



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 support of SNMPv2 - RFC 1450, RFC 1901, RFC1902,
RFC1905.**

Present software version- Version 2.2.0C Build 71585;

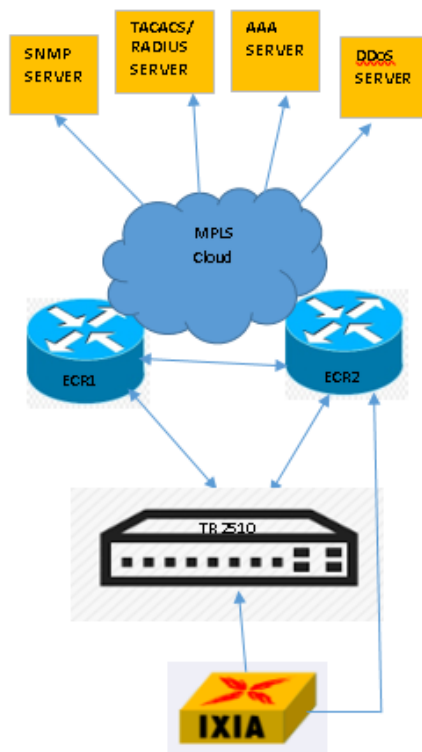
Present hardware version- V1.0;

3. Test Report

A. RJIL-IP-QA-DS-SYS-009

1. Test Objective: To check support of SNMPv2 - RFC 1450, RFC 1901, RFC1902, RFC1905.

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





3. Switch Configuration :

SNMP V2

```
snmp-server community 0 OnM4G@Ge0 RW
```

```
snmp-server host 1.1.1.2 version v2c OnM4G@Ge0 authentication configure snmp
```

```
snmp-server hostv6 1::2 version v2c OnM4G@Ge0 authentication configure snmp
```

```
snmp-server location LAB
```

```
snmp-server trap-add-hostname
```

```
snmp-server keep-alive 60
```

4. Procedure:

1. Make the reachability of the switch from the NMS server

2. Switch should be able to ping the SNMP server IP and then only we can see the Traps

3. SNMP Traps should flow from switch to SNMP server and vice versa

Wireshark capture

No.	Time	Source	Destination	Protocol	Length	port	Info
2	1.036270	1.1.1.1	1.1.1.2	SNMP	191	20000	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.4.1.37831.9.189.2 1.3.6...
3	1.036282	1:1	1:2	SNMP	211	20001	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.4.1.37831.9.189.2 1.3.6...
4	1.036393	1.1.1.2	1.1.1.1	ICMP	219	20000	Destination unreachable (Port unreachable)
5	1.036400	1:2	1:1	ICMPv6	259	20001	Destination unreachable (Port unreachable)
6	1.031703	1:1	1:2	SNMP	211	20001	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.4.1.37831.9.189.2 1.3.6...
7	1.031810	1:2	1:1	ICMPv6	259	20001	Destination unreachable (Port unreachable)
8	1.032642	1.1.1.1	1.1.1.2	SNMP	191	20000	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.4.1.37831.9.189.2 1.3.6...
9	1.032746	1.1.1.2	1.1.1.1	ICMP	219	20000	Destination unreachable (Port unreachable)
10	1.040112	1:1	1:2	SNMP	211	20001	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.4.1.37831.9.189.2 1.3.6...
11	1.040118	1.1.1.1	1.1.1.2	SNMP	191	20000	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.4.1.37831.9.189.2 1.3.6...
12	1.040224	1.1.1.2	1.1.1.1	ICMP	219	20000	Destination unreachable (Port unreachable)
13	1.040227	1:2	1:1	ICMPv6	259	20001	Destination unreachable (Port unreachable)
150	151.489411	1.1.1.1	1.1.1.2	SNMP	296	20000	snmpv2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.2.1.2.2.1.1.73 1.3.6.1.2...


```

error-status: noError (0)
error-index: 0
variable-bindings: 5 items
  1.3.6.1.2.1.1.3.0: 89273
    Object Name: 1.3.6.1.2.1.1.3.0 (iso.3.6.1.2.1.1.3.0)
    Value (Timeticks): 89273
  1.3.6.1.6.3.1.1.4.1.0: 1.3.6.1.4.1.37831.9.189.4.1 (iso.3.6.1.4.1.37831.9.189.4.1)
    Object Name: 1.3.6.1.6.3.1.1.4.1.0 (iso.3.6.1.6.3.1.1.4.1.0)
    Value (OID): 1.3.6.1.4.1.37831.9.189.4.1 (iso.3.6.1.4.1.37831.9.189.4.1)
  1.3.6.1.4.1.37831.9.189.2: 4
    Object Name: 1.3.6.1.4.1.37831.9.189.2 (iso.3.6.1.4.1.37831.9.189.2)
    Value (Integer32): 4
  1.3.6.1.4.1.37831.9.189.3: 4
    Object Name: 1.3.6.1.4.1.37831.9.189.3 (iso.3.6.1.4.1.37831.9.189.3)
    Value (Integer32): 4
  1.3.6.1.2.1.1.5: 537769746360
    Object Name: 1.3.6.1.2.1.1.5 (iso.3.6.1.2.1.1.5)
    Value (OctetString): 537769746360
  
