

DetNet Application in Ring Topologies

draft-jiang-detnet-ring-04

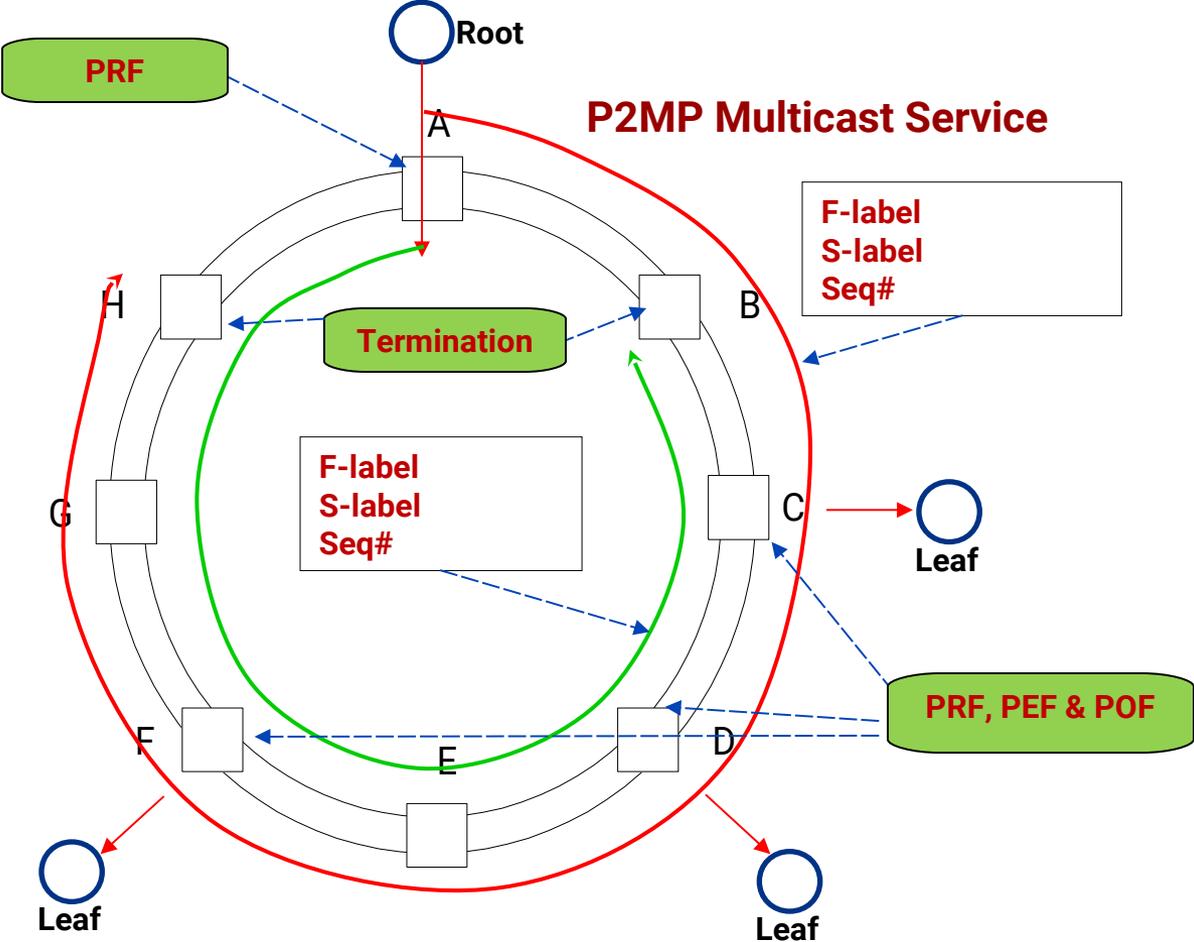
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Updates in Version 04

