In-band Performance Measurement for Segment Routing Networks with MPLS Data Plane

draft-gandhi-spring-rfc6374-srpm-mpls-00

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Agenda

- Requirements and Scope

- Updates Since IETF-103

- Next Steps

Requirements and Scope

Requirements:

- Delay and Loss Performance Measurement (PM) for SR links and end-to-end P2P/ P2MP SR Policies
- Delay and Loss extended TE link metrics advertisement in the network
- One-way and two-way measurements

Scope:

- Segment Routing (SR) with MPLS data plane
- In-band PM probe messages
- Use RFC 6374 (defined for MPLS) based mechanisms
- Use RFC 7876 (UDP return path) for probe response messages
- **Informational**

Updates Since IETF-103

Updated:

- Rename draft from *spring-sr-mpls-pm* to *spring-rfc6374-srpm-mpls* to reflect RFC 6374 scope
- Various editorial changes to address review comments
- Elaborate on in-band performance measurement
- Add Text on "ECMP for SR-MPLS Policies"
  - ✓ RFC 6374 probe messages using GAL label lacks ECMP support

Pending:

- Add Return Path (address comments from Stewart Bryant)

Next Steps

- Welcome your comments and suggestions
- Multiple implementations of RFC 6374 already exist
- Like to request for WG adoption
- Right WG: SPRING or MPLS?

Thank you