Multicast BABEL Extension

draft-zhang-pim-babel-ext-01

BABEL WG

IETF98# Chicago

Sandy. Zhang

Problem

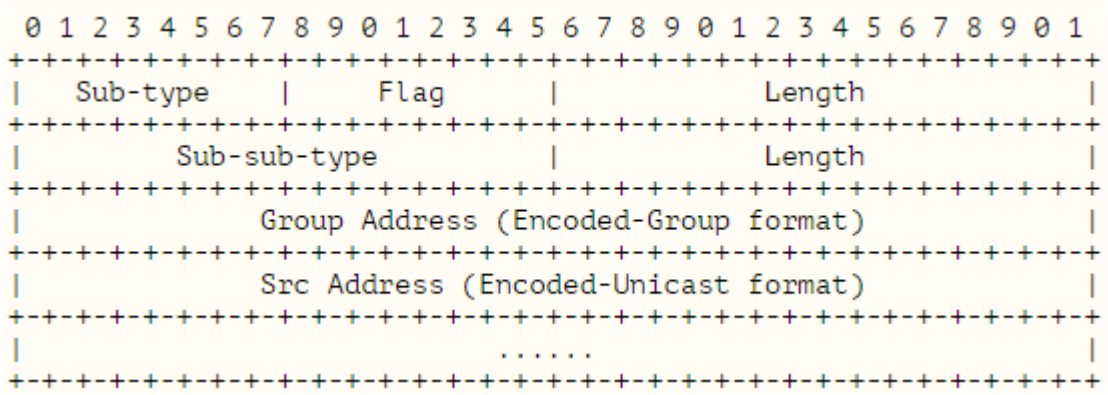
- If multicast is needed in small networks?
- In case you say “Yes” to the above question, then how to implement it?
- If the control plane should be simple?
- How to simple the network deployment?
- It is a good choice to choose BIER in forwarding plane. What about BIER overlay?
- Without MLD, how to advertise the multicast information?

Solution

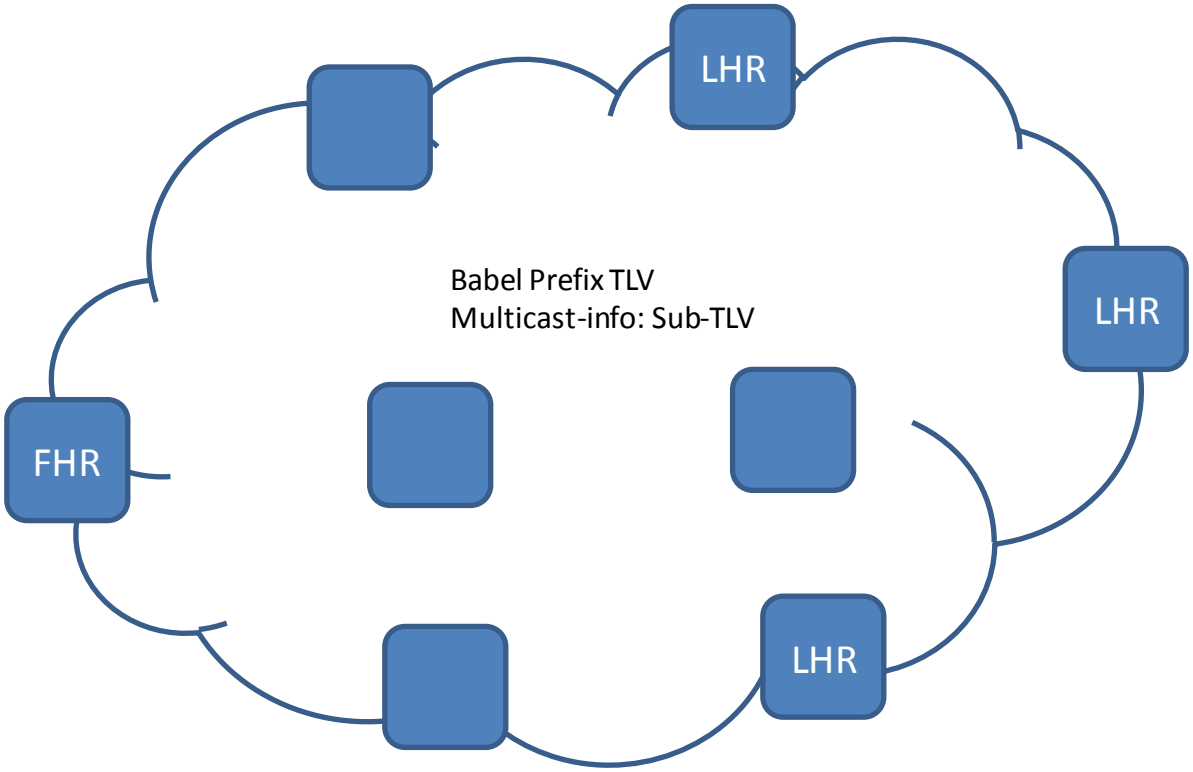
Use Babel to build BIER multicast forwarding plane.

Use Babel to advertise multicast information at the same time.

- LHR leverages Babel extension to send multicast request.
- FHR collects the requirement of LHRs, builds mapping relationship between multicast flow and BIER destination BitString.
- Multicast information is encoded as sub-TLV of Babel prefix TLV.



Multicast Babel Extension



- The Multicast SG information can be carried in Babel update message.
- The prefix MUST NOT be summarized and the according sub-TLV MUST be treated as optional and transitive.

Multicast Babel Extension

- Any comments are welcome ☺