Multicast BABEL Extension

draft-zhang-pim-babel-ext-01

BABEL WG

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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.
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 😊