

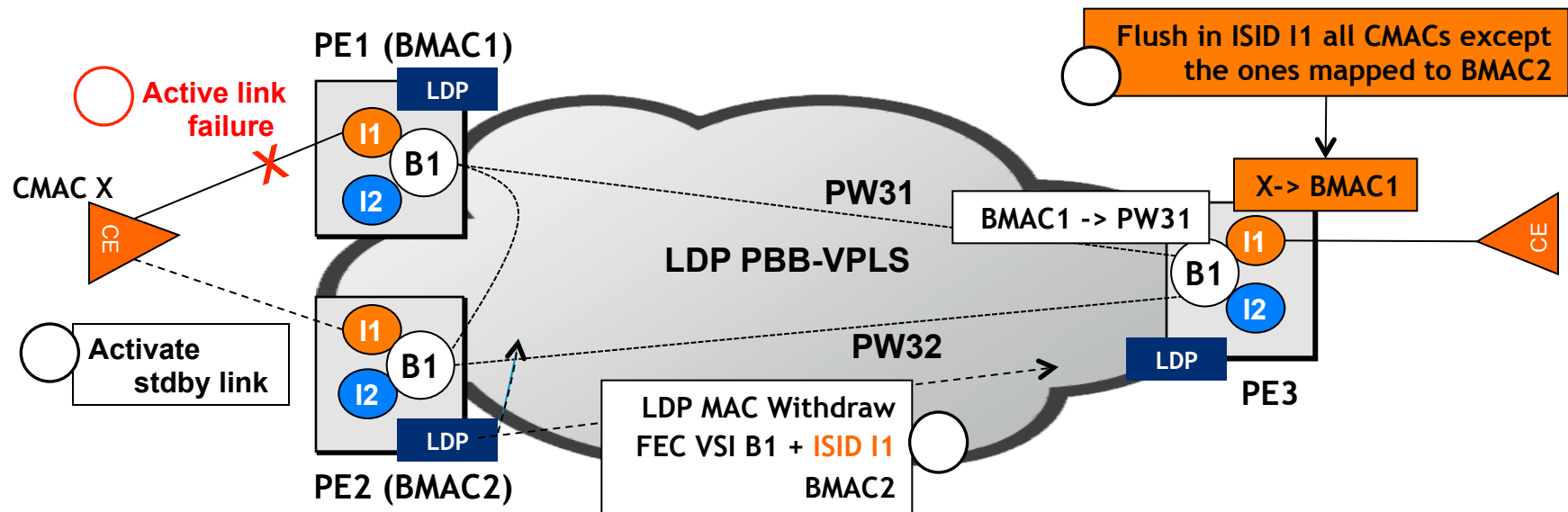
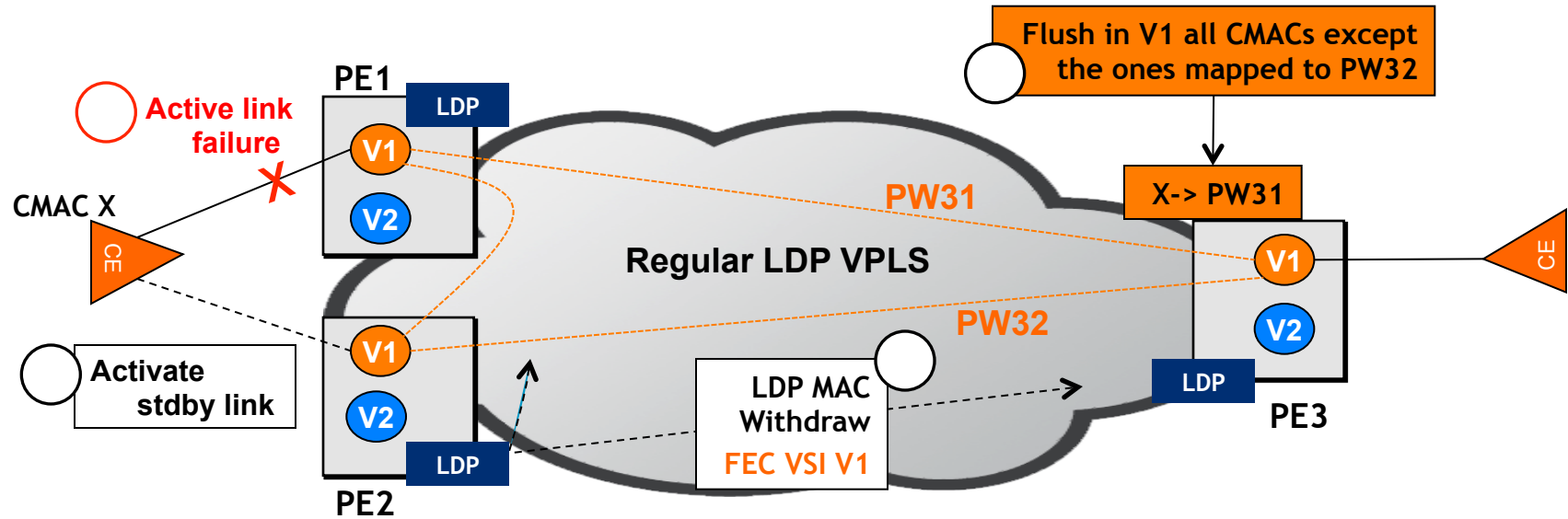
# **LDP MAC Flush extensions for PBB-VPLS**

