# draft-geib-spring-oam-usecase

**IETF 90, Toronto**

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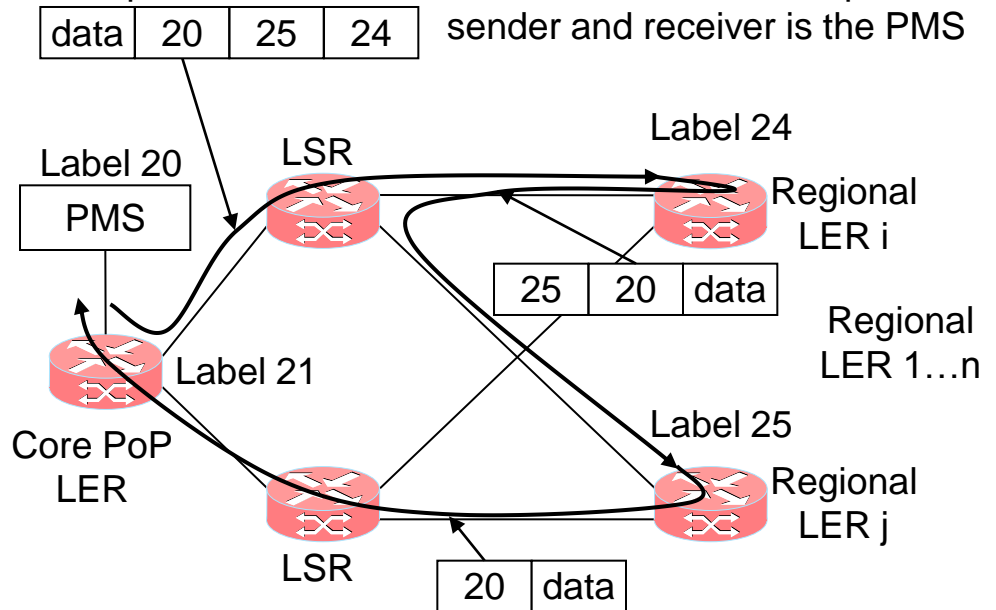
Use case: MPLS path **monitoring**.

Monitoring MPLS paths

- **by Segment Routing, the PMS is aware of the IP and MPLS network topology.**

- **the MPLS path monitoring packets remain in data plane** (part of the use case, not for discussion as a solution option only).

- a single PMS is able to address all LSPs of a domain. Segment Routing allows arbitrary path combinations.

- Example task: PMS based data plane failure detection between LER i and LER j.

In general, all MPLS LSPs of a domain can be monitored this way.

PMS:   MPLS Path Monitoring System



Example of a minimum label stack measurement packet, sender and receiver is the PMS

PMS based LSP measurement, here with 3 LSP segments

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Examples for usage given by the draft are path monitoring, monitoring of a link bundle and failure notification.

Great Discussion on the list – our Conclussions:

- The draft text needs to clarify that it proposes monitoring MPLS paths by SPRING. To verify correspondance of data plane and control plane, other tools like RFC4379 or Proxy-lsp-ping are applicable. They are not part of the use case and only serve to illustrate how the use case features may be used to support MPLS network monitoring.

- Further, the expression "solution" must be removed from the text and replaced by "use case".

Open Question:

- Should the use case be made more generic for any SPRING dataplane (MPLS & IPv6)?

The basic approach of the use case is stable. The authors ask for WG adoption.