

AI Datacenter 64\*800G SONiC Switch

NADDOD Pte.Ltd.

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### - Overall Test Conclusion

The N9500-64OC device demonstrated excellent performance across all functional tests within the SONiC system environment. All test items were successfully completed without any major defects identified that could affect normal operation. The device fully meets design specifications in critical domains such as L2/L3 network functionalities, QoS mechanisms, and system management, exhibiting robust stability, reliability, and performance metrics that align with industry standards and practical application requirements.

### **\_\_**, Functional Test Conclusion

#### 2.1 L2 Functional Tests

Link Aggregation (802.3ad): The device supports multi-link aggregation, enabling seamless traffic failover upon link disconnection. The load balancing mechanism of aggregated ports operates normally without packet loss, verifying the redundancy and bandwidth expansion capabilities.

VLAN Functionality : It accurately processes VLAN tagging as configured, forwards untagged/tagged packets correctly, and ensures error-free cross-port VLAN communication, compliant with IEEE 802.1q standards.

MAC Address Table Specifications: The MAC address table can learn up to 8,191 entries, meeting the specified requirements. The address learning and aging mechanisms function properly.

Spanning Tree Protocol (STP): The device achieves rapid convergence to eliminate network loops, with port state transitions complying with standards to ensure no loop risks.

#### 2.2 L3 Functional Tests

ARP Protocol: It correctly handles ARP requests/responses, supports invalid MAC address filtering, and the ARP table can accommodate up to 16,383 entries, meeting large-scale network



requirements.

BGP Routing: It stably establishes connections with external neighbors, learns and forwards routes, and supports IPv4/IPv6 routing table specification tests (capable of learning 500,000 and 610,000 routes respectively). The routing convergence speed meets expectations.

ECMP Load Balancing : Multipath forwarding functions normally, distributing traffic proportionally across links without significant packet loss or skew.

IPv6 Support: It fully supports IPv6 address configuration, neighbor discovery, and routing forwarding, with good compatibility with the IPv4 protocol stack. Bidirectional communication remains error-free in tests.

#### 2.3 QoS Mechanism Tests

Traffic Classification & Marking: Classification and marking based on COS/DSCP are accurate, mapping packets to specified queues. The egress marking modification function meets design requirements.

Priority Flow Control (PFC) : Supports symmetric/asymmetric PFC to pause traffic by priority. Watchdog and Watermark mechanisms prevent congestion effectively, ensuring lossless transmission.

Queue Scheduling & Shaping : The WRR scheduling algorithm allocates bandwidth by weight, and port/queue shaping precisely limits traffic rates, compliant with QoS service level agreements (SLAs).

Congestion Management (WRED/ECN): Dynamically drops packets based on queue depth. The ECN marking function correctly feedbacks to senders during congestion, optimizing network transmission efficiency.

#### 2.4 System Management Tests

SNMP & Traps: Supports SNMPv2c for remote device status acquisition. Trap alarms are real-time, accurately reporting events like port state changes.



Logging & Remote Management: Rsyslog functions normally for real-time log transmission to remote servers. SSH/SCP/SFTP services are stable, enabling secure remote login and file transfer.

Mirroring: Copies traffic from specified ports to monitoring ports, supporting multi-source port mirroring with complete data capture for network monitoring scenarios.

Dynamic Port Breakout (DPB): Supports breaking 800G ports into 2x200G/4x200G modes. Post-breakout, port rates and forwarding functions remain normal, meeting flexible networking needs.

#### 2.5 High Availability Tests

COPP Protection : Defends against CPU-directed malicious traffic, maintaining CPU utilization <20% under high load to ensure stable system operation.

Zero Touch Provisioning (ZTP) : Supports automatic configuration acquisition via DHCP+TFTP, enabling rapid system initialization and configuration loading after reboot to reduce deployment complexity.

#### **2.6 Performance Metrics Conclusion**

RFC-2544 Testing: The device's metrics including throughput, latency, and packet loss rate comply with requirements. It achieves line-rate forwarding without packet loss, demonstrating excellent performance.

Large-Scale Specification Testing: Both IPv4/IPv6 routing tables and ARP/MAC address entries reach the design upper limits, with no significant decrease in query and forwarding efficiency.

#### 2.7 Testing Environment

The switch testing environment consists of the Device Under Test (DUT), testing instruments, servers, routers, and configuration terminals. Most test items are conducted between the DUT and instruments. Servers are used to verify the DUT's support for functions such as RADIUS and



SYSLOG. For specific test items and environments, refer to the detailed descriptions in each test section.



# Ξ、L2

# 3.1 Link Aggregation Function Test

Test Items	Link Aggregation Function Test
Test Content	Verify the Accuracy of DUT Link Aggregation Function
Test Topology	DUT1 DUT2
Test Steps	<ol> <li>Connect devices as per the test environment.</li> <li>Set the ports connected between DUT1 and DUT2 to be aggregated into one group.</li> <li>The test instrument's Port A sends a broadcast (with MAC address all "F") to Port B.</li> <li>Disconnect one of the links.</li> <li>The test instrument's Port A sends N unicast flows to Port B (where N is greater than the number of aggregated links), and check whether Port B can receive the packets sent by Port A ,Check1.</li> <li>Disconnect one of the links.</li> <li>The test instrument's Port A sends two unicast data flows with the same priority to Port B. The traffic of Data Flow 1 exceeds the line rate of the aggregated port, and the traffic of Data Flow 2 is lower than the line rate of the aggregated port. Observe whether Port B can receive the two data flows sent by Port A, Check2.</li> </ol>
Expected Results	Check1: The test instrument's Port B should be able to receive the packets sent from Port A. Check2: The test instrument's Port B should be able to receive the two data flows sent from Port A.
Actual Test Results	config portchannel add PortChannel12 config portchannel member add PortChannel12 Ethernet4 config portchannel member add PortChannel12 Ethernet8 config vlan add 100 config vlan member add 100 PortChannel12 -u config vlan member add 100 Ethernet16 -u



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Test results	PASS
Remarks	

## **3.2 LLDP Function Test**

Test Items	LLDP Test
Test Content	The test device can normally send and receive LLDP and parse it.
Test Topology	DUT1 DUT2
Test Steps	<ol> <li>Set up the test environment as per the diagram.</li> <li>Enable LLDP on the device and third-party devices.</li> <li>View the LLDP neighbor information of the device, Check1.</li> <li>View the LLDP neighbor information of the peer third-party device, Check2.</li> </ol>
Expected Results	Check1: The device can correctly process the LLDP packets from the third-party device and display normal information. Check2: The LLDP packets sent by the device can be parsed by the third-party device, and the content is normal.
Actual Test Results	root@sonic:/home/admin# show lldp table Capability codes: (R) Router, (B) Bridge, (O) Other LocalPort RemoteDevice RemotePortID Capability RemotePortDescr 



