



Test Report TR S2510PoE-DC
Firmware Version build 71585

Contents

1. Introduction	3
2. About This Test Report	4
3. Test Report	
A. RJIL-IP-QA-DS-SYS-003	5



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 support of IEEE 802.1QinQ mechanism.

Present software version- Version 2.2.0C Build 71585;

Present hardware version- V1.0;

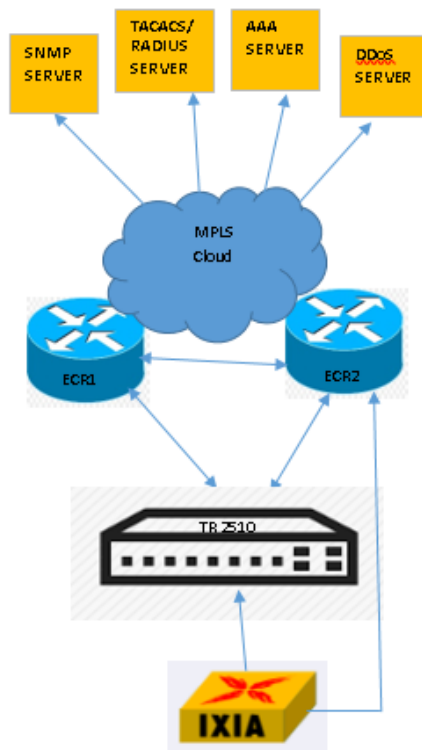


3. Test Report

A. RJIL-IP-QA-DS-SYS-003

1. To check support of IEEE 802.1QinQ mechanism.

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





3. Switch Configuration :

Configuration must be done as per below steps

Step 1: Uplink interface

```
interface GigaEthernet0/4 -----(uplink port)
```

```
switchport mode dot1q-tunnel-uplink
```

!

Step 2: Downlink (Customer interface)

```
interface GigaEthernet0/3
```

```
switchport mode dot1q-translating-tunnel
```

```
switchport dot1q-translating-tunnel mode QinQ translate 2 100 0
```

!

Step 3: Global Configuration mode

```
dot1q-tunnel
```

```
vlan 1-2,100,890
```

4. Procedure:

1. Connect switch to IXIA and ECR1, ECR2
2. Generate traffic from IXIA and is forwarded to switch.
3. First configure dot1q-tunnel on the uplink port
4. Then do the configuration on downlink port
5. Lastly enable dot1q- tunnel globally
6. Switch will be able to translate multiple inner VLAN tag to outer VLAN tag



5. Test Result :

Send vlan 2 packet to g0/3

Capture in g0/4 (uplink port)

Wireshark capture

20...	fe80::95b1:17...	ff02::1:3	LLMNR	92 Standard query 0xdd01 A wpad
20...	192.168.0.2	224.0.0.252	LLMNR	72 Standard query 0xdd01 A wpad
20...	fe80::95b1:17...	ff02::1:3	LLMNR	92 Standard query 0x36f3 AAAA wpad
20...	192.168.0.2	224.0.0.252	LLMNR	72 Standard query 0x36f3 AAAA wpad
20...	fe80::95b1:17...	ff02::1:3	LLMNR	92 Standard query 0xdd01 A wpad
20...	192.168.0.2	224.0.0.252	LLMNR	72 Standard query 0xdd01 A wpad

Frame 2014: 92 bytes on wire (736 bits), 92 bytes captured (736 bits) on interface 0

Ethernet II, Src: CompalIn_c7:09:78 (28:1a:06:c7:09:78), Dst: IPv6mcast_01:00:03 (33:33:00:01:00:03)

802.1Q Virtual LAN, PRI: 0, CFI: 0, ID: 100

802.1Q Virtual LAN, PRI: 0, CFI: 0, ID: 2

Internet Protocol Version 6, Src: fe80::95b1:1744:7850:3a37, Dst: ff02::1:3

User Datagram Protocol, Src Port: 60877 (60877), Dst Port: 5355 (5355)

Link-local Multicast Name Resolution (query)

0000	33 33 00 01 00 03 20 1a 06 c7 09 78 81 00 00 64	33.... . .X...d
0010	81 00 00 02 86 dd 60 0b 9f 6b 00 1e 11 01 fe 80k.....
0020	00 00 00 00 00 00 95 b1 17 44 78 50 3a 37 ff 02DxP:7..
0030	00 00 00 00 00 00 00 00 00 00 00 01 00 03 ed cd
0040	14 eb 00 1e ea 16 dd 01 00 00 00 01 00 00 00 00
0050	00 00 04 77 70 61 64 00 00 01 00 01	...wpad.