

BIER BFD

IETF 105 Montreal

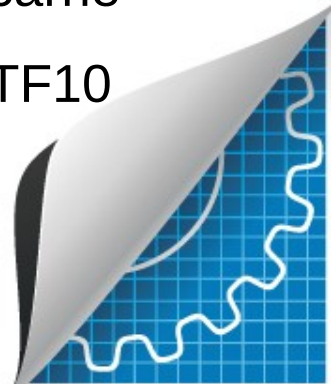
draft-hu-bier-bfd-04



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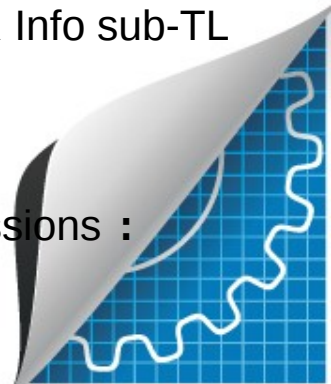
Update from last version

- <draft-hu-bier-bfd-04>
- Multipoint BFD [RFC8562] and Active Tail [RFC8563] has been proposed standard.
- Update the description about BIER BFD Session Bootstrapping and active tail based on RFC8562, and RFC8563.
- Modify the BIER BFD Sub-TLV to BIER BFD Sub-sub-TLV carried in BIER Info Sub-TLV in IS-IS and OSPF (Comment in IETF104).



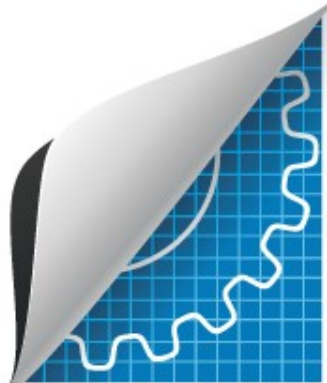
BIER BFD Recap

- BIER BFD is based on RFC8562
 - Uses Demand mode (defined in RFC 5880) – no three-way handshake.
- BIER BFD active tail is based on RFC8563
 - Uses combination of multicast Poll sequence messages and unicast Poll messages.
- BIER BFD encapsulation use BIER OAM ping [I-D.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 (BFD discriminator TLV immediately follows the Target SI-Bitstring TLV)
 - IGP protocol Bootstrapping (BIER BFD Sub-sub-TLV carried in BIER Info sub-TLV)
- 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)



Next Step

- Request for adoption.
- Comments and suggestions are very welcome!



Thank you!

