Leaf discovery mechanism for mLDP based P2MP/MP2MP LSP

MPLS IETF82

draft-jin-mpls-mldp-leaf-discovery-03

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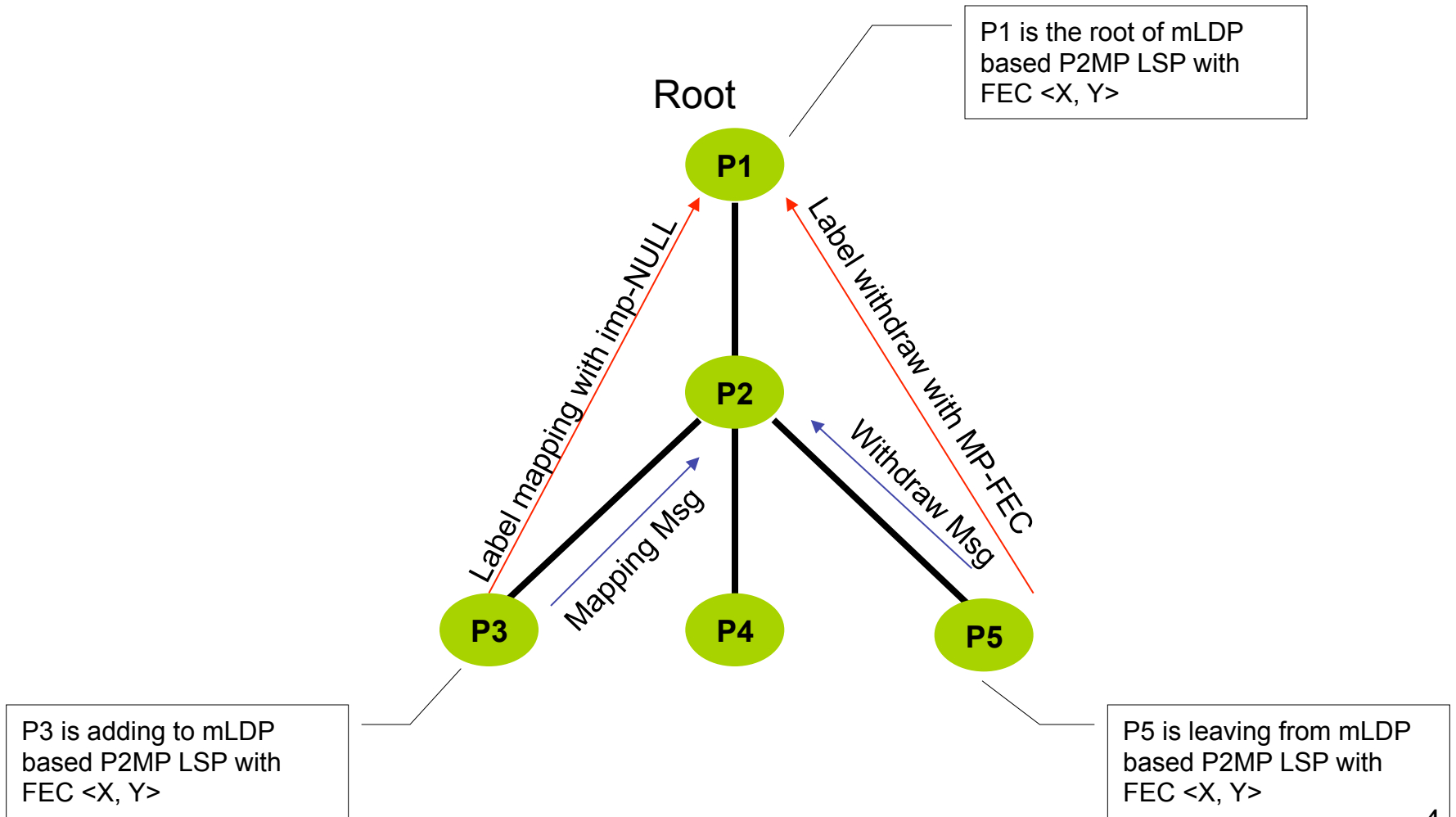Sriganesh Kini, Ericsson

Update

- Presented on IETF 77 & 78
- Update leaf discovery mechanism based on LDP.

Motivation

- There are two kind of mLDP applications:
  - Leaf initiated application
    1. mLDP in-band signaled P2MP LSP
    2. Statically configured P2MP LSP
  - Root initiated application
    1. Multicast VPLS
    2. P2MP PW
    3. L3VPN multicast
- This draft enables leaf initiated and root initiated application to share one P2MP LSP by multiplexing mechanism.

T-LDP solution (update)

Root

P1 is the root of mLDP based P2MP LSP with FEC <X, Y>

P1

Label mapping with imp-NULL

Label withdraw with MP-FEC

P2

Mapping Msg

Withdraw Msg

P3

P4

P5

P3 is adding to mLDP based P2MP LSP with FEC <X, Y>

P5 is leaving from mLDP based P2MP LSP with FEC <X, Y>

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Next steps

- Ask WG to adopt this draft.

Thank you