```



No.	Time	Source	Destination	Protocol	Length	port	Info
73	14.023605	1.1.1.2	1.1.1.1	ICMP	74		Echo (ping) request id=0x0001, seq=5/1280, ttl=128 (reply in 74)
74	14.025166	1.1.1.1	1.1.1.2	ICMP	74		Echo (ping) reply id=0x0001, seq=5/1280, ttl=255 (request in 73)
75	14.027237	1.1.1.2	1.1.1.1	ICMP	74		Echo (ping) request id=0x0001, seq=6/1536, ttl=128 (reply in 76)
76	14.028605	1.1.1.1	1.1.1.2	ICMP	74		Echo (ping) reply id=0x0001, seq=6/1536, ttl=255 (request in 75)
77	15.033568	1.1.1.2	1.1.1.1	ICMP	74		Echo (ping) request id=0x0001, seq=7/1792, ttl=128 (reply in 78)
78	15.035178	1.1.1.1	1.1.1.2	ICMP	74		Echo (ping) reply id=0x0001, seq=7/1792, ttl=255 (request in 77)
80	16.051844	1.1.1.2	1.1.1.1	ICMP	74		Echo (ping) request id=0x0001, seq=8/2048, ttl=128 (reply in 81)
81	16.053446	1.1.1.1	1.1.1.2	ICMP	74		Echo (ping) reply id=0x0001, seq=8/2048, ttl=255 (request in 80)
117	52.491420	1.1.1.2	1.1.1.1	ICMP	271	20000	Destination unreachable (Port unreachable)

```

<
> Frame 76: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface \Device\NPF_{78A791C4-C2A8-4F9F-AE06-6313F97647F7}, id 0
> Ethernet II, Src: Techrout_13:1f:f7 (Sc:cc:ff:13:1f:f7), Dst: HP_de:5b:39 (00:68:eb:de:5b:39)
> Internet Protocol Version 4, Src: 1.1.1.1, Dst: 1.1.1.2
v Internet Control Message Protocol
  Type: 0 (Echo (ping) reply)
  Code: 0
  Checksum: 0x5555 [correct]
  [Checksum Status: Good]
  Identifier (BE): 1 (0x0001)
  Identifier (LE): 256 (0x0100)
  Sequence number (BE): 6 (0x0006)
  Sequence number (LE): 1536 (0x0600)
  [Request frame: 75]
  [Response time: 1.368 ms]
  > Data (32 bytes)
  
```

No.	Time	Source	Destination	Protocol	Length	port	Info	Des port
4	4.988997	1::2	1::1	ICMPv6	94		Echo (ping) request id=0x0001, seq=100, hop limit=128 (reply in 5)	
5	4.982804	1::1	1::2	ICMPv6	94		Echo (ping) reply id=0x0001, seq=100, hop limit=64 (request in 4)	
6	5.992382	1::2	1::1	ICMPv6	94		Echo (ping) request id=0x0001, seq=101, hop limit=128 (reply in 7)	
7	5.994449	1::1	1::2	ICMPv6	94		Echo (ping) reply id=0x0001, seq=101, hop limit=64 (request in 6)	
9	7.009838	1::2	1::1	ICMPv6	94		Echo (ping) request id=0x0001, seq=102, hop limit=128 (reply in 10)	
10	7.010926	1::1	1::2	ICMPv6	94		Echo (ping) reply id=0x0001, seq=102, hop limit=64 (request in 9)	
12	8.025195	1::2	1::1	ICMPv6	94		Echo (ping) request id=0x0001, seq=103, hop limit=128 (reply in 13)	
13	8.027043	1::1	1::2	ICMPv6	94		Echo (ping) reply id=0x0001, seq=103, hop limit=64 (request in 12)	

```

<
> Frame 9: 94 bytes on wire (752 bits), 94 bytes captured (752 bits) on interface \Device\NPF_{78A791C4-C2A8-4F9F-AE06-6313F97647F7}, id 0
> Ethernet II, Src: HP_de:5b:39 (00:68:eb:de:5b:39), Dst: Techrout_13:1f:f7 (Sc:cc:ff:13:1f:f7)
> Internet Protocol Version 6, Src: 1::2, Dst: 1::1
v Internet Control Message Protocol v6
  Type: Echo (ping) request (128)
  Code: 0
  Checksum: 0xd40d [correct]
  [Checksum Status: Good]
  Identifier: 0x0001
  Sequence: 102
  [Response in: 10]
  > Data (32 bytes)
    Data: 6162636465666768696a6b6c6d6e6f707172737475767768...
    [Length: 32]
  
```

