



Test Report (TR S2510-PoE-DC)
Patch Version 2.2.0C Build 71585



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1. Introduction

The document communicates the test result for mentioned test-cases of TR S2510-PoE-DC.

2. About this test report

This Test Report provides information for TACACS features.

Present software version- Version 2.2.0C Build 71585;

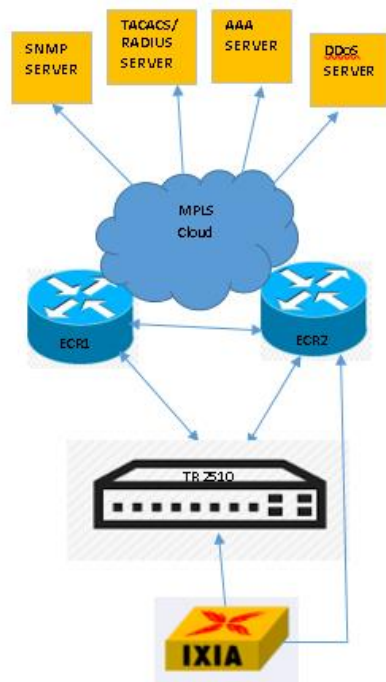
Present hardware version- V1.0;

3. Test Reports

A. RJIL-IP-QA-DS-SYS-030

To check support of TACACS/ RADIUS feature support.

Topology



Configuration: -

TR S2510POE

Configuration:

```
aaa authentication login default group tacacs+ local
aaa authentication enable default none
aaa authorization commands 15 default group tacacs+
aaa authorization config-commands
aaa authorization exec default group tacacs+
aaa accounting exec default start-stop group tacacs+
aaa accounting commands 0 default stop-only group tacacs+
aaa accounting commands 15 default stop-only group tacacs+
!
interface GigaEthernet0/1
 ip address 1.1.1.1 255.255.255.0
 no ip directed-broadcast
 ip http firewalltype 0
```

Test Tacacs+ server configuration

Authentication:

```

- <UserGroup>
  <Name>Network Engineering</Name>
  <AuthenticationType>File</AuthenticationType>
  - <Users>
    - <User>
      <Name>user1</Name>
      <LoginPassword DES="" ClearText="111"> </LoginPassword>
      <EnablePassword DES="" ClearText="333"/>
      <CHAPPassword DES="" ClearText=""> </CHAPPassword>
      <OutboundPassword DES="" ClearText=""> </OutboundPassword>
    </User>
    - <User>
      <Name>user2</Name>
      <LoginPassword DES="" ClearText="222"> </LoginPassword>
      <EnablePassword DES="" ClearText="444"/>
      <CHAPPassword DES="" ClearText=""> </CHAPPassword>
      <OutboundPassword DES="" ClearText=""> </OutboundPassword>
    </User>
  </Users>
</UserGroup>

```

Authentication:

We can login to different level by setting

Authorization:

```

24
25 <Shell> <!--note that the login and exit commands are always permitted-->
26   <!--Permit>configure</Permit--> <!--this will allow configure command -->
27   <!--Deny>show running-config</Deny--> <!--this will deny the user to run 'show running-config' -->
28   <!--Permit>enable</Permit--> <!--this will allow this group to run enable command -->
29   <!--Deny>show bgp all</Deny--> <!--this will deny this group to run show bgp all command -->
30   <!--Permit>show bgp .*</Permit--><!--this will deny this group to run other show bgp commands -->
31   <Permit>.*show.*</Permit> <!--This will allow all show commands -->
32   <Permit>.*config.*</Permit>
33   <Permit>.*debug.*</Permit>
34   <Deny>reboot</Deny> <!--This will deny all other commands -->
35

```

Test Result:

```
router#reboot
Command Authorization Failure!
Switch#Jan  1 18:31:45 AAA/AUTHOR(13): status = START
Jan  1 18:31:45 AAA/AUTHOR(13): user = 'user1'
Jan  1 18:31:45 AAA/AUTHOR(13): author_type=COMMANDS, service=SHELL, cmd_level=15
Jan  1 18:31:45 AAA/AUTHOR(13): Using 'default' method list
Jan  1 18:31:45 AAA/AUTHOR(13): Method = GROUP(TACACS+)
Jan  1 18:31:45 TACACS: Server=192.168.25.16, userid=13
Jan  1 18:31:45 AAA/AUTHOR(13): Wait server reply
Jan  1 18:31:45 TACACS: Socket 70 connected, start author, userid=13
Jan  1 18:31:45 TACACS: cmd=reboot
Jan  1 18:31:45 TACACS: Send packet...
c002010009fdb5e80000002720000101050100020d0a757365723131736572766963653d736865
6c6c636d643d7265626f6f74
Jan  1 18:31:45 TACACS: Server=192.168.25.16, userid=13
Jan  1 18:31:45 TACACS: Send packet ok, waiting server's reply
Jan  1 18:31:45 TACACS: Response from server 192.168.25.16
Jan  1 18:31:45 TACACS: Recv packet...
c0 02 02 00 09 fd b5 e8 00 00 00 55 10 00 00 4f 00 00 54 68 65 20 63 6f 6d 6d 61 6e 64 20 27 72
65 62 6f 6f 74 27 20 69 73 20 6e 6f 74 20 61 75 74 68 6f 72 69 7a 65 64 20 66 6f 72 20 75 73 65
72 20 75 73 65 72 31 20 61 6e 64 20 63 6c 69 65 6e 74 20 31 39 32 2e 31 36 38 2e 32 35 2e 32 33
35
Jan  1 18:31:45 TACACS: Receive author reply, status=FAIL
Jan  1 18:31:45 TACACS: file:tacacs_lib.c, line:505
Jan  1 18:31:45 TACACS: return message to aaa
Jan  1 18:31:45 AAA/AUTHOR(13): status = FAIL
```

ACCOUNTING:

```
router>Jan  4 00:57:10 AAA/ACCT/START(16): user = 'user1'
Jan  4 00:57:10 AAA/ACCT/START(16): acct_type = EXEC
Jan  4 00:57:10 AAA/ACCT/START(16): Using 'default' method list
Jan  4 00:57:10 AAA/ACCT/START(16): Method = GROUP(TACACS+)
Jan  4 00:57:10 AAA/ACCT/START(16): Wait server reply
Jan  4 00:57:10 AAA/ACCT/START(16): status = SUCCESS

router>
router>ena
Switch#Jan  4 00:57:28 AAA/CREATE_USER: user_id=0x80be760c
Jan  4 00:57:28 User user1 enter privilege mode from console 0, level = 15
```



```
Jan 4 00:57:28 AAA/FREE_USER: user_id=80BE760C
Jan 4 00:57:28 AAA/ACCT/STOP(16): user = 'user1'
Jan 4 00:57:28 AAA/ACCT/STOP(16): acct_type = COMMANDS
Jan 4 00:57:28 AAA/ACCT/STOP(16): Using 'default' method list
Jan 4 00:57:28 AAA/ACCT/STOP(16): Method = GROUP(TACACS+)
Jan 4 00:57:28 AAA/ACCT/STOP(16): Wait server reply
Jan 4 00:57:28 AAA/ACCT/STOP(16): status = SUCCESS
```