BFD Echo data model

Greg Mirsky
Reshad Rahman
Jeff Gross
Echo BFD in RFC 5880

• RFC 5880 does not define payload format of BFD Echo control packet.
• Asymmetric, i.e. Sender doesn’t advertise itself but only Reflector advertises its ability to reflect Echo BFD by advertising Required Min Echo RX Interval.
• When Echo BFD is in use, the Sender MAY adjust rate of BFD Control packets according to rate of BFD Echo packets and desired detection time.
BFD Echo implementation alternatives

• Proactive:
  – persistent configuration;
  – transmission interval with the default value;
  – start/stop control

• On-demand:
  – only Required Min Echo RX Interval is in persistent configuration;
  – transmission interval, duration/number of Echo packets are part of start BFD Echo command