root@sonic:/home/admin# show lldp table Capability codes: (R) Router, (B) Bridge, (O) Other LocalPort RemoteDevice RemotePortID Capability RemotePortDescr \_\_\_\_\_ Ethernet40 sonic Eth6/1(Port6) BR Ethernet40 Ethernet44 sonic Eth6/2(Port6) BR Ethernet44 Ethernet232 sonic Eth30(Port30) BR Ethernet232 eth0 68:21:5f:34:14:a2 BR Ethernet Port on unit 1, port 15 \_\_\_\_\_ Total entries displayed: 4 root@sonic:/home/admin# show lldp global \_\_\_\_\_ LLDP Global configuration: \_\_\_\_\_ **HELLO TIMER 30** SYSTEM NAME sonic SYSTEM DESCRIPTION SONiC Software Version: SONiC.202111.30.6.2.251 -HwSku: Naddod-N9500-64OC - Distribution: Debian 11.11 - Kernel: 5.10.0-8-2-amd64 root@sonic:/home/admin# show lldp neighbors \_\_\_\_\_ LLDP neighbors: \_\_\_\_\_ Interface: eth0, via: LLDP, RID: 2, Time: 0 day, 00:00:15 Chassis: ChassisID: mac 68:21:5f:34:14:93 SvsDescr: ECS5520-18T Capability: Bridge, on Capability: Router, on Port: PortID: mac 68:21:5f:34:14:a2 PortDescr: Ethernet Port on unit 1, port 15 TTL: 120 MFS: 1522 PMD autoneg: supported: yes, enabled: yes Adv: 10Base-T, HD: yes, FD: yes Adv: 100Base-TX, HD: yes, FD: yes Adv: 1000Base-T, HD: no, FD: yes MAU oper type: 1000BaseTFD - Four-pair Category 5 UTP, full duplex mode VLAN: 120, pvid: yes PPVID: supported: yes, enabled: no PI: 00 27 42 42 03 00 00 02 PI: 88 09 01 PI: 88 09 03 PI: 88 8e LLDP-MED: Device Type: Network Connectivity Device Capability: Capabilities, yes Capability: Policy, yes Capability: Location, yes Capability: Inventory, yes LLDP-MED Location Identification: Type: Civic address Country: TW Inventory: Hardware Revision: R0A



	Firmware Revision: 10.27.14.15 Serial Number: EC1948000847 Manufacturer: edgecore Model: ECS5520-18T
Test results	PASS
Remarks	

## **3.3 VLAN Function Test**

Test Items	VLAN Function Test
Test Content	The test device can forward according to the set VLAN.
Test Topology	DUT1 1 2 3 C A B
Test Steps	<ol> <li>Set up the test environment as per the diagram.</li> <li>Create VLAN 2 and VLAN 3.</li> <li>Configure DUTP1 to join VLAN 2 as untagged and VLAN 3 as tagged.</li> <li>Configure DUTP2 to join VLAN 2 as untagged.</li> <li>Configure DUTP3 to join VLAN 3 as tagged, and check whether the configuration is successful ,Check1.</li> <li>The TGA sends untagged packets, and view the packet reception status on the instrument ,Check2.</li> <li>The TGA sends VLAN 2 tagged packets, and view the packet reception status on the instrument ,Check3.</li> <li>The TGA sends VLAN 3 tagged packets, and view the packet reception status on the instrument ,Check4.</li> <li>The TGA sends VLAN 4 tagged packets, and view the packet reception status on the instrument ,Check5.</li> </ol>
Expected Results	Check1: Configuration and binding are successful. Check2: Only TGB receives the packets, and the packets are untagged. Check3: Only TGB receives the packets, and the packets are untagged. Check4: Only TGC receives the packets, and the packets are VLAN 3 tagged.



	Check5: The pa	ckets are d	liscarded	, and n	o port rec	eives the packets.	
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	3	Ethernet0   tag	ged   disable     		Source In   Link Sele   Server Vr   Server ID	terface:   ction:   f:   Override:	
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	config vlan men	nber add 2	Etherne	t8 -u			
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Actual Test Results	3	Ethernet0	tagged			Source Interface:     Link Selection:     Server Vrf:     Server ID Override:	
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	3	Ethernet0   ta   Ethernet4   ta	gged   disab gged   		Source   Link Se   Server   Server	Interface: lection: Vrf: ID Override:	
	root@sonic:~# root@sonic:~# show vlan c Name VID Member	onfig Mode					
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Test Items	Mac Address Table Entry Specification Test
Test Content	Verification of Device MAC Address Table Entry Specifications
Test Topology	DUTI 1 2 3 C STC B
Test Steps	<ol> <li>set up the test environment as shown in the diagram.</li> <li>Create VLAN 100.</li> <li>Configure ports DUTP1-DUTP3 to join VLAN 100 as untagged members.</li> <li>The test instrument TGA sends 100,000 packets with varying source MAC addresses (total 100,000 unique SMACs) at a rate of 1,000 pps.</li> <li>Clear the packet reception statistics on the instrument.</li> <li>TGB injects 100,000 packets with DMAC set to the SMAC of TGA, then perform Check 1.</li> </ol>
Expected Results	Check1: The number of packets received by TGA minus the number of packets received by TGC equals the number of MAC addresses learned by the DUT.
Actual Test Results	config vlan add 100 config vlan member add 100 Ethernet16 -u config vlan member add 100 Ethernet18 -u config vlan member add 100 Ethernet20 -u rootteonic:~v config vlan member add 100 Ethernet18 -u rootteonic:~v show vlan brief VLAN ID IP Address Ports Port Proxy DHCP Helper DHCP Relay Configuration Ethernet18 untagged disabled Source Interface: Ethernet18 untagged Usabled Source Interface: Ethernet18 untagged Usabled Source Interface: Vlant00 100 Ethernet16 untagged Vlant00 100 Ethernet10 untagged Vlant00 Intervet0 untagged Vla

# 3.4 Mac Address Table Entry Specification Test



Offset	
Start modifier on first byte	Start modifier at offset 0
Type Increment O Decrement O List	○ Random ○ Shuffle □ Use Streams
Details Count: 100000 Step: Repeat: 0 Mask: Seed: 0 Value: 00:10:94:00:00:02 Tip: Enter a start-value from which to begin	00:00:00:00:001 00:00:FF:FF:FF
Fixed load settings	
O Percent (%) : 0.0011	8397632
Frame/sec (fps) : 1000	
O bps : 118397	76
O Kbps : 1183.9	7632
O Mbps : 1.1839	7632
O Inter burst gap (bytes) : 124998	364



<ul> <li>Percent (%) :</li> <li>Frame/sec (fp:</li> <li>bps :</li> <li>Kbps :</li> <li>Mbps :</li> </ul>	0.00 s) : 100	059198810 0				
<ul> <li>Frame/sec (fp:</li> <li>bps :</li> <li>Kbps :</li> <li>Mbps :</li> </ul>	s) : 100 118	0				
<ul> <li>bps :</li> <li>Kbps :</li> <li>Mbps :</li> </ul>	118					
O Kbps :	10 A A	3976				
O Mbps :	118	3.97632				
	1.18	397632				
O Inter burst gap	(bytes) : 249	99864				
O L2 Rate (bps):	102	4000				
otal Tx Count Frames) Total Rx Count (Frames) Total Total 100,000 0	Tx Count (bits) Tx L1 Rat	e (Percent) Rx L1	Rate (Percent) Total Rx C	ount (bits) Gen	erator Sig Count (Frames)	Rx Sig Count (Fra
0 0 00,000 0 102,44	0 00,000 0	0	0 0	0 100,	000	0 0
100,000 0	0	0	102,400,00	0 0		100,000
RC MAC: 00:10.94 oading: 100%	2:00:00:02 - 1	liicienien	(100000	MAC	)	
Configure MAC M	odifier					
Configure MAC M	odifier					
Configure MAC M Offset	odifier on first byte	0	Start modifier	at offset	2	
Ooffigure MAC M Offset Start modifier Type Increment (	odifier on first byte ) Decrement	O List	Start modifier O Random	at offset	2 ffle 🗍 Us	e Streams
Configure MAC M Offset ③ Start modifier Type ④ Increment ( Details	odifier on first byte ) Decrement	O O List	Start modifier O Random	at offset O Shu	2 ffle 🗌 Us	e Streams
Configure MAC M Offset Start modifier Type Increment Details Count: 1000	odifier on first byte ) Decrement	O List Step:	Start modifier O Random	at offset O Shu 0:01	ffle Us	e Streams
Configure MAC M Offset Start modifier Type Increment ( Details Count: 1000 Repeat: 0	odifier on first byte ) Decrement	O List Step: Mask:	Start modifier	at offset O Shu 0:01 F:FF	ffle Us	e Streams
Configure MAC M Offset Start modifier Type Increment ( Details Count: 1000 Repeat: 0 Seed: 0	odifier on first byte Decrement	O List Step: Mask:	Start modifier	at offset O Shu 0:01 F:FF	ffle Us	e Streams
Configure MAC M Offset Start modifier Type Increment ( Details Count: 1000 Repeat: 0 Seed: 0	odifier on first byte ) Decrement	O List Step: Mask:	Start modifier	at offset O Shu 0:01 F:FF	2 ffle Us	e Stream
Configure MAC M Offset Start modifier Type Increment Details Count: 1000 Repeat: 0	odifier on first byte ) Decrement	O List Step: Mask:	Start modifier	at offset O Shu 0:01 F:FF	ffle Us	e Stream





