

Supporting IOAM

Using MPLS Network Actions

draft-ietf-mpls-mna-ioam

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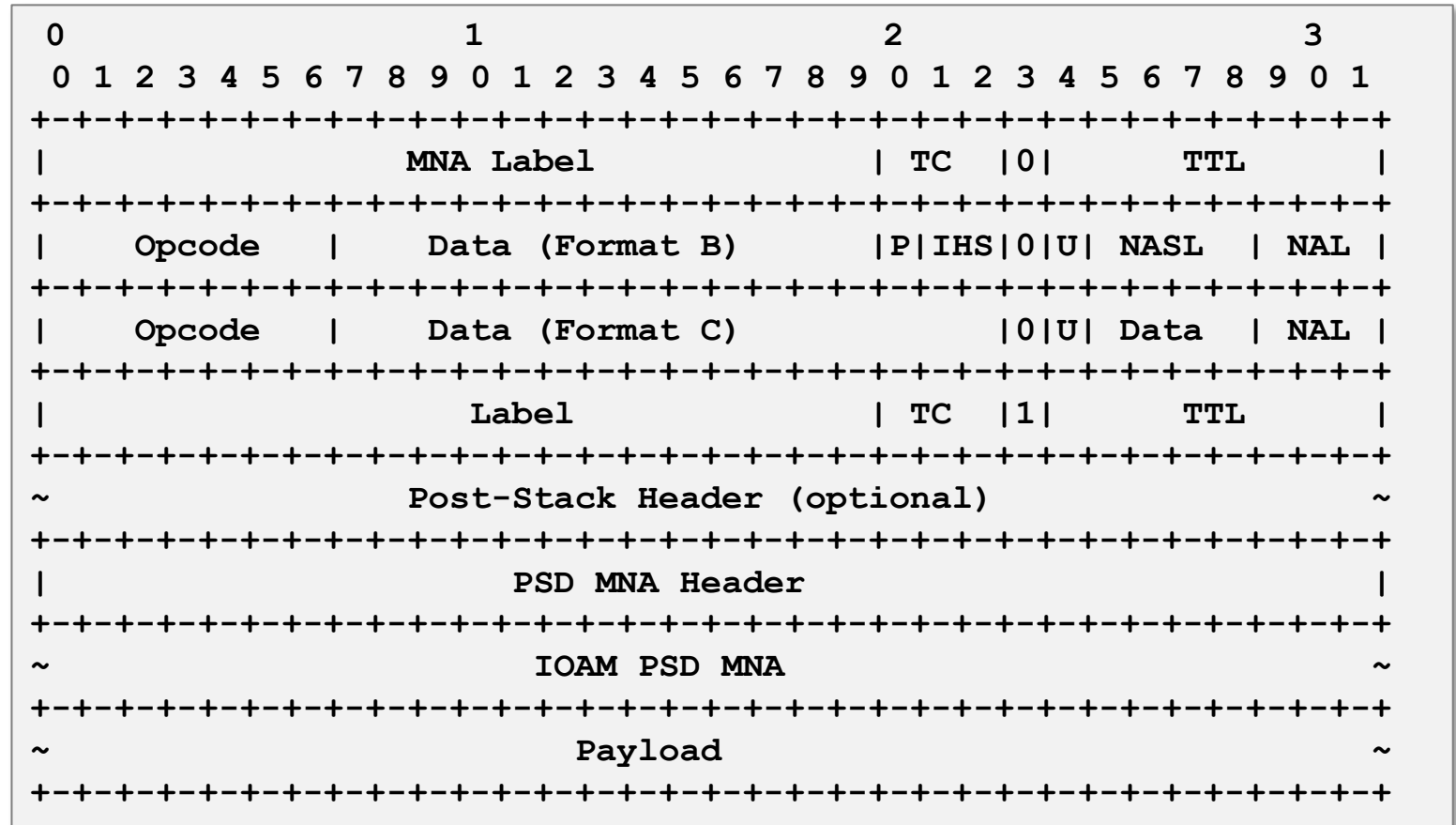
IETF-122, March 2025

