###### Dynamic PWE – Mac Withdrawal

***Objective:***

Verify provisioning of mac withdrawal parameter.

***Procedure:***

* Go to the configuration terminal
  + config
* Enter the pseudowire provisioning with mac-withdrawal parameter set.

pseudowires pseudowire PW1 mode spoke protect true role primary configured-pw peer-ip 192.168.28.24 pw-id 100

pseudowires pseudowire PW1 mac-withdraw true

* Validate the pseudowire and mac-withdraw parameter:

5144-0019-Node4> show pseudowires pseudowire PW1

+ PSEUDOWIRES STATE +

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| | | KEY | | | VALUE | | |
| + |  | + |  | + |
| | | PW Id | | | 100 | | |
| | | Name | | | PW1 | | |
| | | Peer IP | | | 192.168.28.24 | | |
| | | Oper State | | | DOWN | | |
| | | In Label | | | 52002 | | |
| | | Out Label | | | 52000 | | |
| | | Mode | | | Spoke | | |
| | | PW Role | | | Primary | | |
| | | PW Type | | | Dynamic | | |
| | | Service Type | | | ethernet | | |
| | | Protection State | | | passive | | |
| | | Remote PW Status | | | pseudowire-forwarding | | |
| | | Local PW Status | | | pseudowire-not-forwarding | | |
| | | Statistics Collection | | | Off | | |
| | | PW Load Balance | | | disabled | | |
| | | Operational Fat | | | None | | |
| | | Configured CW | | | non-preferred | | |
| | | Operational CW | | | OFF | | |
| | | Operational CC Type | | | cctype-4 | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| | | MTU |  | | | 1500 | | |
| | | Tunnel Type |  | | | OSPF-SR | | |
| | | Reversion Hold Time |  | | | 30 sec | | |
| | | Configured PW-Reversion |  | | | none | | |
| | | Manual Switchover |  | | | False | | |
| | | Ignore MTU Mismatch |  | | | False | | |
| | | MS-PW ID |  | | | NONE | | |
| **|** | **MAC Withdraw** |  | **|** | **True** | | |
| | | PW Fault Reason |  | | | no-fault | | |
| | | PW Status Local Refresh | Timer | | | 600 sec | | |
| + |  |  | + |  | + |

* Without mac withdraw parameter set, a fiber break on the primary PWE will cause traffic loss until traffic is rerouted and re-learned in both traffic directions. However, with mac withdraw enabled, the traffic loss will be minimized as mac learning will take place faster.

Test Case Results:

Passed: Yes No Verified by Date/Time Comments