Percent (%) :	100			
O Frame/sec (fps) :	84457770			
O bps :	99998000000			
O Kbps :	99998000			
O Mbps :	99998			
<ul> <li>Inter burst gap (bytes)</li> </ul>	): 12			
<ul> <li>Inter burst gap (bytes)</li> <li>L2 Rate (bps):</li> </ul>	86484756480			
O Inter burst gap (bytes) O L2 Rate (bps): Scheduling Mode Bandwidth (	Utilization (%): 100 Burst Size: Inter Frame Gap:	1	Duration Mode: Burst(s):	Bursts ~
Inter burst gap (bytes)     L2 Rate (bps):      Scheduling Mode Bandwidth      Port Based     Load per Stream Block     Advanced Interleaving     Group ID will be set in the stream block grid.	Utilization (%): 100 Burst Size: Inter Frame Gap: Inter Frame Gap Unit:	1 12 bytes	Duration Mode: Burst(s): Advanced	Bursts V 100000 Port Load
Inter burst gap (bytes)     L2 Rate (bps):     Scheduling ModeBandwidth     O L2 Rate (bps):     Scheduling ModeBandwidth     O Load per Stream Block     Coad per Stream Block     Group ID will be set in the stream block grid.     Total Tx Count (Frames)     Total Tx Count (bits) T     Total Tx Count (bits) T	Utilization (%): 100 Burst Size: Inter Frame Gap: Inter Frame Gap Unit:	1 12 bytes vercent) Total Rx Count (bi	Duration Mode: Burst(s): Advanced ts) Generator Sig Co	Bursts V 100000 Port Load unt (Frames) Rx Sig Count
Inter burst gap (bytes)     L2 Rate (bps):      Scheduling ModeBandwidth     O L2 Rate (bps):      Scheduling ModeBandwidth     O Port Based     Load per Stream Block     Group ID will be set in the stream block grid.      Total Tx Count (Frames)     o0     gride to the stream block grid.      Total Tx Count (bits) T     o0     gride to the stream block grid.      Total Tx Count (bits) T     o0	): 12 86484756480 Utilization (%): 100 Burst Size: Inter Frame Gap: Inter Frame Gap Unit: RLLI Rate (Percent) RLLI Rate (Percent) 9	1 12 bytes vercent) Total Rx Count (bi 94,012,416	Duration Mode: Burst(s): Advanced ts) Generator Sig Co	Bursts            100000         Port Load           unt (Frames)         Rx Sig Count I           91,809
Inter burst gap (bytes)     L2 Rate (bps):     Scheduling Mode Bandwidth     Port Based     Load per Stream Block     Advanced Interleaving     Group ID will be set in the stream block grid.     Total Tx Count [Total Tx Count [Frames)     0     94309     0	12 86484756480 Utilization (%): 100 Burst Size: Inter Frame Gap: Inter Frame Gap Unit: XLI Rate (Percent) XLI Rate (Percent) 0 0 0 0 0 0 0 0 0 0 0 0 0	1 12 bytes ~ Percent) Total Rx Count (bi 94,012,416 0 12,200,000	Duration Mode: Burst(s): Advanced ts) Generator Sig Co	Bursts            100000         Port Load           unt (Frames)         Rx Sig Count           92,409         0           100,000         0

## **3.5 Static FDB Function Test**

Test Items	Static FDB Test
Test Content	Verify that the device's Static FDB is functioning properly.
Test Topology	DUTI 1 2 3 C A B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Create VLAN 100.</li> </ol>



	3、Configure ports DUTP1-DUTP3 to j	join VLAN 100 as untagged members.					
	4、Configure a static MAC address for	VLAN 100 on DUTP1.					
	5, TGB injects 100,000 packets with D	MAC set to the static MAC address.					
	6 configured for VLAN 100 on DUTP	1 then observe the traffic transmission and					
	reception status Check 1						
	Check1: TGA receives all 100 000 pac	kets sent by TGB while TGC receives no					
Expected Results	packets.	Kets sent by 10D, while 100 receives no					
	config vlan add 100 config vlan member add 100 Ethernet0 config vlan member add 100 Ethernet2 config vlan member add 100 Ethernet4	-U -U Admin Protolown Eff Admin Type Asym PFC Oper Speed up False up OSFP 8K Pluggable Transcolver N/A 2000					
	Ethernet2 11,12 2060 9100 rs Eth1/2(Port1) routed up Ethernet4 13,14 2060 9100 rs Eth1/3(Port1) routed up root6son12:% abox Vlan brief VLAN ID IP Address Ports Port Proxy DHCP Helper DHCP VLAN ID IP Address Ports Tagging ARP Address	up False up OSFP 8X Pluggable Transcesver N/A 2006 up False up OSFP 8X Pluggable Transcesver N/A 2006 Relay Configuration					
	L root@sonic:=0 config vlam add 100 root@sonic:=0 config vlam member add 100 Ethernet9 -0 root@sonic:=0 config vlam member add 100 Ethernet2 -0 root@sonic:=0 config vlam member add 100 Ethernet4 -0 root@sonic:=0 root@sonic:=0	······································					
	VLAN ID IP Address Ports Port Proxy DHCP Helper DH Tagging ARP Address	CP Relay Configuration					
	189 Ethermet8 untagged disabled 50 Ethermet2 untagged LL Ethermet4 untagged Se	wroe Interface: nk Selection: rver vrf:					
	server 10 override:						
Actual Test Results	root@sonic:~# config static-mac add 00:10 root@sonic:~# root@sonic:~# show mac No. Vlan MacAddress Port 1 100 00:10:94:00:00:01 Etherno Total number of entries 1 root@sonic:~#	0:94:00:00:01 100 Ethernet0 Type  et0 Static					
	Port B						
	Frame						
	EthernetII	0.00000000000					
	Preamble (nex)	105555555555555555555555555555555555555					
	Source MAC	00:10:94:00:00:01					
	EtherTupe (hev)						
	- IPv4 Header						
	Version (int)	<auto> 4</auto>					
	Header length (int)	<auto> 5</auto>					
	ToS/DiffServ	tos (0x00)					
	Total length (int)	<auto> calculated</auto>					
	Identification (int)	0					
	- Control Flags						
	Reserved (bit)	0 ~					
		. 100					





