

Test Case-04

Test Name: RJIL-IP-QA-DS-SYS-004

Test Objective: To check support of shaper and policer profiles on uplink and downlink interfaces

Test Configuration:

VLAN creation

vlan **YYY**----- Data Vlan Number(**YYY**)

Qos policy

policy-map **\$Policy Name\$**

classify vlan **X** ----- **X** is the service Vlan

action cos **\$P Bit number\$** cir **<XX>** bc **<XX>** tcm-end

Policer Configuration:

interface GigaEthernet**0/X** ----- **X** is customer facing port

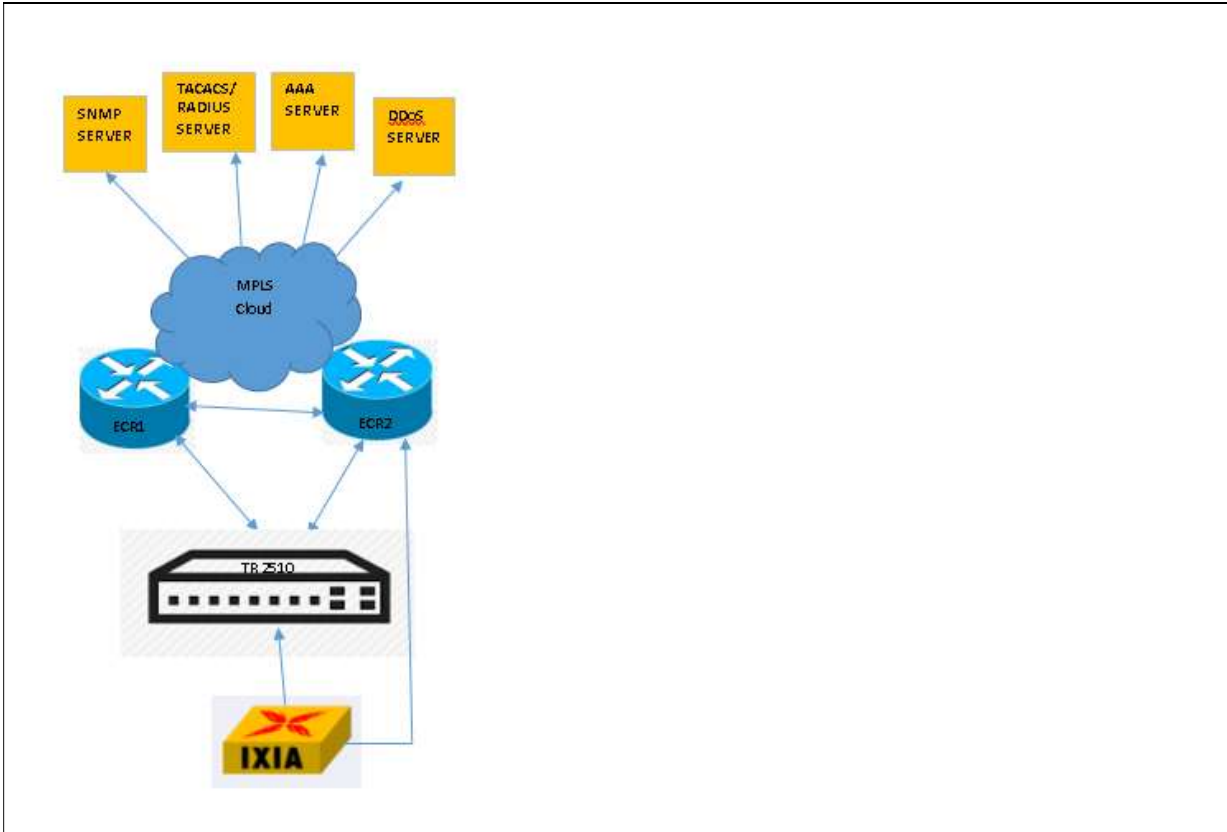
qos policy **Policy_name** ingress

Shaper Configuration:

interface GigaEthernet**0/X**----- **X** is customer facing port

switchport rate-limit **<XX>** egress----- **XX** is bandwidth, per unit equals 64Kbps

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



Procedure: Connect switch to IXIA

Action: $CIR = (BW * 1024) / 64$
 $bc = ((BW * 1024)) / 8 * 1.5$

Response: $CIR = 55Mbps \rightarrow 55 * 1024 = 56320Kbps$ --
 $CIR = 56320 / 64 = 880$

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Expected Result: Switch will be able to configure policer and shaper on uplink and down link interfaces

Actual Result:

Statistics Tools | InNetwork (REST Session1)[ERPS_Techroute_new.knctgf]

File Home Automation Results / Reports Views Data Formula / Alerts Design

Overview Port Traffic

Clear All Statistics Custom Traffic View Drill Down Ingress/Egress Statistics Stat View Profiles Add to New Add to Existing Take Snapshot More Actions

Overview

- Scenario
- Ports
- Chassis
- Protocols
- Protocol Interfaces
 - IGMP
 - Static
- Traffic
 - L2-3 Traffic Items
 - L2-3 Flow Groups
- Impairments
- QuickTests
- Captures

	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"/>	6	1	1	1
4		QoS_333	<input type="checkbox"/>	2	2	2	2
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		policer profile	<input checked="" type="checkbox"/>	1	1	1	1
10		shaper profile	<input checked="" type="checkbox"/>	1	1	1	1

Summary Settings Tracking and Latency All

Select Views... Global Protocol Statistics L2-L3 Test Summary Statistics Port Statistics Port CPU Statistics Flow Statistics

	Tx Port	Rx Port	Tx Rate (Bps)	Rx Rate (Bps)	Tx Rate (bps)	Rx Rate (bps)	Tx Rate (Kbps)	Rx Rate (Kbps)	Tx Rate (Mbps)	Rx Rate (Mbps)	Cut-Through Avg Latency (ns)
1	To CPE LAN	To ECR	509,...	50,000,250.000	19,200,750.000	400,002,000.000	153,606.000	400,002.000	153.606	400.002	12,089.2
2	To ECR	To CPE LAN	592,...	37,500,000.000	12,495,750.000	300,000,000.000	99,966.000	300,000.000	99.966	300.000	206.9

Statistics Tools | InNetwork (REST Session1)[ERPS_Techroute_new.knctgf]

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1	To CPE LAN	To ECR	83,500	49,999,500.000	12,495,750.000	399,996,000.000	99,966.000	399,996.000	99.996	399.996	1,370.9
2	To ECR	To CPE LAN	30,000	37,500,000.000	19,200,000.000	300,000,000.000	153,600.000	300,000.000	153.600	300.000	32.4