

Encapsulation of BFD for SRv6 Policy

draft-liu-spring-bfd-srv6-policy-encap-03

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Recap of this draft

- This document describes the encapsulation of BFD for SRv6 Policy.
- The BFD packets can be encapsulated in Insert-mode or Encaps-mode, fate-sharing with data traffic.
 - Insert-mode packet format:

```
+-----+-----+-----+-----+
| IPv6 header | SRH   | UDP Header | BFD Packet |
+-----+-----+-----+-----+
```

- Encaps-mode packet format:

```
+-----+-----+-----+-----+
| IPv6 header | SRH   | IPv6 header | UDP Header | BFD Packet |
+-----+-----+-----+-----+
```

Update since IETF 118

- This draft was presented at IETF 118
- Greg Mirsky made some good comments on this draft, -03 version was posted to address Greg's comments. Thanks to Greg!

Update since IETF 118 (Cont.1)

- New text in Introduction:
 - As specified in [I-D.draft-ietf-spring-bfd], the basic element monitored by the BFD is a segment list that is a constituent of the candidate path of the particular SR Policy.
- draft-ietf-spring-bfd says:
 - Concluding from the definition of BFD in [RFC5880], in an SR domain, BFD, in its modes and functions, monitors not the SR Policy, as defined in [RFC9256], but a segment list that is a constituent of the candidate path of the particular SR Policy.
- It's aligned now!

Update since IETF 118 (Cont.2)

- Encapsulations of BFD Echo packet were removed from this draft.
 - Section 2.2 BFD Echo Packet in Transport Mode
 - Section 2.4 BFD Echo Packet in Tunnel Mode
- The current draft contains only encapsulations of BFD Control packet:
 - Section 2.1 BFD Control Packet in Insert-Mode
 - Section 2.2 BFD Control Packet in Encaps-Mode
 - Transport Mode is renamed to Insert-Mode
 - Tunnel Mode is renamed to Encaps-Mode

Update since IETF 118 (Cont.3)

- In Section 3 “Choice of Headend and Tail-end IPv6 Addresses”:

- OLD TEXT

- For the BFD control packet, the headend IPv6 address in the Source Address of IPv6 header **may use** the source address associated with the SRv6 Policy.....

- For the BFD control packet, the headend **may choose** endpoint of the SRv6 Policy to be the tail-end IPv6 address which appears in the first segment of SRH or DA of inner IPv6 header.....

- NEW TEXT

- For the BFD control packet, it **is RECOMMENDED to use** the headend IPv6 address associated with the SRv6 Policy as the Source Address of (outer) IPv6 header.....

- For the BFD control packet, the headend **is RECOMMENDED to choose** the endpoint of the SRv6 Policy to be the tail-end IPv6 address which appears in Segment List[0] of SRH or DA of inner IPv6 header.....

Next steps

- Ask for more reviews and comments
- Revise this draft to improve it
- Ask for WG adoption

Thank you!