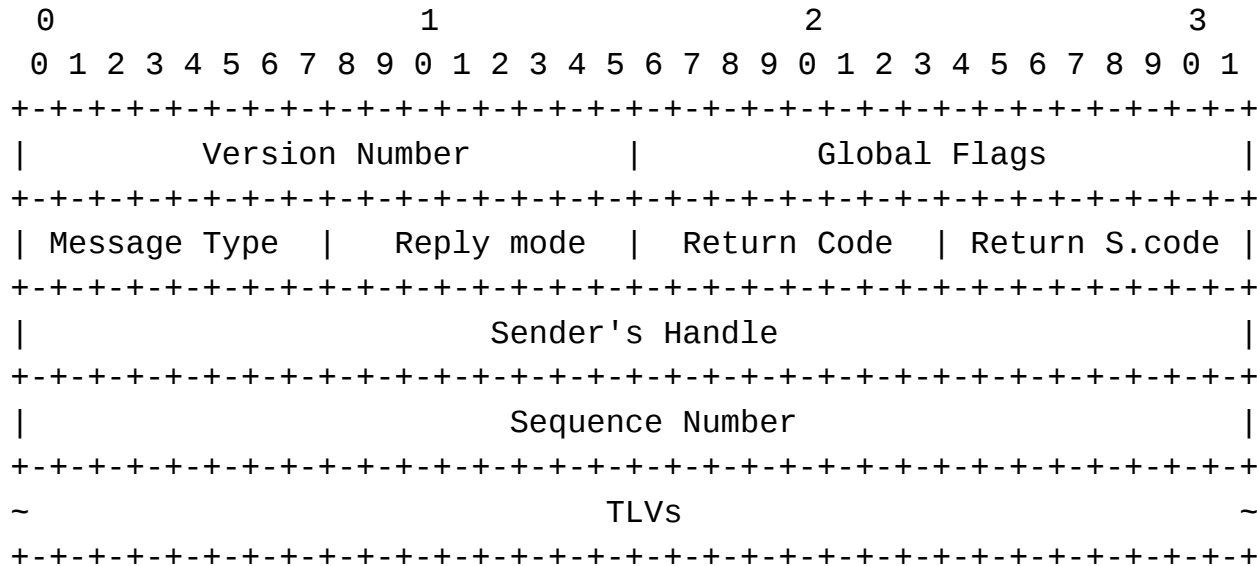
- How to identify active SFC OAM?
 - Define OAM protocol value to be used in the Next Protocol field of SFC NSH
 - Use Next Protocol None as per draft-farrel-sfc-convent
- How to demultiplex active SFC OAM protocols?
 - May use destination UDP port number if IP/UDP encapsulation. But that causes substantial overhead – IP+UDP headers vs. control packet

– Define SFC Active OAM Header:



– Use meta-data encapsulation

SFC Echo Request/Reply



- SFC Echo Request MUST include identity of the sender or of the Echo Reply receiver
 - Use SFC Source TLV
- SFC Echo Reply transmitted over IP network to the IP destination address specified in SFC Source TLV
- Destination UDP port?
 - assign UDP port number as SFC OAM

SFC Echo Request/Reply (cont.)

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Next steps

- Your comments, suggestions, questions always welcome and greatly appreciated
- WG adoption