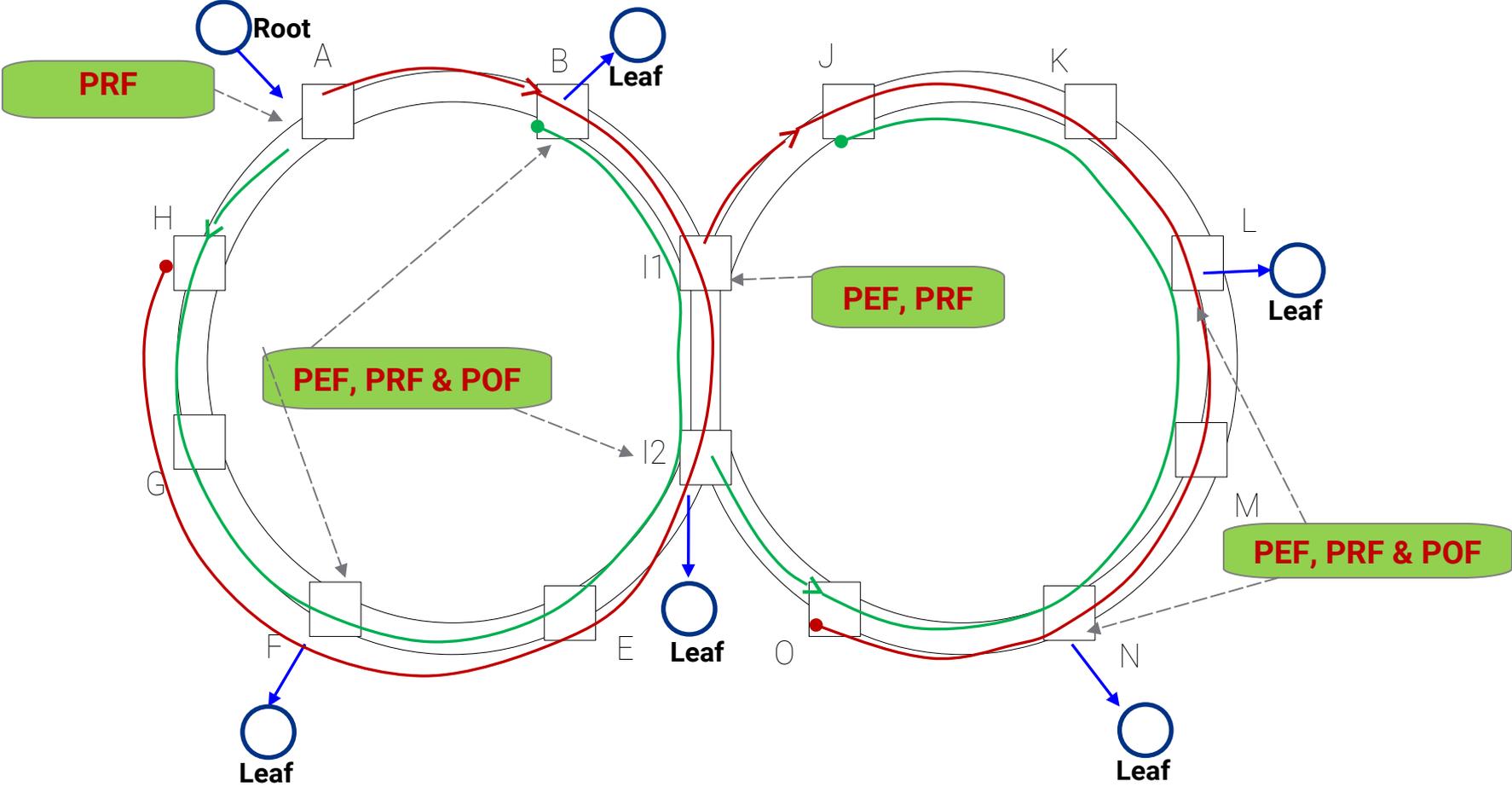
- Aligned with the newest Detnet Architecture, Data plane framework, and the MPLS solution drafts (draft-ietf-detnet-architecture, draft-ietf-detnet-data-plane-framework-00, and draft-ietf-detnet-mpls-00)
 - Using PRF, PEF & POF functions
 - Support the packet reorder function
 - Using F-Label and S-Label instead of LSP and PW

Multicast ring in Detnet



Interconnection of Rings

P2MP Multicast Service



Summary & Next Step

- Detnet ring is highly resilient, very efficient in multicast
 - ✓ To reduce delays in Detnet, only reorder near leafs, i.e., on egress nodes
 - ✓ Support high resiliency & in order delivery of services
 - ✓ No matter how many leaf nodes in a multicast service, only 2 copies of packets are sent, one for CW, and one for CCW
- Call for WG adoption?

Thank You