Background

IETF113 to 116, to combine advantages of hot and warm root standby protection, we proposed:

- MVPN Extensions: IDF negotiation Community and BFD Discriminator Attribute
- IDF Election Procedure:
  - Primary and Standby DF elected in ingress site
  - RPF Checklists instead of RPF interface in egress site for fast failover
- Failure detection with BFD session between primary and standby PEs
- New format of UMH route and “Root Distinguisher Extended Community”

IETF117:

- New method to detect failure by establishing PMSI Tunnel between IDF and standby IDF
- Call for adoption
Failure Detection

BFD Method

Monitoring Traffic Method
Failure Detection

Solution a): Deploy multiple parallel links between ingress PEs

Solution b): PMSI tunnel FRR -- TILFA

Failure between IDF and standby IDF causes duplicated traffic

Solution:

b): PMSI tunnel FRR -- TILFA
Next Steps

- BESS WG Reviews and Comments
- Call For Adoption
Thanks