

# BFD for BIER

draft-hu-bier-bfd-02.txt

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# Changes from version 00 & 01

- Removes the definition of BIER OAM packet format, and refers it from <draft-ietf-bier-ping>
  - for the BIER OAM packet format has been defined in <draft-ietf-bier-ping>.
- Removes the one-hop bootstrap part ,and keeps multi-hop bootstrap only:
  - The multi-hop bootstrap is more suitable: Because BIER is overlay technology , and it is more likely that BFRs are connected by tunnels.
- Corrects some references: because some draft had been published.
- Riches the security and Acknowledgments parts.

# BIER BFD

- BIER BFD is based on draft-ietf-bfd-multipoint
  - Uses Demand mode( defined in RFC 5880) - no three-way handshake
  
- BFERs use source address and My discriminator to demultiplex BFD sessions
  - Source address:
    - BFIR-id and BIER MPLS Label(MPLS network)
    - BFIR-id and BIFT-id(Non-MPLS network)

# BIER BFD Encapsulation

- BIER BFD encapsulation uses the BIER OAM packet format defined in [I-D.ietf-bier-ping].
- Msg Type field MUST be set to BIER BFD (TBD by IANA)
- BFD Control packet[RFC5880] immediately follows the BIER OAM header

# Bootstrapping BIER BFD session

- Multi-hop Bootstrapping
  - Use BIER OAM ping [I-D.ietf-bier-ping]

# Next Step

- We will add active tail solution in the next version
  - Base on the comments received
- More comments?

Thank you