BIER Encapsulation for IOAM Data

draft-xzlnp-bier-ioam-03

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Intention of this draft

- Provides the encapsulation for IOAM over BIER
  - Option 1: BIER + BIER OAM + IOAM + Payload
  - Option 2: BIER + IOAM + Payload (selected)
IOAM relevant status update

- draft-ietf-ippm-ioam-data is in RFC Ed Queue
  - All IOAM options except Direct Exporting (DEX) IOAM option are defined

- draft-ietf-ippm-ioam-direct-export passed WGLC
  - Direct Exporting (DEX) IOAM option is defined

- draft-ietf-ippm-ioam-ipv6-options passed WGLC
  - IOAM over IPv6 encapsulation is defined
Requirements on IOAM over BIER

- It’s deemed necessary to carry IOAM Data in BIER
  - Some multicast flows, such as live video and real-time meeting, are sensitive to packet loss, delay and other factors
  - In-situ OAM provides a way to achieve on-path telemetry information collection, which is necessary for the BIER multicast network operator
• BIER Header is defined in RFC 8296
  – IOAM header inserted, containing IOAM Data defined in draft-ietf-ippm-ioam-data and draft-ietf-ippm-ioam-direct-export

• New BIER Proto Type TBA1 for IOAM

• Next Proto in IOAM follows the definition of BIER Proto, including TBA1 for multiple IOAM options
Next step

• WG adoption?

Thank you!