	Fix     O Ran	ndom
	Fixed load settings	
	Percent (%) :	100
	O Frame/sec (fps) :	84457770
	O bps :	99998000000
	O Kbps :	99998000
	O Mbps :	99998
	O Inter burst gap (bytes) :	12
	O L2 Rate (bps):	86484756480
	Scheduling Mode Bandwidth (     Port Based	Burst Size: 1 Duration Mode: Bursts
	🔿 Load per Stream Block 🛛 🗸 🗸	Inter Frame Gap: 12 Burst(s): 100000
	Group ID will be set in the stream block grid.	Inter Frame Gap Unit: bytes V Advanced Port Load
	Manual Based     Packets received at Port A a	and Port C
	Pret Treffic and Counters > Basic Traffic Results : Ourop Preut Ver + C Counters (Uner Defined Advanced) Basic Counters (Enror: Trogges : Protocole) Undersize/Dvenice/Unite / PC Counters (Uner Defined Advanced)	μ         Stream is included Stream Reads         Orange Fact line + <sup>1</sup> / <sub>10</sub> [5, [5], [4], [4], [4]]         (4) [405 [16] for a stream st
	Part Name         Other in Cubics         Dec () (),(27)         O	Parter         Description         Operating Sector Sig Cost Phases         Operating Sector Sig
	oosiyyis 20,000 0 202,00,000 0 0 ] rootPsonic:~0 sonic-clear counters Cleared counters	2 (24.502 ) 2 (24.502 )
	root@sonic:+# show mac No. Vlan NacAddress Port Type	
	Total number of entries 1 root@sonic:># root@sonic:># show interfaces status Ethernet8_Ethernet2_Etherne	14
	Ethernet8 9,18 2006 9100 rs Eth1/1(Port1) Ethernet2 11,12 2006 9100 rs Eth1/1(Port1) Ethernet4 31,4 2006 9100 rs Eth1/2(Port1)	Tuan oper autum ristocom ciriandum ciriandum ype avymiru. Operageno Turuk op op Falan up OSFP at Ploggabla Francostver VA 2006 Turuk op op Falan up OSFP at Plaggabla Francostver VA 2006 Turuk op op Falan up OSFP at Plaggabla Francostver VA 2006
	root@sonic:~ ☐ root@sonic:~ Last cached time was 2025-03-03 10:29:03.027519 IFACE STATE RX_OK RX_BPS RX_UTIL RX_ERR RX	hermeta Lobo RXLONP.BATE TXLON TXLB95 TXLUTIL TXLERR TXLONP TXLONP TXLONP.BATE ONP_INT EOLIPAT
	Ethernet0 U 0 0.00 B/s 0.00% 0 Ethernet2 U 0 0.00 B/s 0.00% 0 Ethernet4 U 0 0.00 B/s 0.00% 0 rootPontic=0	0         0         0.000         0.1         0.000         0 <th< th=""></th<>
	rootBeonic:-0 rootBeonic:-0 show interfaces counters -1 Ethernet8,Ethernet2	hermetal Record Rocane Rocane Rocane Talers Talers Talere Talere Talere Talere Talera, Barlant Garant Couract
	Ethernet@         U         0         0.00 B/s         0.00%         0           Ethernet2         U         160,000         760,43 K8/s         0.00%         0           Ethernet4         U         0         0.00 B/s         0.00%         0	0 0 0.40% 100,000 706-03 K2/s 0.40% 0 0 0 0.40% 0 0 0 0.40% 0 0 0 0 0.40% 0 0 0 0.40\% 0 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0.40\% 0 0 0 0 0.40\% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Toolseonic:-9 show interfaces counters -1 Ethernet0,Ethernet2,Eti Last cached time was 2025-83-83 16:29:83.827519 IFACE STATE RX_OK RX_BPS RX_UTIL RX_ERR	herneta Rx.(dwp. Rx.(dwp.gate tx.cx tx.lbps tx.uttl tx.esr tx.drp tx.dvr tx.(dwp.gate oup.pxt edu.pxt
	Ethernet8 U 0 0.00 B/s 0.00% 0 Ethernet2 U 100,000 141.10 KB/s 0.00% 0 Ethernet4 U 0 0.00 B/s 0.00% 0 rootBennic:~*/	0 0 0 0.001 100,000 0.012/s 0.001 0 0 0 0.001 0 0 0 0 0.001 0 0.001 0 0.001 0 0.001 0 0 0 0
	∃ root@sonic:*# show vlam brief VLAN ID   IP Address   Ports   Port   Proxy       Tanging   ARP	CHCP Holger DHCP Holgy Configuration
	108   Ethernet8 untagged   disabled   Ethernet2 untagged   Fhernet2 untagged	i Source Interface: Link Selection: I Source Vrf:
	rost@aonic:~#	Server 10 Gverride:
Test results	PASS	
Remarks		

## **3.6 STP Function Test**

Test Items	STP Function Test
Test Content	Test that the device's STP is working properly.







	Traffic Generator  Traffic Analyzer  Port //4/10  Port //4/10  Port //4/10  Traffic Generator  Traffic Generator  Copture  Settings	Status Ac	tive Name StreamBlock 1	Tags Click to ad	Index 0	Source Mac 00:10: <del>94</del> :00:00:01	Destination Mac 00:10:94:00:00:02	Controlled By generator	Load L
	Traffic Aggregate View Results 1 Port Traffic and Counters > Basic Traffic	<     Companying Stream B Results Change Res	Nocks 1 - 1   Total Stream	Blocks: 1   Sel	ected 1 of 1	þi			Port
	Port Name Total Tx Count (Frames) (Frames)	Count Total Tx Cour	it (bits) Total Rx Count	(bits) Total	Tx Rate (bps	s) Total Rx Rate (bps	s) Tx L1 Count (bits	s) Rx L1 Co	
	Port //4/9 4,177,538,510 0	4,277,799,415	9,392 0	512		0	4,946,205,580,99	2 0	
	Port //4/10 28 0	14,336	0	512		0	18,816	0	
Test results	PASS								
Remarks									

## 3.7 RFC-2544 Function Test

Test Items	RFC2544 Test
Test Content	The device is connected to a tester for RFC2544 testing.
Test Topology	1       64         Test Center
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure VLAN.</li> <li>Use the tester to perform RFC2544 testing.</li> <li>Delete the relevant configurations.</li> </ol>
Expected Results	The RFC2544 test results meet expectations.
Actual Test Results	config vlan add 100 config vlan member add 100 Ethernet440 -u config vlan member add 100 Ethernet8 -u



	Close lldp systemctl stop lldp.service
	Throughput report: rfc2544_topolog y_two_400G_port
Test results	PASS
Remarks	

# 四、L3 4.1 ARP Protocol Test

Test Items	ARP Protocol Test
Test Content	Test that the device can correctly process ARP packets.
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure DUTP1 IP as 100.100.100.100/24.</li> <li>TGA sends an incorrect ARP request to 100.100.100.100 with 100.100.100.1 as the source MAC for Check 1.</li> <li>TGA sends a correct ARP request to 100.100.100.100 with 100.100.100.1 as the source MAC for Check 2.</li> <li>Delete the relevant configurations.</li> </ol>
Expected Results	Check1: The DUT does not learn 100.100.100.1. Check2: The DUT learns 100.100.100.1.
Actual Test Results	Configure the IP address of device port 1 as 100.100.100/24. config interface ip add Ethernet0 100.100.100.100/24 Port A



