

# **draft-ram-l2vpn-ldp-vpls- etree-2pw-02**

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# Background

- This draft addresses the E-Tree requirement for leaf-to-leaf communication restriction
- To comply with this requirement, the draft proposes using a pair of PWs (root and leaf) to interconnect core VPLS PEs
  - Traffic originated in root AC is forwarded over root PW
  - Traffic originated in leaf AC is forwarded over leaf PW

# Updates (1)

- Instead of defining new VSI types to identify root and leaf PWs (-00), a new PW interface parameter called VSI E-Tree Type is defined
- To identify root and leaf PWs in the same logical VSI interface (identified by FEC in -00), a new PW interface parameter called VSI E-tree Identifier is defined

# Updates (2)

- New parameters are encoded as interface parameters sub-TLVs (section 5.5. of RFC 4447), as follows:

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
+-----+																					
Type (TBD)				Length (1)				VSI E-Tree Type													
+-----+																					

- VSI E-tree Type can take the following values:
  - 0: E-Tree Root VSI
  - 1: E-Tree Leaf VSI

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
+-----+																					
Type (TBD)				Length (1)				VSI E-Tree Identifier													
+-----+																					
VSI E-Tree Identifier(cont.)												Reserved									
+-----+																					

- VSI E-tree Identifier is a 32-bit number that is used to identify a pair of root and leaf PW as part of the same logical VSI interface, in the context of a pair of VPLS PEs.

# Next Steps

- Incorporate input into new revision
- Attempt to harmonize with other proposals

# Thank You

Questions ? Comments ?