

Signal Degrade Indication in BFD

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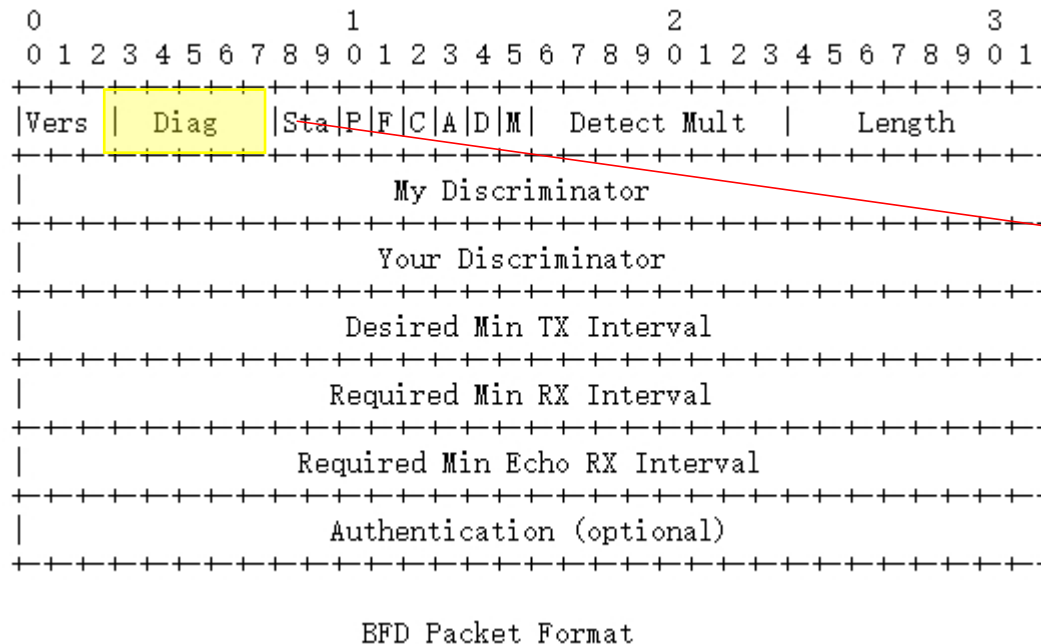
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Motivation

- Signal degrade brings significant impact to the services, should be detected and reported
- Signal degrade indication can be spread via control plane, forwarding plane, management plane, or combination of any of them
 - SD-Triggered Protection Switching in MPLS-TP, *draft-zhl-mpls-tp-sd*
 - RSVP-TE Extensions for Bit Error Rate (BER) Measurement, *draft-zhang-ccamp-rsvpte-ber-measure*
 - Signal Degrade Indication in Segment Routing over MPLS Network, *draft-han-mpls-sdi-sr-01*
- Protocol extensions to support SD indication by using BFD/SBFD [RFC 5880/7880]

Networks using BFD/SBFD

Use the reserved values from Diag to support the indication and removal of signal degrade.



- BFD Diagnostic:
- 0 -- No Diagnostic
 - 1 -- Control Detection Time Expired
 - 2 -- Echo Function Failed
 - 3 -- Neighbor Signaled Session Down
 - 4 -- Forwarding Plane Reset
 - 5 -- Path Down
 - 6 -- Concatenated Path Down
 - 7 -- Administratively Down
 - 8 -- Reverse Concatenated Path Down
 - 9-31 -- Reserved for future use**

Next steps

- Comments and questions are greatly welcome