Update from last version

- <draft-hu-bier-bfd-03>
  ✓ Carry the BFD discriminator TLV in BIER OAM TLV to bootstrap the BIER BFD in data plane
  ✓ Extend the IGP protocol to bootstrap the BIER BFD in control plane
BIER BFD

- BIER BFD is based on [draft-ietf-bfd-multipoint]
  - Uses Demand mode (defined in RFC 5880) – no three-way handshake

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

- BIER BFD Session Establishment
  - BIER OAM Ping Bootstrapping
  - IGP protocol Bootstrapping

- BFERs use source address and My discriminator to demultiplex BFD sessions:
  - BFIR-id and BIER MPLS Label(MPLS network)
  - BFIR-id and BIFT-id(Non-MPLS network)
Bootstrap the BIER BFD Session

- Multi-hop Bootstrapping
  - Use BIER OAM Ping Echo request message
  - Carry BFD discriminator TLV which contains the local discriminator generated by BFIR for this session

- IGP protocol Bootstrapping
  - Use IS-IS and OSPF capability advertisement
  - Extend the BIER BFD Sub-TLV which contains the local discriminator generated by BFIR for this session and the BFERs information

- BIER Overlay Bootstrapping
  - TBA
BIER BFD Session Establishment

- BFD discriminator TLV
- BIER BFD Sub-TLV
Next Step

- **Further work:**
  - BIER overlay extensions for BIER BFD bootstrapping.
  - Adjustment based on the update of demand mode procedure in P2MP BFD [draft-ietf-bfd-multipoint].

- Comments and discussion
Thank you!