

Test Case-37

Test Name: RJIL-IP-QA-DS-SYS-038

Test Objective: Verify the Switch must control broadcast and multicast storms on a per port and per VLAN basis

Test Configuration:

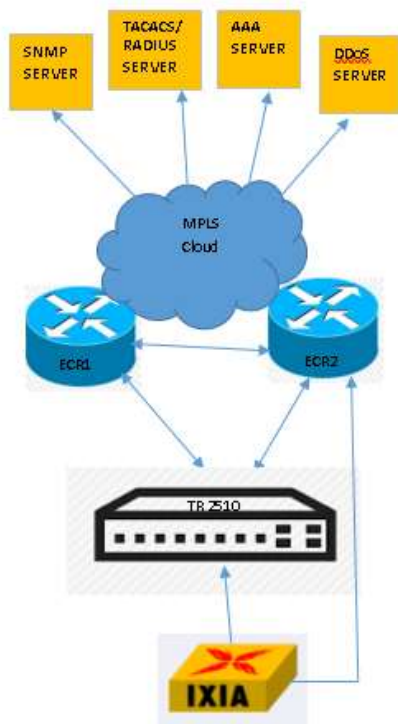
Multicast

```
interface GigaEthernet0/6
storm-control multicast threshold 10
```

Broadcast

```
interface GigaEthernet0/6
storm-control broadcast threshold 10
```

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



Procedure: Connect Switch to ECR1, ECR2 and IXIA

Action:

Response:

| | | | |
|---|---|----------|---|
| | | | |
| 1 | <p>Generate the traffic from IXIA towards switch through port</p> <p>Show interface GigaEthernet0/6</p> | 1 | <p>Switch controls broadcast and multicast storms on a per port basis</p> |
| Expected Result: Switch controls broadcast and multicast storms on a per port basis | | | |
| <p>Actual Result:</p> <p>GUICHECK#sh run int gi 0/3</p> <p>Building configuration...</p> <p>Current configuration:</p> <p>!</p> <p>interface GigaEthernet0/3</p> <p>switchport trunk vlan-allowed 333,335,885</p> <p>switchport mode trunk</p> <p>storm-control broadcast threshold 200</p> <p>storm-control multicast threshold 300</p> <p>storm-control unicast threshold 100</p> <p>GUICHECK#</p> | | | |

ixNetwork (REST Session 1)[ERPS_Techroute_new.ixnctd]

File Home Automation Results / Reports Views Configuration Help Pritam Padya

L2-3 Traffic L4-7 Traffic Traffic Actions Add L2-3 Traffic Edit Traffic Item Edit Flow Group Regenerate Apply Changes Delete Traffic Options Find Grid Operations Grid/Column Profiles Group Rows By Please select one or more Flow Groups Rate Control

8.5.0 What's New in IxNetwork 8.5.0 EA **NEW** IxNetwork Linux API Server

CLICK HERE TO FIND OUT MORE

Overview

- Scenario
- Ports
- Chassis
- Protocols
- Protocol Interfaces
 - IGMP
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- Traffic
 - L2-3 Traffic Items
 - L2-3 Flow Groups
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- Captures
 - To CPE LAN - Data
 - To CPE LAN - Control

L2-3 Traffic Items

| | Transmit State | Traffic Item Name | Enabled | Flow Groups | Tx Ports | Rx Ports | Endpoint/Encapsulation Sets |
|---|----------------|-------------------|-------------------------------------|-------------|----------|----------|-----------------------------|
| 1 | ▶ | IPv4 | <input type="checkbox"/> | 2 | 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"/> | 5 | 2 | 2 | 5 |
| 5 | ▶ | QoS_335 | <input checked="" type="checkbox"/> | 2 | 2 | 2 | 2 |
| 6 | ▶ | Broadcast Storm | <input checked="" type="checkbox"/> | 1 | 1 | 1 | 1 |
| 7 | ▶ | Unknown unicast | <input checked="" type="checkbox"/> | 1 | 1 | 1 | 1 |
| 8 | ▶ | Multicast Storm | <input checked="" type="checkbox"/> | 1 | 1 | 1 | 1 |

Summary Settings Tracking and Latency All

Select Views Global Protocol Statistics L2-L3 Test Summary Statistics **Flow Statistics** Traffic Item Statistics

| | Tx Port | Rx Port | Traffic Item | Source/Dest Endpoint Pair | Source/Dest Port Pair | Tx Rate (Mbps) | Rx Rate (Mbps) | Packet Loss Duration (ms) | Loss % | Tx Frames | Rx Frames |
|---|------------|------------|-----------------|---------------------------|-----------------------|----------------|----------------|---------------------------|--------|-----------|-----------|
| 1 | To CPE LAN | To ECR | QoS_335 | 2.2.2.1-2.2.2.2 | | 49.998 | 49.998 | 0.000 | 0.000 | 141,080 | 141,08 |
| 2 | To ECR | To CPE LAN | QoS_335 | 2.2.2.2-2.2.2.1 | | 49.998 | 49.998 | 0.000 | 0.000 | 141,080 | 141,08 |
| 3 | To CPE LAN | To ECR | Broadcast Storm | | To CPE LAN-To ECR | 39.996 | 2.400 | 31,759.200 | 93.798 | 112,864 | 7,00 |
| 4 | To CPE LAN | To ECR | Unknown unicast | | To CPE LAN-To ECR | 30.000 | 1.200 | 32,459.600 | 95.866 | 84,648 | 3,49 |
| 5 | To CPE LAN | To ECR | Multicast Storm | | To CPE LAN-To ECR | 34.998 | 3.600 | 30,259.200 | 89.368 | 98,756 | 10,50 |

1/1 (total rows 5) All Loss Throughput Latency

Traffic Running for 00:00:35

11:45 AM 3/30/2020