

PIM Light

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What the draft covers so far

- PIM Light Interface (PLI) will only support message type 3 (Join/Prune)
- Removed PIM Sparse mode limitation.
 - Removed “ needs to have the source, DR, RP in the same PIM domain and they can't be connected over a PIM Light domain”
- PIM Assert
 - PIM light can be P2P or P2MP
 - Lack of PIM Assert could create a situation where two or more upstream routers send the same stream to the downstream router.
 - PIM light vendor implementation or network implementation should ensure that there are not two or more upstream routers sending duplicate stream to downstream router.
 - As an example, for PIM over BIER, when the implementation is finding the upstream BIER edge routers, an algorithm can be used that joins are only send to the BIER edge router with the smallest IP address
 - These implementation are vendor specific and beyond the scope of this draft

What the draft covers so far

- RFC 6559 interaction
 - PIM over reliable transport (PORT) capability is advertised in Hello messages
 - Connection ID is sent in the hello message as well
 - PIM light lacking Hello messages, can be configured to use PORT under a PLI.
 - the TCP connection ID of local router and peer router has to be configured manually under each side of the PLI.
 - The PLI uses these local and peer connection ID to setup a TCP connection. As per [RFC6559] section 4 the routers use the connection IDs to figure out which side will do a passive transport open and which side of the PLI will do an active open. If TCP connection failed to open then PLI will revert back to Datagram mode.

Next Steps

- Any more comments suggestions?

Thank You!