## **draft-balus-l2vpn-pbb-ldp-ext-02**

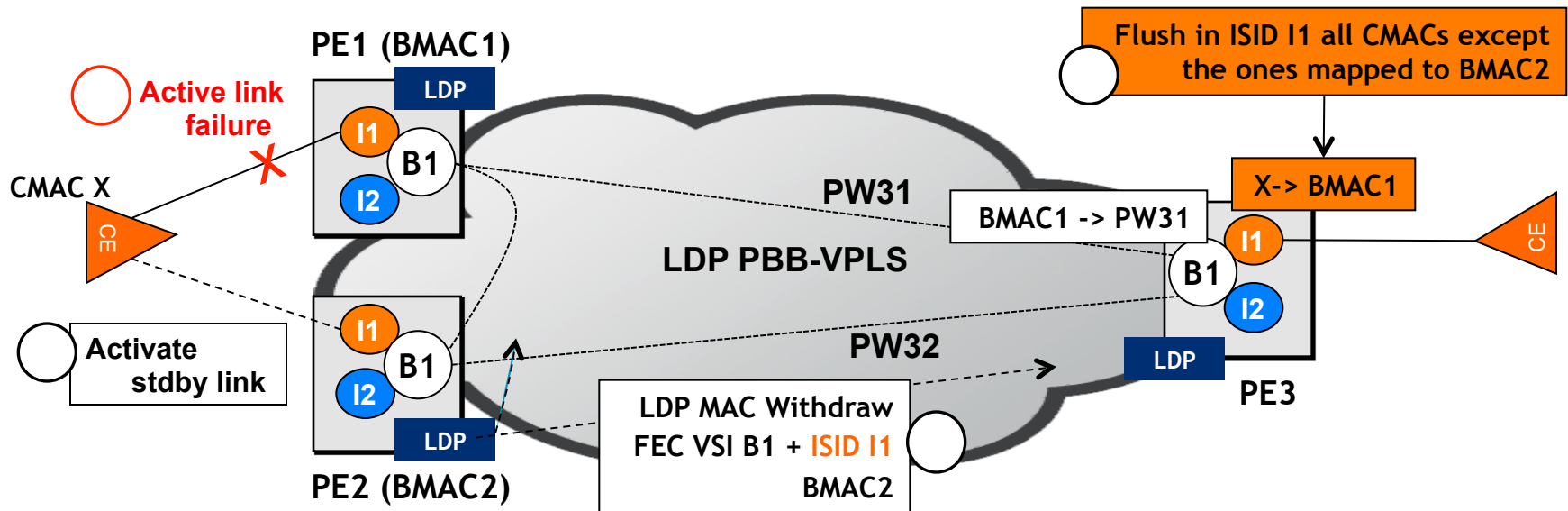
# Background

- **draft-ietf-l2vpn-vpls-ldp-mac-opt-01.txt** - LDP Extensions for Optimized MAC Address Withdrawal in HVPLS
  - Approved working group item
  - Extends the LDP MAC Flush to address existing VPLS deployments
  - Enables a PE to minimize the MAC addresses that need to be relearned
- **draft-balus-l2vpn-pbb-ldp-ext-02** - Extensions to LDP MAC Withdraw for PBB-VPLS
  - Content discussed in a number of IETF meetings
  - Extends the existing LDP MAC Flush to work in a PBB-VPLS case
  - Enables a PBB-VPLS PE to
    - minimize the Customer MAC addresses that need to be re-learned
    - eliminate unnecessary MAC Flush in the Backbone VPLS

