IETF 103 – Bangkok
Spring Working Group

# draft-ali-spring-srv6-oam-02.txt
# SRv6 OAM


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# History of the Draft

- draft-ali-6man-srv6-oam-00 was published in July 2017.
  - Main draft describing use-cases including classic ping and traceroute in SRv6 networks.
- draft-ali-6man-srv6-oam-01 was published in October 2017.
  - Revision with editorial changes.
- draft-ali-spring-srv6-oam-00.txt was published in Feb 2018.
  - Added SRv6 ping and traceroute.
  - Added SRv6 segment-by-segment ping and overlay traceroute.
  - Presented in IETF101 (London, March 2018).
- draft-ali-spring-srv6-oam-01.txt was published in July 2018.
- draft-ali-spring-srv6-oam-02.txt was published in October 2018.

# Summary of Changes

- draft-ali-spring-srv6-oam-01.txt was presented at the 6man and Spring WG at IETF102.
- Summary of changes in Rev 2 are as follows:
  - Suggest to move O-bit flag to draft-ietf-6man-segment-routing-header.
  - Editorial changes

# Scope of the Draft

- The document describes how existing ICMP mechanisms can be used in SRv6 Network.
- The document does not propose any changes to the SRH or IPv6 data plane.
- The document does not make any changes to ICMP procedures.
- The document requests one ICMPv6 Message type from the "ICMPv6 type Numbers" registry.
  - SRv6 OAM Message (Value: TBD) and an associated sub-registry.

# Use Cases (I-D illustrations – cont'ed)

- Classic Ping and Traceroute
- SRv6 Ping
  - End-to-end
  - Segment-by-segment
- SRv6 Traceroute
  - Hop-by-hop
  - Segment-by-Segment (Overlay Traceroute)
- SRv6 Paths Monitoring
  - Applicability of draft-ietf-spring-oam-usecase-10 to SRv6 Networks

# Next Steps

- Multiple implementations exist.
- Draft –v02 does not have any dependency on 6man WG.
- The authors will be requesting Spring WG for adoption of this work.