



Test Report TR S2510PoE-DC
Firmware Version build 71585

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1. Introduction

This document is known for problems and solutions for TECHROUTES TR S2510PoE-DC Series switch.

2. About This Test Report

This Test Report provides information for

A. To check the MDS/ EDS shall shut or disable a physical port on detection of loop on that interface

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Present software version- Version 2.2.0C Build 71585;

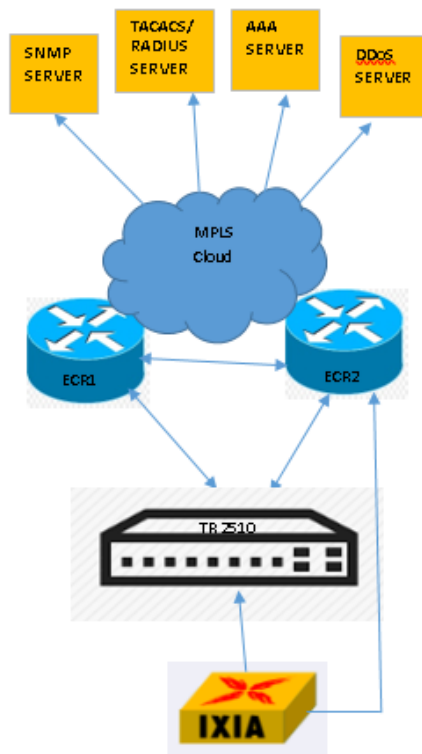
Present hardware version- V1.0;

3. Test Report

A. RJIL-IP-QA-DS-SYS-060

1. To check the MDS/ EDS shall shut or disable a physical port on detection of loop on that interface.

2. Test Set up : Switch , ECR1, ECR2, IXIA





3. Switch Configuration :

Spanning –tree mode rstp

Show spanning - tree

4. Procedure:

- 1. Connect switch to IXIA and ECR1, ECR2**
- 2. Connect switch port Gi 0/4 and Gi0/8 to ECR1 and ECR2**
- 3. Generate the traffic from IXIA towards switch**
- 4. Configure spanning tree enabled in RSTP in the switch globally for all VLANS**
- 5. Switch port Gi 0/4 will be in forward state and Gi0/8 will be in blocked state in order to avoid the loop**
- 6. The switch with lowest Bridge ID is elected as Root Bridge**
- 7. Root ports and designated ports are identified**
- 8. Ports are placed in blocking state to eliminate loops**
- 9. The default bridge priority is set as 32,768**



5. Test Result :

```
Switch#show spanning-tree

Spanning tree enabled protocol RSTP(2004)

RSTP
  Root ID    Priority    32768
            Address    5CCC.FF13.1FF7
            This bridge is the root
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

  Bridge ID  Priority    32768
            Address    5CCC.FF13.1FF7
            Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec

Interface    Role Sts Cost      Pri.Nbr  Type
-----
g0/4         Desg FWD 20000    128.4    P2p
g0/8         Back BLK 20000    128.8    P2p

Switch#show int b
Port  Description  Status  Vlan    Duplex  Speed  Type
-----
g0/1  down         down    Trunk(1) full    auto   Giga-FX
g0/2  down         down    Trunk(1) full    auto   Giga-FX
g0/3  down         down    1       auto    auto   Giga-TX
g0/4  up           up      1       full    1000Mb Giga-TX
g0/5  down         down    1       auto    auto   Giga-TX
g0/6  down         down    1       auto    auto   Giga-TX
g0/7  down         down    1       auto    auto   Giga-TX
g0/8  up           up      1       full    1000Mb Giga-TX
g0/9  down         down    1       auto    auto   Giga-TX
g0/10 down         down    1       auto    auto   Giga-TX
vl    up           up
Switch#
```

```
Switch#show interface g0/4
GigaEthernet0/4 is up, line protocol is up
  Ifindex is 4, unique port number is 4
  Hardware is Giga-TX, address is 5ccc.ff13.lffb (bia 5ccc.ff13.lffb)
  MTU 1500 bytes, BW 1000000 kbit, DLY 10 usec
  Encapsulation ARPA
  Auto-Duplex(Full), Auto-Speed(1000Mb/s), Flow-Control Off
  5 minutes input rate 1 bits/sec, 0 packets/sec
  5 minutes output rate 29 bits/sec, 0 packets/sec
    Received 3 packets, 192 bytes
      0 broadcasts, 3 multicasts
      0 discard, 0 error, 0 PAUSE
      0 align, 0 FCS, 0 symbol
      0 jabber, 0 oversize, 0 undersize
      0 carriersense, 0 collision, 0 fragment
      0 L3 packets, 0 discards, 0 Header errors
    Transmitted 81 packets, 5636 bytes
      2 broadcasts, 79 multicasts
      0 discard, 0 error, 0 PAUSE
      0 sqettest, 0 deferred, 0 oversize
      0 single, 0 multiple, 0 excessive, 0 late
      0 L3 forwards
Switch#show interface g0/8
GigaEthernet0/8 is up, line protocol is up
  Ifindex is 8, unique port number is 8
  Hardware is Giga-TX, address is 5ccc.ff13.lfff (bia 5ccc.ff13.lfff)
  MTU 1500 bytes, BW 1000000 kbit, DLY 10 usec
  Encapsulation ARPA
  Auto-Duplex(Full), Auto-Speed(1000Mb/s), Flow-Control Off
  5 minutes input rate 30 bits/sec, 0 packets/sec
  5 minutes output rate 1 bits/sec, 0 packets/sec
    Received 84 packets, 5828 bytes
      2 broadcasts, 82 multicasts
      16 discard, 0 error, 0 PAUSE
      0 align, 0 FCS, 0 symbol
      0 jabber, 0 oversize, 0 undersize
      0 carriersense, 0 collision, 0 fragment
      0 L3 packets, 0 discards, 0 Header errors
    Transmitted 6 packets, 384 bytes
      0 broadcasts, 6 multicasts
      0 discard, 0 error, 0 PAUSE
      0 sqettest, 0 deferred, 0 oversize
      0 single, 0 multiple, 0 excessive, 0 late
```

