###### L2VPN configuration

***Objective:***

Objective is to verify creation of L2VPN between PE nodes. Here it is assumed that T-LDP session is already established on underlying IGP in the service provider network.

### ISIS, LDP,T-LDP



CE1

**fd1**

CE2

PW1

P1

P2

**fd1**

PW1

ac

ac

PE-1 Loopback

18.2.2.2

PE-2 Loopback

18.3.3.3

Customer

Service Provider

L2VPN Configuration on PE Nodes

Customer

***Procedure:***

* Setup the Forwarding 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 configured-pw peer-ip

18.3.3.3 pw-id 230

* + l2vpn-service l2vpn vpls-1 service-type vlan signaling- type ldp 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  a | =  = | operationally  active | down | U  b | =  = | operationally  standby | up | |  | |
| | | 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 |

+ + + + + +

+ +

| 230 | PW1 | 18.3.3.3 | UP | 24967 | 24327 | dUMaF |

+ + + + + + + +

* + show l2vpn-services

+

L2VPN SERVICES +

| Name | Service Type | Forwarding Domain | Pseudowire |

+ + + + +

| vpls-1 | vlan | fd1 | PW1 |

+ + + + +

Test Case Results:

Passed: Yes No Verified by Date/Time Comments