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

!

west 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
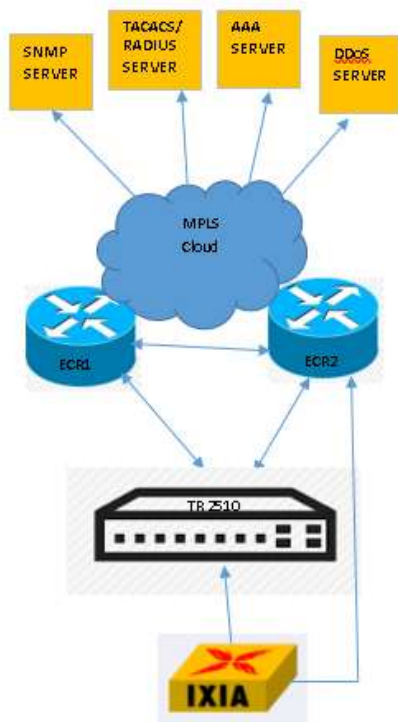
Procedure: Connect switch to IXIA

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: