

BFD Multipoint updates

(draft-ietf-bfd-multipoint-04.txt)

Authors: Dave Ward
and Dave Katz

Editor: Santosh P K

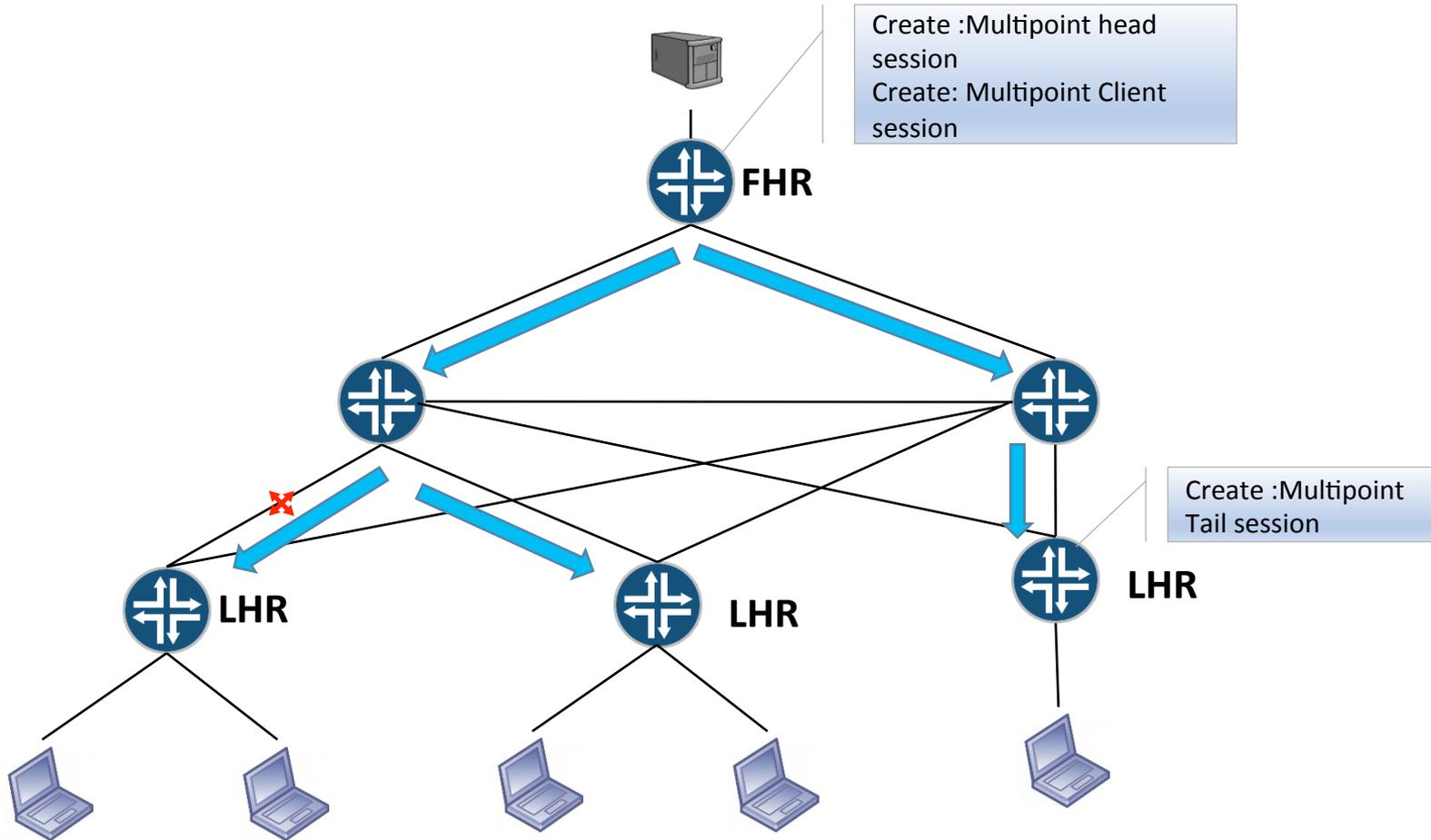
Date Created: 11/2/2014

Date Last Modified: 11/2/2014

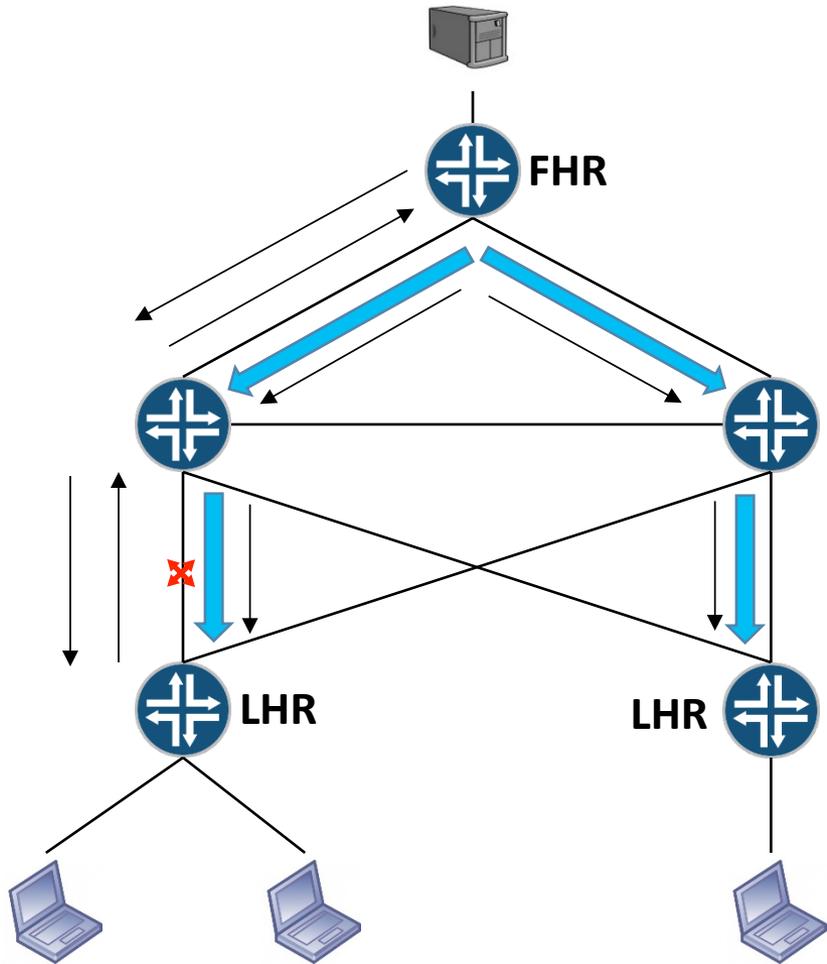
Objective

- Nothing changed from draft-ietf-bfd-multipoint-03.txt.
- Seeking comments on last few open items.
- Push it for RFC by IETF-92.

Quick recap



Active tail - Theory



- a) Unreliable Head Notification
 - ✓ Tail notifies head with a unsolicited unicast BFD down packet.
 - ✓ Uses reverse unicast path.

- b) Semi-reliable Head Notification and Tail Solicitation
 - ✓ Head sends in-band multicast Poll.
 - ✓ Uses multicast path and reverse unicast path.

- c) Reliable Head Notification
 - ✓ Head sends in-band and out-of-band poll packets.
 - ✓ Uses multicast, forward unicast and reverse unicast path.

Active tail - Where should it be?

-Active tail use cases?

- ✓There are implementations without active tail.
- ✓Uses unreliable out of band Poll sequence to track tail.
- ✓Very minimal use case scenario. Option (c) has no use case scenario.

-What are the options?

- ✓Keep the scope of the base document as it is.
- ✓Move active tail to appendix.
- ✓Move active tail to new draft.

Demux and UDP port

- Section 4.7 hints the need of prior information to bind BFD to multipoint path.
- There is no section about destination UDP port.
 - ✓Dest port may be used to punt packet to RE.
- We need to have clarity. Options we have are.
 - ✓Dump all details in base document?
 - ✓Come up with data plane specific document?

More details?

- Draft talks about Demand mode but not about echo.
 - ✓Echo does not fit in multipoint BFD. Not supported?
- Increasing interval
 - ✓It does not use Poll sequence.
 - ✓Use Poll to indicate receiver change in packet and suppress Final?
- bfd.ReportTailDown
 - ✓How will head direct tail about its interest in Notification? Missing detail?
- How LHR punts packet to RE?
 - ✓Out of scope of this document?

Security consideration

- Drafts says it does not raise additional security issues.
- BFDclient and BFDTail sessions can be dynamically created.
 - ✓Open for DoS attack?
- Any multicast protocol already solves this problem?
- Any Suggestions?

Thank you