Preamble (hex)	fb555555555555555555555555555555555555
Destination MAC	90:2D:77:0F:C8:00
Source MAC	00:10:94:00:00:01
EtherType (hex)	<auto> ARP</auto>
Hardware Type (hex)	<auto> Ethernet</auto>
Protocol Type (hex)	<auto> Internet IP</auto>
Hardware Address Length (int)	6
- Protocol Address Length (int)	5
Operation (int)	ARP Request
- Sender Hardware Address	00:10:94:00:00:01
Sender Protocol Address	100.100.100.1
Target Hardware Address	00:00:00:00:00:00
ot@sonic:/home/admin# show dress MacAddress Ifac  tal number of entries 0 ot@sonic:/home/admin#	arp e Vlan 
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# tA - EthernetII	arp e Vlan 
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# tA - EthernetII - Preamble (hex)	arp e Vlan  fb55555555555555555555555555555555
A EthernetII Preamble (hex) Destination MAC	arp e Vlan fb555555555555555555555555555555555555
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# t A 	arp Vlan fb555555555555555555555555555555555555
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# t A <b>EthernetII</b> Preamble (hex) Destination MAC Source MAC EtherType (hex)	e Vlan fb555555555555555555555555555555555555
t@sonic:/home/admin# show ress MacAddress Ifac al number of entries 0 t@sonic:/home/admin# A EthernetII Preamble (hex) Destination MAC Source MAC EtherType (hex) ARP	e Vlan fb555555555555555555555555555555555555
t@sonic:/home/admin# show ress MacAddress Ifac al number of entries 0 t@sonic:/home/admin# A EthernetII Preamble (hex) Destination MAC Source MAC EtherType (hex) ARP Hardware Type (hex)	e Vlan fb555555555555555555555555555555555555
A EthernetII Preamble (hex) Destination MAC EtherType (hex) ARP Hardware Type (hex) Protocol Type (hex)	e Vlan ve Vlan fb555555555555555555555555555555555555
A EthernetII Preamble (hex) Destination MAC EtherType (hex) Hardware Type (hex) Hardware Address Length (int)	e Vlan fb555555555555555555555555555555555555
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# t A EthernetII Preamble (hex) Destination MAC Source MAC EtherType (hex) ARP Hardware Type (hex) Hardware Address Length (int) Protocol Address Length (int)	e Vlan fb555555555555555555555555555555555555
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# t A 	e Vlan fb555555555555555555555555555555555555
ot@sonic:/home/admin# show dress MacAddress Ifac tal number of entries 0 ot@sonic:/home/admin# t A - EthernetII - Preamble (hex) - Destination MAC - Source MAC EtherType (hex) - ARP - Hardware Type (hex) - Protocol Type (hex) - Hardware Address Length (int) - Operation (int) - Sender Hardware Address	e Vlan fb555555555555555555555555555555555555
A EthernetII Preamble (hex) Destination MAC Source MAC EtherType (hex) Hardware Type (hex) Hardware Address Length (int) Operation (int) Sender Hardware Address Sender Protocol Address Sender Protocol Address	arp         Vlan           fb555555555555555555555555555555555555





## 4.2 ARP Specification Test

Test Items	ARP Specification Test
Test Content	Test the ARP specifications of the device



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Test Topology	DUT1 1 2 2 A STC B	
Test Steps	<ol> <li>Set up the test environ</li> <li>Configure the IP address</li> <li>TGA starts sending in Check 1.</li> <li>Delete the relevant control</li> </ol>	Iment as shown in the diagram. ess of DUT port P1 as 100.0.0.1/8. cremental ARP requests from 100.0.0.2 to 100.0.0.1, nfigurations.
Expected Results	Check1: The ARP entries	learned by the DUT comply with the specifications.
Actual Test Results	Configure the IP address of config interface ip add Eth Port A Scheduling Mode Bandu <pre>     Port Based     Load per Stream Block Advanced Interleaving Group ID will be set in the stream block     Manual Based Cethodd in     Fix Ranu     Fixed load settings</pre>	of device port 1 as 100.0.0.1/8.         hermet0 100.0.0.1/8         width Utilization (%): 0.000710386         Burst Size:       5         Duration Mode:       Bursts         Inter Frame Gap:       12         Burst(s):       20000         Inter Frame Gap Unit:       bytes         Advanced       Port Load         odom       0.00071038579200         600       710385792         0.710385792       0.710385792         104165938       1
	O L2 Rate (bps):	614400



	ACTUAL RESULT
	192.168.64.246 00:10:94:00:3f:f5 - 154
	192.168.64.247 00:10:94:00:3f:f6 - 154
	192.168.64.248 00:10:94:00:3f:f7 - 154
	192.168.64.249 00:10:94:00:3f:f8 - 154
	192.168.64.250 00:10:94:00:3f:f9 - 154
	192.168.64.251 00:10:94:00:3f:fa - 154
	192.168.64.252 00:10:94:00:3f:fb - 154
	192.168.64.253 00:10:94:00:3f:fc - 154
	Total number of entries 16383
	root@sonic:/home/admin#
Test results	PASS
Remarks	

## **4.3 ECMP**

Test Items	ECMP Function Test
Test Content	Test that the device can learn routes via BGP and forward packets accordingly
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure the interface IP address, Check 1.</li> <li>The tester TGA creates an IP interface and performs ARP interaction with device Port 1.</li> <li>The tester TGB creates multiple IP interfaces and performs ARP interaction with device P2.</li> <li>Configure equal-cost static routes, Check 2.</li> <li>TGA sends L3 packets to the destination IP specified by the equal-cost routes, Check 3.</li> <li>Delete the relevant configurations.</li> </ol>
Expected Results	Check1: The IP address is configured successfully. Check2: The configuration is successful. Check3: The packet forwarding is normal without packet loss, and load balancing is achieved via ECMP.







	<pre>     timeret II, Sc: Natural 6:00:00 (0:5:0:2:12:0:0:00) Dat: Performs_00:00:01 (0:10:2:40:00:04)     betination: Performs_00:00:04 (0:10:2:40:00:04)     defects: Performs_00:00:02 (0:10:3:40:00:04)     defects: Performs_00:00:02 (0:10:3:40:00:03)     defects: Performs_00:00:02 (0:10:3:40:00:03)     defects: Performs_00:00:02 (0:10:3:40:00:03)     defects: Performs_00:00:03 (0:10:3:40:00:03)     defects: Performs_00:00:0</pre>
Test results	PASS
Remarks	

## 4.4 BGP

Test Items	BGP Function Test
Test Content	Test that the device can learn routes via BGP and forward packets accordingly
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure DUT port P1 with IP 100.100.100.100/24 and port P2 with IP 200.200.200/24, Check 1.</li> <li>Configure DUT BGP AS100; advertise networks 100.100.100.100/24 and 200.200.200/24; set neighbor 200.200.200.1 (AS200), Check 2.</li> <li>TGA (100.100.100.1/24) performs ARP interaction with the device.</li> <li>TGB (200.200.200.1/24) establishes an eBGP neighbor with the device and advertises route 2.2.2.0/24, Check 3.</li> </ol>



