

OAM in SR-MPLS over IP

draft-mirsky-mpls-oam-mpls-sr-ip

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What is in the scope

- **Fault Management:**
 - On-demand fault detection, localization, and characterization
 - Proactively monitor path continuity
- **Performance Monitoring:**
 - Delay measurement
 - Packet Loss measurement

Fault Management

- RFC 8287 details application of LSP Ping [RFC8029] in SR-MPLS environment. SR-MPLS over IP doesn't introduce any issues to the use of LSP Ping as defined in RFC 8287
- draft-mirsky-spring-bfd describes the applicability of BFD over MPLS LSP [RFC5884] in SR-MPLS domain. Again, no obstacles using BFD in SR-MPLS over IP
- The use of IP/UDP encapsulation for LSP Ping and BFD is straightforward
- LSP Ping is still required to bootstrap a BFD session
- The use of GAL and G-ACh encapsulation of LSP Ping requires that the IP address of the sender be included. Option to use IP Address TLV defined in draft-mirsky-mpls-p2mp-bfd

Performance Monitoring

- RFC 6374 Packet Loss and Delay Measurement for MPLS Networks is applicable in SR-MPLS and SR-MPLS over IP environments in its entirety

Next steps

- Much appreciate comments, questions, and suggestions
- The way forward – merge with draft-ietf-mpls-sr-over-ip or develop as the separate document
- Update with extensions