Segment Routing Header encapsulation for In-situ OAM Data

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History of the Draft

• The work started in October 2018.
• It was first presented in the Spring WG in November 2018.
• It has been presented in 6man and IPPM WGs.
Summary of the Draft

- Defines how iOAM data fields defined in [I-D.ietf-ippm-ioam-data] are transported in SRv6 Networks.
- iOAM data field are carried in the SRH, using a single pre-allocated SRH TLV.
- Defines procedure for the Ingress node.
- Defines processing at the Segment Endpoint Node.
- Defines procedure for the Egress node.
- The draft does not introduce any new procedure or iOAM encoding defined in IPPM WG.
Procedure – Ingress Node

• Ingress node MAY insert the IOAM TLV in the SRH of the data packet.

• Based on the size of the segment list (SL), the ingress node pre-allocates space in the IOAM TLV.

• The ingress node MAY also insert the IOAM data about the local information in the IOAM TLV in the SRH.
Procedure – SR Segment Endpoint Node

• If an IOAM TLV is present in the SRH and is supported by the segment Endpoint node, the SR segment endpoint node MAY add local node data at the pre-allocated position in the IOAM TLV.
Procedure – Egress Node

• The processing of IOAM TLV at the Egress node is similar to the processing of IOAM TLV at the SR Segment Endpoint Node.
Next Steps

• The authors would like the WG to adopt the document.