	<ul> <li>6 TGA sends packets with DA=DUT MAC, SIP=100.100.100.1, DIP=2.2.2.100, Check 4.</li> <li>7 Delete the relevant configurations.</li> </ul>
Expected Results	Check1: The IP address configuration is successful. Check2: The configuration is successful. Check3: The neighbor establishment is successful, and the DUT learns the route 2.2.2.0/24. Check4: The packet forwarding is normal without packet loss.
Actual Test Results	Check4: The packet forwarding is normal without packet loss. Configure the IP address of device port 1 as 100.100.100.100/24 and port 2 as 200.200.200.200/24. config interface ip add Ethernet0 100.100.100.100/24 config interface ip add Ethernet8 200.200.200.200/24 Thereface Matter IP4 address/matk demix/oper BOP Neighbor IP tethernet334 100.100.100.0/24 configure DUT BGP vtysh configure bur BGP vtysh configure remninal router bgp 100 network 100.100.100.0/24 neighbor 200.200.200.0/24 neighbor 200.200.200.0/24 neighbor 200.200.200.0/24 neighbor 200.200.200.1 remote-as 200 1 address-family jpv4 unlosst network 200.200.200.200 TGA (100.100.100.1/24) performs ARP interaction with the device. Fing Options Frame Count Fing Options Frame Count Fing Status: PINS 100.100.100.100.100.101.101.101.102.155 data bytes Status: PINS 100.100.100.100.100.101.101.101.102.155 data bytes Status: PINS 100.100.100.100.100.101.101.101.101.102.155 data bytes Status: PINS 100.100.100.100.100.101.101.101.101.101
	- ping statistics 1 packets transmitted, 1 packets received, 0.0% packet loss rtt min/avg/max/stddev = 0.692/0.692/0.000 ms Neighbor status and routes



