

# Flow-Aware Transport of Pseudowires Extension for BGP

draft-keyupate-l2vpn-fat-pw-bgp

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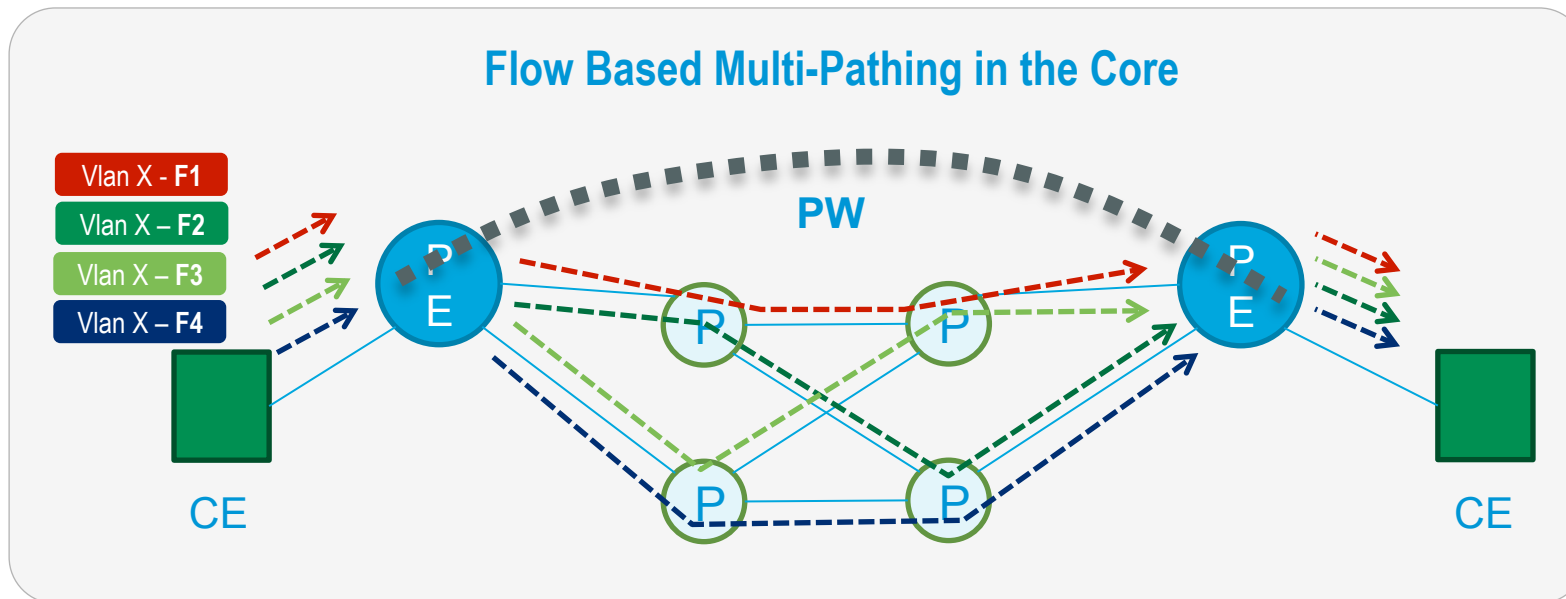
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IETF 88

# Problem Statement

- Ethernet services have become an important component of a SP product offering
- However, demand for high-speed Ethernet services (e.g. multi-GE or higher speeds) pose a problem for Network Operators as traffic from a given PW is not able to utilize all available paths (e.g. ECMP or LAGs) in the Core
- Flow-based load-balancing in the Core becomes an important design consideration



# Proposal

- This memo provides a solution for load-balancing of PW traffic with the following characteristics:
  - Based on **Flow Aware Transport PW** (IETF RFC 6391)
  - Applicable to deployments with **BGP-signaled VPLS (RFC4761)** and **BGP-signaled VPWS (RFC6624)**
  - Does **not require any forwarding behavior changes on transit LSRs**; i.e. NO changes to load-balancing hash functions on deployed P routers
- RFC4761 includes a Layer2 Info Extended Community in VPLS NLRI to convey information such as CW support, MTU, etc.
- **PROPOSAL – Use two (2) unused bits in Control Flag Bit vector to encode “T” and “R” bits as defined in RFC6391**

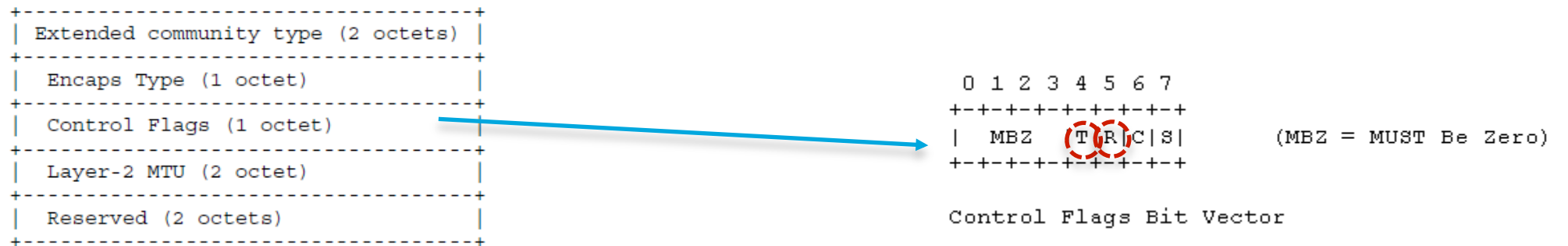


Figure 3: Layer2 Info Extended Community

# Next Steps

- Incorporate comments (feedback welcomed)
- Move document to WG status

**THANK YOU !**