

Test Case-64

Test Name: RJIL-IP-QA-DS-SYS-069

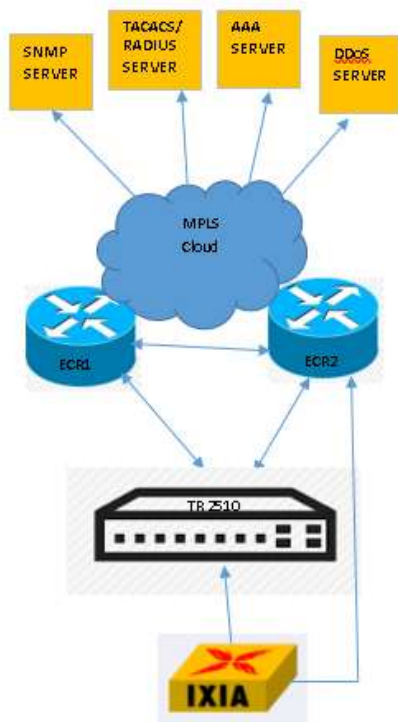
Test Objective: To check support for Standard and Extended Access Lists

Test Configuration:

```
ip access-list extended testACL
permit ip any 12.0.0.7 255.255.255.255
deny ip any any
!
ip access-group testACL vlan 334
!
vst level 7 local 1 remote 2
!
interface GigaEthernet0/3
switchport trunk vlan-allowed 333-335,885
switchport mode trunk
!
MAC ACL
mac access-list test
permit host 0000.0000.1111 host 0000.0000.2222
deny any any
!
interface GigaEthernet0/1
mac access-group test
!
Standard ACL
ip access-list standard test
permit 81.0.0.2 255.255.255.255
deny any
```

```
!  
interface GigaEthernet0/1  
ip access-group test  
!  
Extended ACL  
ip access-group test vlan 1  
!  
ip access-list extended test  
permit ip any 81.0.0.2 255.255.255.255  
deny ip any any  
!
```

Test Set up (Including Pre requisites): Switch ,IXIA,ECR1,ECR2



Procedure: Connect switch to IXIA

Action: MAC ACL

Enable access lists matching the destination mac address on the switch

Standard ACL

Configure the standard access list and apply it to GigaEthernet0/ 1

Send packets with source IP addresses 81.0.0.2, 81.0.0.3, and 81.0.0.4 from IXIA to port1

Extended ACL

Configure the access list and apply it to VLAN 1

The message with the destination IP address of 81.0.0.2 , 81.0.0.3 , and 81.0.0.4 is sent to port1

Response: MAC ACL

On the other port of switch , only the packets whose source and destination MAC addresses match 0000.0000.1111 and 0000.0000.2222 are received, but no other packets are received.

Standard ACL

The packet captured on other port of switch is the packet with the source IP address of 81.0.0.2 and the packets of 81.0.0.3 and 81.0.0.4 are denied.

Extended ACL

The packet captured on port2 is the packet with the destination IP address of 81.0.0.2 and the packets of 8.0.0.3 and 81.0.0.4 are denied.

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Expected Result: Switch supports Standard and Extended Access Lists as applied.

Actual Result:

The screenshot shows a network configuration tool interface. The top part displays a configuration table for L2-3 Traffic Items. The bottom part shows a 'Flow Statistics' table with columns for Tx Port, Rx Port, and various rate metrics.

Transmit State	Traffic Item Name	Enabled	Flow Groups	Tx Ports	Rx Ports	Endpoint/Encapsulation Sets
1	IPv4	<input type="checkbox"/>	5	2	2	2
2	IPv6	<input type="checkbox"/>	2	2	2	2
3	MAC	<input type="checkbox"/>	1	1	1	1
4	QoS_333	<input type="checkbox"/>	6	2	2	6
5	QoS_335	<input type="checkbox"/>	2	2	2	2
6	Broadcast Storm	<input type="checkbox"/>	1	1	1	1
7	Unknown Unicast	<input type="checkbox"/>	1	1	1	1
8	Multicast Storm	<input type="checkbox"/>	1	1	1	1
9	ACL	<input checked="" type="checkbox"/>	10	1	1	1

Tx Port	Rx Port	Rate (bps)	Rx L1 Rate (bps)	Rx Bytes	Tx Rate (Bps)	Rx Rate (Bps)	Tx Rate (Kbps)	Rx Rate (Kbps)	Tx Rate (Mbps)	Rx Rate (Mbps)
5	To CPE LAN	3,280,000	0.000	988,794,000	1,249,500,000	0.000	9,996,000,000	0.000	9,996,000	0.000
6	To CPE LAN	3,280,000	0.000	988,794,000	1,249,500,000	0.000	9,996,000,000	0.000	9,996,000	0.000
7	To CPE LAN	5,360,000	10,135,360,000	2,073,126,000	1,250,250,000	1,250,250,000	10,002,000,000	10,002,000,000	10,002,000	10,002
8	To CPE LAN	5,360,000	0.000	988,794,000	1,250,250,000	0.000	10,002,000,000	0.000	10,002,000	0.000
9	To CPE LAN	5,360,000	0.000	988,794,000	1,250,250,000	0.000	10,002,000,000	0.000	10,002,000	0.000
10	To CPE LAN	5,360,000	0.000	988,794,000	1,250,250,000	0.000	10,002,000,000	0.000	10,002,000	0.000