

## Test Case-19

**Test Name:** RJIL-IP-QA-DS-SYS-019

**Test Objective:** Switch shall support ARP

**Test Configuration:**

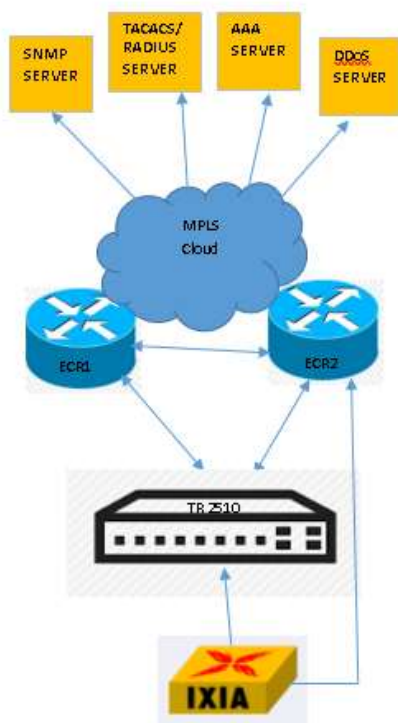
!

```
interface VLAN883
```

```
ip address 10.64.89.228 255.255.255.248
```

```
ipv6 address 2405:200:1410:1010::84/124
```

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



**Procedure:** Connect the ports Gi0/1 and Gi0/2 of the switch to the uplink and we can see the arp using show arp command

| Action:  |              | Response: |   |          |            |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
|--|--------------|-----------|---|----------|------------|----------|------------------|------|-----------|----|--------------|---|-------------------|------|---------|----|--------------|---|-------------------|------|------------|----|--------------|-----|-------------------|------|-----------|----|--------------|---|-------------------|------|------------|----|-------------|---|-------------------|------|-------|
| <b>1</b>   | show arp     | <b>1</b>  | Switch should be able to resolve the mac address against the IP address |          |            |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| <p><b>Expected Result:</b> We can see the total ARP entries against each connected device on switch by using show arp command</p>  |              |           |   |          |            |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| <p><b>Actual Result:</b> Switch#show arp</p> <p>Total ARP entries 5</p> <table border="1"> <thead> <tr> <th>Protocol</th> <th>Address</th> <th>Age(min)</th> <th>Hardware Address</th> <th>Type</th> <th>Interface</th> </tr> </thead> <tbody> <tr> <td>IP</td> <td>10.64.89.228</td> <td>-</td> <td>5c:cc:ff:13:20:e9</td> <td>ARPA</td> <td>VLAN883</td> </tr> <tr> <td>IP</td> <td>10.64.89.229</td> <td>0</td> <td>00:00:1d:c9:fd:b9</td> <td>ARPA</td> <td>v883(g0/3)</td> </tr> <tr> <td>IP</td> <td>192.168.1.11</td> <td>200</td> <td>3c:08:f6:ad:53:86</td> <td>ARPA</td> <td>v1(g0/10)</td> </tr> <tr> <td>IP</td> <td>10.64.89.226</td> <td>0</td> <td>28:6f:7f:a9:66:bf</td> <td>ARPA</td> <td>v883(g0/1)</td> </tr> <tr> <td>IP</td> <td>192.168.1.1</td> <td>-</td> <td>5c:cc:ff:13:20:e9</td> <td>ARPA</td> <td>VLAN1</td> </tr> </tbody> </table> <p>Switch#</p> |              |           |   | Protocol | Address    | Age(min) | Hardware Address | Type | Interface | IP | 10.64.89.228 | - | 5c:cc:ff:13:20:e9 | ARPA | VLAN883 | IP | 10.64.89.229 | 0 | 00:00:1d:c9:fd:b9 | ARPA | v883(g0/3) | IP | 192.168.1.11 | 200 | 3c:08:f6:ad:53:86 | ARPA | v1(g0/10) | IP | 10.64.89.226 | 0 | 28:6f:7f:a9:66:bf | ARPA | v883(g0/1) | IP | 192.168.1.1 | - | 5c:cc:ff:13:20:e9 | ARPA | VLAN1 |
| Protocol   | Address      | Age(min)  | Hardware Address  | Type     | Interface  |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| IP   | 10.64.89.228 | -         | 5c:cc:ff:13:20:e9   | ARPA     | VLAN883    |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| IP   | 10.64.89.229 | 0         | 00:00:1d:c9:fd:b9   | ARPA     | v883(g0/3) |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| IP   | 192.168.1.11 | 200       | 3c:08:f6:ad:53:86   | ARPA     | v1(g0/10)  |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| IP   | 10.64.89.226 | 0         | 28:6f:7f:a9:66:bf   | ARPA     | v883(g0/1) |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |
| IP   | 192.168.1.1  | -         | 5c:cc:ff:13:20:e9   | ARPA     | VLAN1      |          |                  |      |           |    |              |   |                   |      |         |    |              |   |                   |      |            |    |              |     |                   |      |           |    |              |   |                   |      |            |    |             |   |                   |      |       |