

PIM Light

Draft-hb-pim-light

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PIM Light, what is it

- The idea was born because of “last call” meeting of draft-ietf-bier-pim-signaling
 - Draft-ietf-bier-pim-signaling use PIM Join/Prunes and Assert messages to communicate the multicast state between two PIM domains over a BIER network
- RFC 7761 Section 4.3.1 describes that PIM Join/Prune or Asserts messages are not accepted from a router unless a Hello message has been Heard from that router.
- With PIM Light, PIM Join/Prunes and PIM Asserts are accepted from a Neighbor without receiving PIM Hello

PIM Light, Limitations

- Lack of Hello Messages on a PIM Light Interface (PLI) means:
 - No mechanism to discover PIM neighbors
 - No DR Selection and DR Priority options.
 - The router doesn't create any General-Purpose state for neighboring PIM router

Discussion

- Name of the draft, light, lite, transit etc...
- The goal of the draft is to remove PIM Hellos and PIM adjacency between peers and still accepts MC States via Join/Prune messages
 - As such any message that relies on the PIM Hellos to be accepted will not be supported.
 - Exceptions can be listed in the draft
 - Let's not grab the complexity from one protocol and move it to the other, i.e. using hellos from other protocols
- Asserts, is it really needed to be supported for PIM Light?
- Multicast states, $\langle S, G \rangle$ $\langle *, G \rangle$
 - Can the RP be any of the PIM-Light routers?
- PIM light interface (PLI) configuration
 - Where do we need to explicitly configure the interface
 - As an example in bier domain there is no way to configure a PLI on the BFER/BFIR

Next Steps

- Agreement on the basis of the draft
- Comments
- Asking for adoption

Thank You!