

Test Case-17

Test Name: RJIL-IP-QA-DS-SYS-017

Test Objective: To check support of IGMP V3

Test Configuration:

Switch Global and interface config (interface connected to ixia) is given below:

```
ip igmp-snooping
```

```
ip igmp-snooping v3
```

```
ip igmp-snooping querier
```

```
ip igmp-snooping sensitive
```

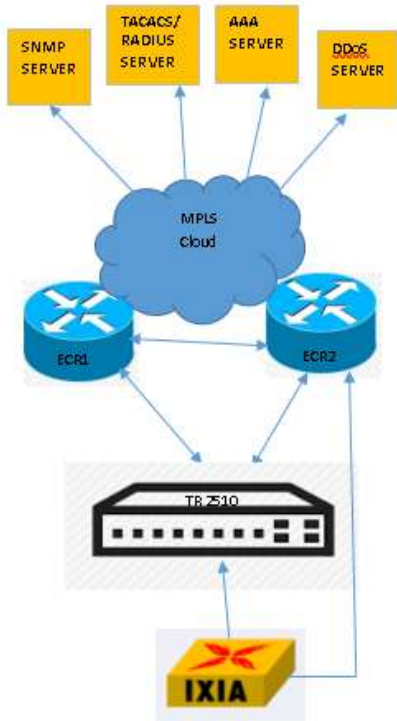
```
interface GigaEthernet0/3
```

```
ip igmp-snooping v3-compatible
```

```
switchport trunk vlan-allowed 335
```

```
switchport mode trunk
```

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



Procedure: Connect Switch to ECR1, ECR2 and IXIA

Action:

Response:

1

IGMP traffic is generated from IXIA and is passed through the switch towards ECR.
Command: show ip igmp-snooping group.

1

Switch must be able to pass through the IGMP traffic coming from IXIA towards ECR. switch should show the multicast groups.

Expected Result: Switch can pass through IGMP packets

Actual Result :

```

vendor@ANSIBLE~
335 232.0.1.0 IGMP g0/3
GUICHECK_config#show ip igmp-snooping groups

The total number of groups 5

Vlan Group      Type Port(s)
-----
335 232.0.1.1   IGMP g0/3
335 232.0.1.2   IGMP g0/3
335 232.0.1.3   IGMP g0/3
335 232.0.1.4   IGMP g0/3
335 232.0.1.0   IGMP g0/3
GUICHECK_config#show ip igmp-snooping groups

The total number of groups 5

Vlan Group      Type Port(s)
-----
335 232.0.1.1   IGMP g0/3
335 232.0.1.2   IGMP g0/3
335 232.0.1.3   IGMP g0/3
335 232.0.1.4   IGMP g0/3
335 232.0.1.0   IGMP g0/3
GUICHECK_config#

```

GQ3ZC00YTczLWE3NmQtMzBjODAxN1NwYxYmQy@thr

Tx Port	Rx Port	Traffic Item	Source/Dest Endpoint Pair	Tx Rate (Mbps)	Rx Rate (Mbps)	Packet Loss Duration (ms)	Loss %	Tx Frames	Rx Expected Frames	Rx Frames
1 To BCR	To CPE LAN	Multicast IGMPv3	2.2.2.2-232.0.1.2	9.996	6.000	95,080,861.200	98.936	80,086,548	80,086,548	852,497
2 To BCR	To CPE LAN	Multicast IGMPv3	2.2.2.2-232.0.1.0	10.002	10.002	95,058,078.000	98.912	80,086,549	80,086,549	871,484
3 To BCR	To CPE LAN	Multicast IGMPv3	2.2.2.2-232.0.1.1	10.002	7.998	95,065,100.400	98.919	80,086,549	80,086,549	965,632
4 To BCR	To CPE LAN	Multicast IGMPv3	2.2.2.2-232.0.1.3	10.002	4.002	95,094,550.800	98.950	80,086,548	80,086,548	841,089
5 To BCR	To CPE LAN	Multicast IGMPv3	2.2.2.2-232.0.1.4	10.002	1.998	95,104,230.000	98.960	80,086,548	80,086,548	833,023

Traffic Running for 28:41:43