Update

- Thank you for adoption of our drafts
- We merged draft-gandhi-mpls-mna-ioam-dex and draft-mb-mpls-ioam-dex, and published as draft-ietf-mpls-mna-ioam [Supporting In Situ Operations, Administration and Maintenance Using MPLS Network Actions](#)
- RFC 9197 IOAM can be realized using PSD MNA
- RFC 9326 IOAM-DEX can be realized using ISD and PSD MNA

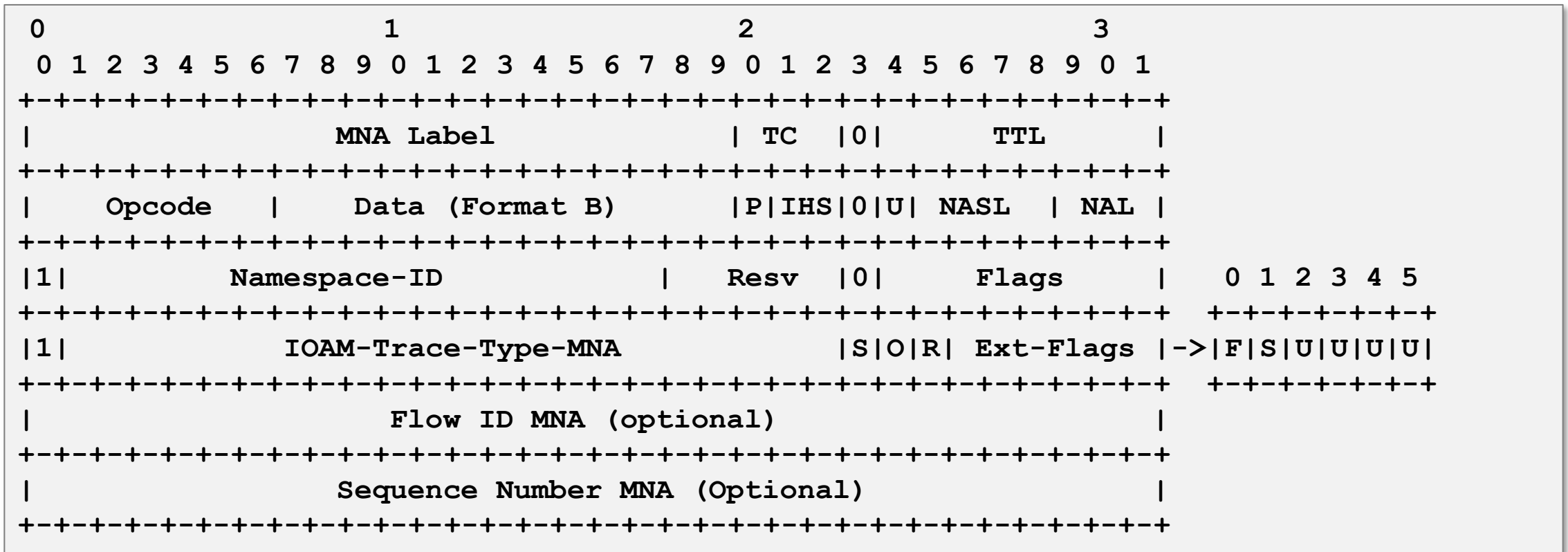
IOAM using Post-Stack Data MPLS Network Actions

- MNA Label [I-D. ietf-mpls-mna-hdr]
- Signaling IOAM PSD MNA using ISD NAS:
 - P (1 Bit): Indicates the presence of the Post-Stack MNA
 - Signal PSD MNA Header offset from BoS LSE using LSE Format B or C [I-D.jags-mpls-ps-mna-hdr]
 - TBA1: In-Stack Network Action Opcode for IOAM in PSD
 - TBA2: In-Stack Network Action Opcode for IOAM Direct Export in PSD
- Existing Post-Stack Headers:
 - PW CW, ACH, G-Ach, d-CW – four octets
 - d-ACH – eight octets
 - BIER Header – 8 + N*32 octets



IOAM-DEX using In-Stack Data MPLS Network Actions

- MNA Label [I-D. ietf-mpls-mna-hdr]
- TBA6: In-Stack Network Action Opcode – IOAM-DEX as In-Stack Data MNA Indicator (LSE Format B or C)



Conclusions & Next Steps

- PSD MNA signaling
 - offset per PSD MNA HDR (could be more than one?) or offsets per PSD MNA data block?
- Address comments from Loa
- Welcome comments and questions

Thank you!