###### Static L2VPN

***Objective:***

Objective is to verify creation of static L2VPN between PE nodes. Here it is assumed that IP connectivity is already established between PE nodes using underlying IGP.

### ISIS, LDP



CE1

**fd1**

CE2

P1

P2

**fd1**

ac

PW1

PW1

ac

**PE-1** Loopback

18.2.2.2

**PE-2** Loopback

18.3.3.3

Customer

Service Provider

Static L2VPN Configuration on PE Nodes

Customer

***Procedure:***

* Setup the Fowarding Domains and classifiers and flow points in CLI on PE-1:
  + Enter “config”
  + fds fd fd1 mode vpls
  + classifiers classifier VLAN-UNTAGGED filter-entry vtag- stack untagged-exclude-priority-tagged true
  + fps fp ac logical-port 2 fd-name fd1 classifier-list VLAN-UNTAGGED
* Setup the L2VPN configuration on the forwarding domain provisioned. The L2VPN is only running with Untagged traffic in this example:
  + pseudowires pseudowire PW1 mode mesh stats-collection on configured-pw peer-ip 18.3.3.3 pw-id 2500 transmit-label

2500 receive-label 2500

* + l2vpn-service l2vpn vpls-1 forwarding-domain fd1 pseudowire PW1
* Again the above commands needs to be configured at both the PE nodes to perform L2VPN functionality. Once the configuration is performed at both the nodes and L2VPN connection is setup between the PE nodes, the L2VPN configuration on the nodes can be viewed using below commands.
  + show pseudowires

PSEUDOWIRE FLAG SUMMARY

| s = static d = dynamic |

| D = operationally down U = operationally up |

| a = active b = standby |

| S = spoke PW M = mesh PW |

| F = PW forwarding B = PW blocking |

+ PSEUDOWIRES STATE +

PW-Id |Name|Peer IP|Oper State|In Label|Out Label|Flags |

+ + + + + + + +

| 2500 | PW1 | 18.3.3.3 | UP | 2500 | 2500 | sUMaF |

+ + + + + + + +

* + show l2vpn-services

+

L2VPN SERVICES +

| Name | Service Type | Forwarding Domain | Vc Mode Revertive | Pseudowire |

+ + + + + +

| vpls-1 | ethernet | fd1 | False | PW1 |

+ + + + + +

* + show pseudowires statistics

+ PSEUDOWIRE STATISTICS +

| Packet Type | Transmitted | Received |

+ + + +

| Pseudowire Name: PW1 | | |

| Bytes | 8,838,008,884,448 | 55,310,449,869,150 |

| Packets | 6,772,288,940 | 52,676,618,923 |

| Dropped Bytes | 0 | 0 |

| Dropped Packets | 0 | 0 |

Test Case Results:

Passed: Yes No Verified by Date/Time Comments