

In-situ OAM (IOAM) in Geneve

[draft-brockners-ippm-ioam-geneve-01](#)

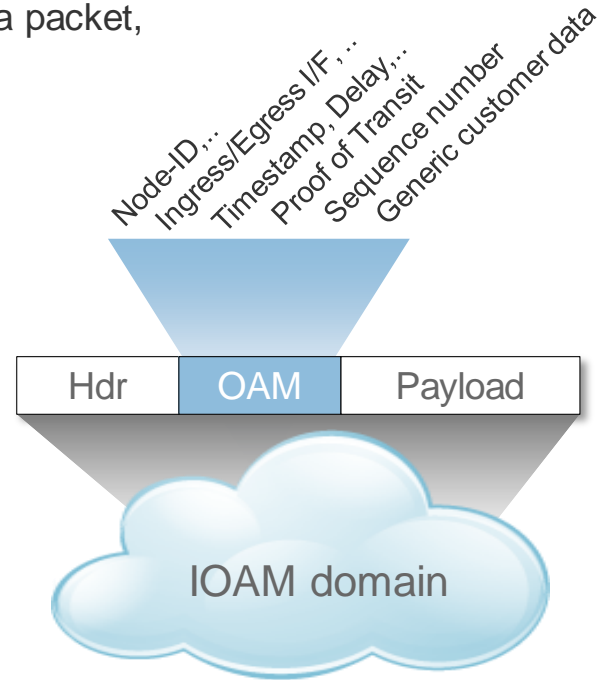
[draft-weis-ippm-ioam-eth-00](#)

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In-situ OAM in a nutshell

- Gather telemetry and OAM information along the path **within** the data packet, (hence “in-situ OAM”) as part of an existing/additional header
 - **No** extra probe-traffic (as with ping, trace, ..)
 - “Hybrid, Type-1 OAM” per RFC 7799
- Generic, Transport independent data-fields for IOAM
 - Scope: Per-hop, specific-hops only, end-to-end
 - Data fields include: Node IDs, interface IDs, timestamps, sequence numbers, ...
- Encapsulation
 - IOAM data fields can be embedded into a variety of transports, including: IPv6, SRv6, NSH, GRE, Geneve, VXLAN-GPE ...
- *Base IOAM document in IPPM*
 - [draft-ietf-ippm-ioam-data](#)



Status and next steps

- IOAM encapsulations into protocols
 - [draft-ietf-sfc-ioam-nsh](#)
 - [draft-brockners-ippm-ioam-vxlan-gpe-01](#)
 - [draft-ioametal-ippm-6man-ioam-ipv6-options](#)
 - [draft-ali-spring-ioam-srv6-00](#)
 - [draft-gandhi-spring-ioam-sr-mpls-00](#)
 - [draft-weis-ippm-ioam-eth](#)
 - ... more to come...
- Feedback from NVO3 WG appreciated (work to be progressed in lock-step with IPPM WG)