# LDP MAC Flush for regular VPLS and PBB-VPLS



# Required extensions to LDP MAC Withdraw

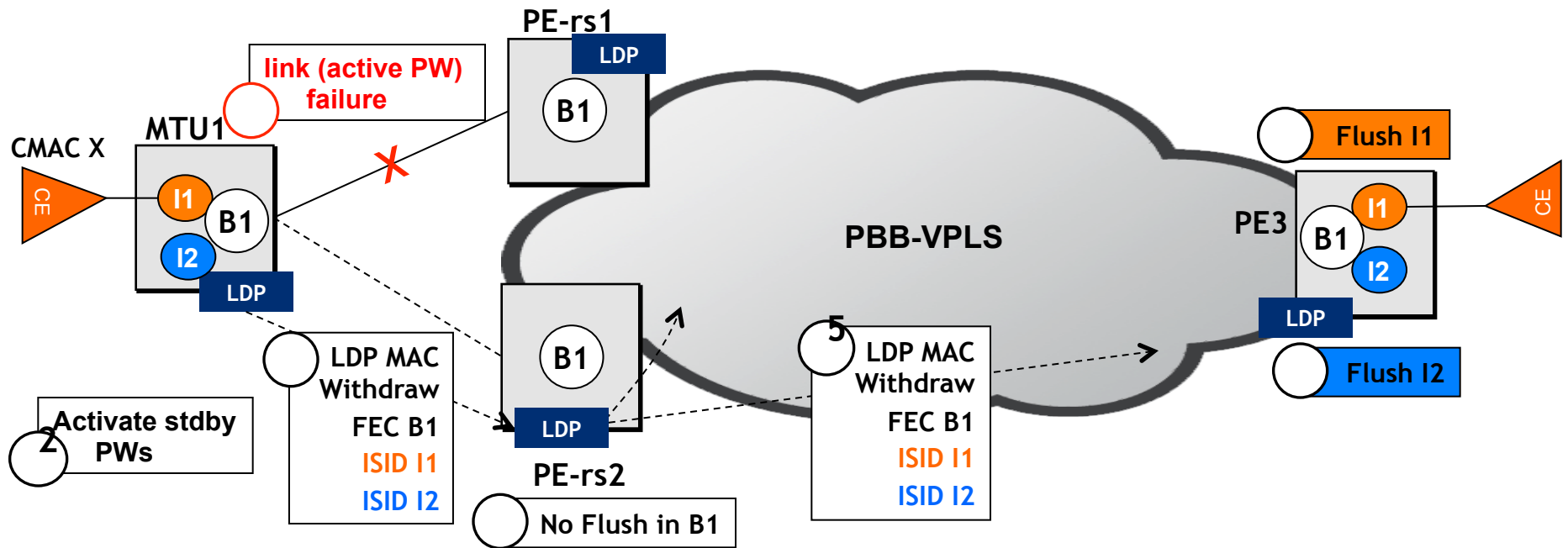
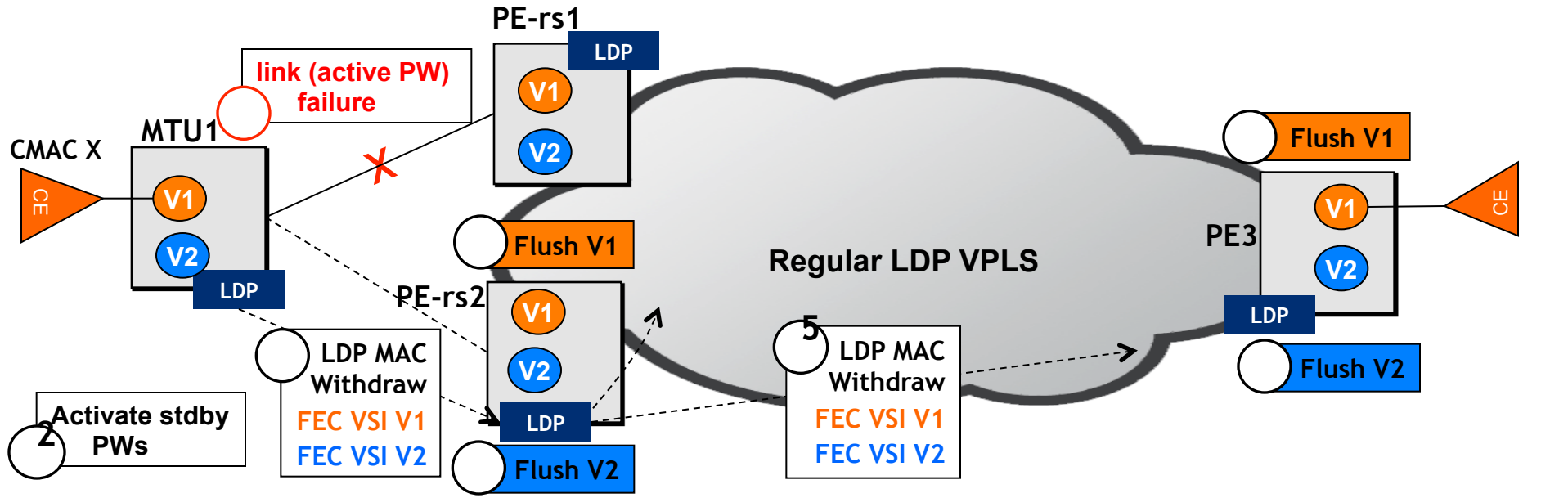


Add New MAC Flush Extension TLV to LDP MAC Withdraw

ISID sub-TLV identifies the target ISID instance(s) - **ISID I1**

BMAC sub-TLV identifies the BMAC of the originator PE – BMAC2

# Comparison of LDP MAC Flush for Hierarchical VPLS and PBB-VPLS



## Next steps

The text in [draft-balus-l2vpn-pbb-ldp-ext-02](#) addresses the same goals as [draft-ietf-l2vpn-vpls-ldp-mac-opt-01.txt](#) for PBB-VPLS

Authors of the two drafts have agreed the procedures are complementary

Are there any objections to extend the [draft-ietf-l2vpn-vpls-ldp-mac-opt-01.txt](#) with the text from [draft-balus-l2vpn-pbb-ldp-ext-02](#)?