	BGP state Last read (	= Established, 00:00:26, Last	up for 00:45: write 00:00:1	14 4 30 seconds	10 20					
	Hold time Neighbor ca 4 Byte A	is 90, keepaliv apabilities: S: advertised	e interval is	30 seconds						
	Extended	Message: adver	tised							
	IPv4 U	nicast: RX adve fresh: advertis	rtised							
	Enhanced Address	Route Refresh: Family IPv4 Uni	advertised cast: adverti	sed and receiv	ed					
	Hostname Graceful	Capability: ad Restart Capabi	lvertised (nam lity: adverti	e: sonic,domai sed	n name: n	/a) not receive	d			
	Graceful re Local GR	estart informat Mode: Helper*	ion:							
	Remote G R bit: Fa	R Mode: Disable alse								
	Timers: Config	ured Restart Ti	me(sec): 120							
	Receive Message st	ed Restart Time atistics:	(sec): 0							
	Und dept	n 150 th is0	nt David							
	Opens:	Se	nt Revo							
	Updates:	tions:								
	Route Re Canabili	resh: tv:								
	Total:	me between adve	94 93	s is A seconds						
	For address	family: TPv4 II	nicaet	a ia o seconda						
	Update grou	up 1, subgroup	1							
	Community a	attribute sent	to this neigh	bor <mark>(all)</mark>						
	Connection	n ontabliched 1	drapped 9							
	Last reset	90:46:51, No	AFI/SAFI acti	vated for peer						
	Foreign host	: 200.200.200.200.1	, Eocal port: , Foreign por	t: 53096						
	Nexthop: 200 Nexthop globs	.200.200.200 al: <u>fe80::8e5</u> d:	b2ff:feb6:0							
	Neython loca	l: fe80::8e5d:b	2ff:feb6:0							
	BGP connectio	on: shared netw	ork							
	BGP connect i BGP Connect i Read thread:	on: shared netw Retry Timer in on Write thre	ork Seconds: 120 ad: on FD us	ed: 27						
	BGP connect in BGP Connect in Read thread:	on: shared netw Retry Timer in on Write thre	ork Seconds: 120 ad: on FD us MACsec DH	ed: 27	MLD 6rd	/6to4 DS-Lite	DHCP Serve	r BFD STP	BGP	
	BGP connect in BGP Connect in Read thread: Emulated De	on: shared netw Retry Timer in on Write thre evice Interface	ork Seconds: 129 ad: on FD us MACsec DH	ed: 27 HCP IGMP Device	MLD 6rd	V6to4 DS-Lite Device	DHCP Serve	r BFD STP	BGP V4 Rout	er
	BGP connect in BGP Connect in Read thread: Emulated De Port Nam	on: shared netw Retry Timer in on Write thre evice Interface ne	ork Seconds: 120 ad: on FD us MACsec DH	ed: 27 HCP IGMP I Device Name Router 1	MLD Gro Tags Router	V6to4 DS-Lite Device Count	DHCP Serve	r BFD STP Router State	BGP V4 Rout State	er
	BGP connecti BGP connect Read thread: Emulated De Port Nam	on: shared netw Retry Timer in on Write thre evice Interface ne ////21	ork Seconds: 120 ad: on FD us MACsec DH	ed: 27 HCP IGMP Device Name Router 1	MLD Grd Tags Router	/6to4 DS-Lite Device Count 1	DHCP Serve	r BFD STP Router State Established	BGP V4 Rout State Establis	er :hed
	BGP Connecti BGP Connect I Read thread: Emulated De Port Nam	on: shared netw Retry Timer in on Write thre evice Interface ne //1/21	ork Seconds: 120 ad: on FD us MACsec DH	ed: 27 HCP IGMP / Device Name Router 1	MLD 6rd Tags Router	V6to4 DS-Lite Device Count 1	DHCP Serve	r BFD STP Router State <i>Established</i>	BGP V4 Rout State Establis	er ihed
	BGP Connect I BGP Connect I Read thread: Emulated De Port Nam Port / Sonic# show	n: shared netw Retry Timer in on Write three evice Interface he //1/21	ork Seconds: 128 ad: on FD us MACsec DH	ed: 27 HCP IGMP Device Name Router 1	MLD 6rd Tags Router	V6to4 DS-Lite Device Count 1	DHCP Serve	r BFD STP Router State Established	BGP V4 Rout State Establis	er
	BGP connect   BGP connect   Read thread: Emulated De Port Nam Port / sonic# show Codes: K - k	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS	ork Seconds: 128 ad: on FD us MACsec DH MACsec DH : - connected ; B - BGP, E	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGMP, N - et A Poice	MLD 6rd Tags Router R - RIP, NHRP, D	V6to4 DS-Lite Device Count 1	DHCP Serve	r BFD STP Router State Established	BGP V4 Rout State Establis	er ihed
	BGP connecti BGP connecti BGP connecti Read thread: Port Nam ▶ Port / Sonic# show Codes: K - k 0 - 0 T - T f - 0	nn: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-US penFabric, penFabric,	ork Seconds: 128 ad: on FD us MACsec DH :- connected ; B - BGP, E V - VNC-Dirc	ed: 27 HCP IGMP I Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel	MLD Gro Tags Router R - RIP, NHRP, , F - PBI	V6to4 DS-Lite Device Count 1	DHCP Serve	r BFD STP Router State Established	BGP V4 Rout State Establis	er ihed
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	BGP connecti BGP connecti BGP connecti BGP connecti BGP connecti BGP connecti Bornecti Port Nam Port / Port / Port / Port / B>* 2.2.2.3.0/ B>* 2.2.3.0/	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS able, v - VNC, penFabric, elected route, rapped, o - of 24 [20/0] via 24 [20/0] via	ork Seconds: 128 ad: on FD us MACsec DH MACsec DH ; - connected ; B - BGP, E V - VNC-Dird * - FIB rout fload failur 200.200.200.200.	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece 1. Ethernet416 J. Ethernet416	MLD Gro Tags Router R - RIP, NHRP, L, F - PBI J, r - re; S, weight	V6to4 DS-Lite Count 1 s, jected, b - ba 1, 80:16:19	DHCP Serve	r BFD STP Router State Established	BGP V4 Rout State Establis	er hed
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	BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 Port Nam Port Nam Port Nam Port / Sonic# show Codes: K - k 0 - 0 T - T f - 0 Sonic# show Codes: K - k B - 8 t - t B>* 2.2.2.0/ B>* 2.2.3.0/ Sonic# Packet for Traffic Aggregate	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS able, v - VNC, penFabric, elected route, rapped, o - of 24 [20/0] via 24 [20/0] via corwarding eview.Results 1	ork Seconds: 128 ad: on FD us MACsec DH : - connected s, B - BGP, E V - VNC-Dirk V - VNC-Dirk * - FIB rour fload failur 200.200.200. result	ed: 27 HCP IGMP I Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece e - queuece 1, Ethernet416	MLD Gro Tags Router R - RIP, NHRP, L, F - PBH J, r - re S, weight	Vi6to4 DS-Lite Device Count 1 , jected, b - ba 1, 00:16:19 1, 00:16:19	DHCP Serve	r BFD STP Router State Established	BGP V4 Rout State Establis	er hed
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	BGP connect   BGP connect   Port Name Codes: K - k 0 - 0 T - 7 Sonic# show Codes: K - k 0 - 0 Sonic# show Codes: K - k 0 - 0 T - 7 Sonic# show Codes: K - k 0 - 0 Sonic# Show Codes: K - k 0 - 0 Sonic# Show Codes: K - k 0 - 0 Sonic# Show Codes: K - k Sonic# Show Codes	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS SPL, I - IS-IS	<pre>ork Seconds: 128 ad: on FD us MACsec DH ACsec DH ACsec DH C - connected, B - BCP, E V - VNC-Dir( * - FIB rout fload failure 200.200.200.200.200. result Protocols Und Total Rx Count (Frames) 0 1200.200.200.200.200.200.200.200.200.200</pre>	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece e 1. Ethernet410 1. Ethernet410 s Change Result dersize/Oversize/J Total Tx Count (bits) - 4.096,000	MLD 6rd Tags Router R - RIP, NHRP, L, F - PBI J, r - re, S, weight Wew - 22 umbo PFC Tot 0 0	Vieto4 DS-Lite Device Count 1 1 2, jected, b - bar 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19	DHCP Serve	r BFD STP Router State Established Sequencing FEC Dos) Total Rx Ra 0 0	BGP V4 Rout State Establis	er hed hed Tx L1
	BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 Port Name Port Name Port //1/13 Port //1/12	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS Bele, v - VNC, penFabric, elected route, rapped, o - of 24 [20/0] via 24 [20/0] via 24 [20/0] via corwarding view:Results 1 d counters > Bas Errors Triggers Total Tx Count (Frames) 1,000 0	in the second se	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece q - queuece (1, Ethernet410 1, Ethernet410 (1, Ethe	MLD 6rd Tags Router R - RIP, NHRP, L, F - PBI d, r - re, S, weight d, r - re, t, weight View - Wew - Tot 0 4,02	Vieto4 DS-Lite Device Count 1 , event 1, event 1	DHCP Serve	r BFD STP Router State Established Sequencing FEC DS) Total Rx R4 0 0	BGP V4 Rout State Establis	er hed hed had hed hed hed hed hed hed hed hed hed he
	BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 BGP connect1 Port Name Port / Sonic# show Codes: K - k 0 - 0 T - T f - 0 > - s t - t B>* 2.2.2.0/ B>* 2.2.2.0/ B>* 2.2.2.0/ B>* 2.2.2.0/ Sonic# Packet fc Traffic Aggregate Port Traffic and Basic Counters Port //1/121 Port //1/21	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS able, v - VNC, penFabric, elected route, rapped, o - of 24 [20/0] via 24 [20/0] via 24 [20/0] via 24 [20/0] via cowarding eview.Results 1 d Counters > Bas Errors Triggers Total Tx Count (Frames) J,000 0	in the second se	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece q - queuece q - queuece s Change Result dersize/Oversize/J Total Tx Count (bits) 4,096,000 Ø	MLD 6rd Tags Router R - RIP, NHRP, L, F - PBI J, r - re, S, weight View • Weight View • Tot 0 4,02	Vieto4 DS-Lite Device Count 1 2, jected, b - ba 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19	DHCP Serve	r BFD STP Router State Established Sequencing FEC ps) Total Rx Ra 0 0	BGP V4 Rout State Establis	er
	BGP connect   BGP connect   Port Name Port // B>* 2.2.2.0/ B>* 2.2.3.0/ Packet for Packet for Part // Basic Counters Port //1/13 Port //1/21	n: shared netw Retry Timer in on Write three evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS able, v - VNC, elected route, rapped, o - of 24 [20/0] via 24 [20/0] via 24 [20/0] via corwarding View.Results 1 d Counters > Bas Errors Triggers Total Tx Count (Frames) <i>1,000</i> 0	ork Seconds: 128 ad: on FD us MACsec DH MACsec DH Seconds: DH Seco	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuec e 1. Ethernet410 . Ethernet410 s Change Result dersize/Oversize/J Total Tx Count (bits) 4.096.000 0 4.096.000	MLD Gro Tags Router R - RIP, NHRP, L, F - PBI d, r - re; S, weight Wew • \$ Umbo FFC v Tot 0 4,01 4.05	Vieto4 DS-Lite Device Count 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	DHCP Serve	r BFD STP Router State Established Sequencing FEC Das) Total Rx Ra 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	BGP V4 Rout State Establis	er hed
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	BGP Connect   BGP Connect   Port Name Codes: K - k 0 - 0 T - T f - 0 > - s t - t B>* 2.2.3.0/ B>* 2.2.3.0/ B>* 2.2.3.0/ B>* 2.2.3.0/ Dacket fcc Traffic Aggregate Port Iraffic am Basic Counters Port //1/13 Port //1/13 Port //1/13	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS SPF, I - IS-IS	<pre>ork Seconds: 128 ad: on FD us MACsec DH MACsec DH C - connected , B - BCP, E V - VNC-Dir( * - FIB rout fload failure 200.200.200.200.1 result ic Traffic Result ic Traffic Result ic Traffic Result i. 1,000 i. 1,000</pre>	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece e s Change Result dersize/Oversize/J Total Tx Count (bits) - 4,096,000	MLD 6rd Tags Router R - RIP, NHRP, L, F - PBI J, r - re S, weight View - S, weight View - S, weight View - S, weight 4.05	Vieto4 DS-Lite Device Count 1 2, jected, b - ba 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19	DHCP Serve	r BFD STP Router State Established Sequencing FEC os) Total Rx Ra 0 0	BGP V4 Rout State Establis	er hed
est results	BGP Connect   BGP Connect   BGP Connect   Read thread: Emulated De Port Name Port // B>* 2.2.3.0 Packet for Traffic Aggregate Port Traffic am Basic Counters Port //1/13 Port //1/13 PASS	n: shared netw Retry Timer in on Write thre evice Interface ne /1/21 ip route bgp ernel route, C SPF, I - IS-IS SPF, I - IS-IS	ork Seconds: 128 ad: on FD us MACsec DH : - connected , B - BCP, E V - VNC-Dird * - FIB rout fload failurs 200.200.200.200. 200.200.200. result ic Traffic Result Protocols Und Total Rx Count (Frames) 0 1.000	ed: 27 HCP IGMP Device Name Router 1 , S - static, - EIGRP, N - ect, A - Babel te, q - queuece e s Change Reault dersize/Oversize/J Total Tx Count (bits) 4.096.000	MLD 6rd Tags Router R - RIP, NHRP, L, F - PBI J, r - re, S, weight S, weight View - 2 Umbo PFC View - 1 View -	V6to4 DS-Lite Device Count 1 2, jected, b - ba 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19 1, 00:16:19	DHCP Serve	r BFD STP Router State Established Sequencing FEC os) Total Rx Ra 0 0	BGP V4 Rout State Establis	er


Test Items	IPv4 Route table specifications					
Test Content	IPv4 Route table specifications Test					
Test Topology	DUTI 1 2 A STC B					
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure DUT port P1 with IP 100.100.100.100/24 and port P2 with IP 200.200.200/200/24.</li> <li>Configure DUT BGP AS100; advertise networks 100.100.100/100/24 and 200.200.200/24; set neighbor 200.200.200.1 (AS200).</li> <li>TGB (200.200.200.1/24) establishes an eBGP neighbor with the device and advertises 1 100.000 moutos. Check 1</li> </ol>					
Expected Results	Check 1: View the maximum number of directly connected routes that BGP can learn.					
Actual Test Results	Configure device Port 1 with IP address 100.100.100.100/24 and Port 2 with IP address 200.200.200.200/24. config interface ip add Ethernet0 100.100.100.100/24 config interface ip add Ethernet8 200.200.200.200/24 root@sonic:~d show ip interfaces Interface Master IPv4 address/mask Admin/Oper BGP Neighbor Neighbor IP Ethernet384 100.100.100.100.0/24 Ethernet416 200.200.200.200/24 up/up N/A N/A Ethernet416 200.200.200.200/24 up/up N/A N/A Configure DUT BGP vtysh configure terminal router bgp 100 network 100.100.100.0/24 network 200.200.200.0/24 neighbor 200.200.200.1 remote-as 200 no bgp ebgp-requires-policy					

## 4.5 IPv4 Route table specifications



address networ networ exit-ac exit	s-family rk <u>100.1</u> rk <u>200.2</u> ddress-f	/ ipv4 u 00.100. 00.200. amily	unicast 0/24 0/24						
BGP rout	te learni	ng coui 1 100 0	nt 100 packets						
BGP Routes/V	PLS/Link-Sta	1,100,0 nte	oo paekets						
Select Routers -	🕂 Add 🗙	Delete Adve	rtise Route Block V	/ithdraw Route	Block 🔊	Route Generator			
IPv4 Routes IF	Pv6 Routes I	Pv4 VPLS	Pv6 VPLS VPLS A	D RT-Const	raint C-MC	AST IPv4 C-MCA	ST IPv6 Imp	orted Routes	Pv4 Flow Spe
Port Name	Name	Count	Name	Active	Count	per Router	s Networ Router	rk Count per Su	bAFI
Port //1/21	Router 1	1	BgpIpv4Route		500000	500000	500000	Un	icast
root@sonic:~# 500006	show ip rout	e bgp   wc	-1						
root@sonic:~# root@sonic:~# root@sonic:~#	show in bor	Summary							
IPv4 Unicast S BGP router ide BGP table vers RIB entries 10 Peers 1, using Peer groups θ,	Summary: entifier <u>200.</u> sion 7301002 000003, using p 740296 KiB using 0 byt	200.200.200 184000552 of memory es of memory	, local AS number bytes of memory y	100 vrf-id 0					
			MeaSant Th1V	er InQ	OutQ Up/Do	own State/Pf	xRcd Neighb	orName	
Neighbhor 	V AS 4 200 of neighbors	MsgRcvd 4475	4354	0 0	0 00:04	l:47 56			
Neighbhor 200.200.200.1 Total number o	V AS 4 200	MsgRcvd 4475 1	4354	0 0	0 00:04	1:47 56	0080		
Neighbhor 200.200.200.1 Total number o Checksum (int)	V AS 4 200 of neighbors	NsgRcvd 4475	4354	0 0 	<ul> <li>00:04</li> <li>auto &gt; 61060</li> <li>100, 100, 100, 1</li> </ul>	1:47 56	0000		
Neighbhor 200.200.200.1 Total number o Checksum (int) Source	V AS 4 200 of neighbors	MsgRovd 4475	4354	e e 10 2.	B 88:84 auto > 61060 00,100,100,1 2.2.1	1:47 5E			
Neighbhor 200.200.200.1 Total number of Checksum (int) Source Destination	V AS 4 200 of neighbors	MsgRevd 4475	4354	e e 10 10 2.	8 98:84 auto > 61060 00,100,100,1 2.2.1 punt=500000	;Step=0.0.1.0	0000		
Neighbhor 208.209.200.1 Total number of Checksum (int) Source Destination IPvis Modifi Header Option	V AS 4 200 of neighbors s	MsgRevd 4475	4354	e e 10 2. Ca	0 00:04 auto > 61060 00.100.100.1 2.2.1 punt=500000	:47 56 ;Step=0.0.1.0	0000		
Neighbhor 208,209,209,1 Total number o Checksum (int) Source Destination Header Option Gateway	V AS 4 200 of neighbors	NsgRovd 4475	4354	e e 10 2. 6 10 10 10	0 00:04 auto > 61060 00.100.100.1 2.2.1 punt=500000	1:47 56 ;Step=0.0.1.0 00	8888		
Neighbhor 209.209.200.1 Total number of Checksum (int) Source Destination Header Option Gateway Schedung Mode © Part Based Lodg or Stream B Advanced Interfe	V AS 4 200 of neighbors of neighbors s Bandwidth ock Bandwidth ock saving	Ns.gRcvd 4475 1 bUblization (%): 55 Burst Stee Inter Freme Gu	4354 4354 22 ap: 12 ap: 12 ap: 112	8 8 10 2. Co Duration Mode: Burst(s): Advanced	0 08:04 auto > 61060 00.100.100.1 2.2.1 bunt=500000 00.100.100.1 Bunts \$ 50000 PertLaad	;Step=0.0.1.0	8668		
Neighbhor 208.209.200.1 Total number of Checksum (int) Source Destination Invisit Model Header Option Gateway Schedung Mode @ Port Based Chad yo will have divanced bateric Grang Di will have Manual Based	V AS 4 200 of neighbors f neighbors s Bandwidth ock saving strebule	NogRovd 4475 1 Utilization (%): 55 Burit Stee Inter Frame Gi Inter Frame Gi	A354 4354 b2 ap: 12 ap: 12 ap: 12 ap: 112 bytes ∨	<ul> <li>e</li> <li>e</li></ul>	0 00:04 auto > 61060 30.100.100.1 2.2.1 30.100.100.1 30.100.100.1 30.000.1 30.000.1 9.0000 Perturnation	:47 56 ;Step=0.0.1.0 00	0000		
Neighbhor 200, 200, 200, 1 Total number of Source Destination IPvd Modif Header Option Gateway Schedung Mode © Part Based Destination Gateway Schedung Mode © Part Based Ratus Active Ratus Active	V AS 4 200 of neighbors f neighbors S Bandwidth S Sandwidth Name 1 Sch	Ns.gRcvd 4475 1 b Utilization (%): 55 Burst Site: Inter Frame Gi Inter Frame Gi Inter Frame Gi	A354 4354 k2	<ul> <li>Ø</li> <li>Ø</li></ul>	0 00:04	2:47 56	0000	Traffic Pattern	Туре
Neighbhor 208, 209, 209, 1 Total number of Source Destination Gateway Streduling Mode @ Port Based O Lod per Stream Bi datanced batter Gateway Streduling Mode Stream Based Status Active	V AS 4 200 of neighbors ier is Bandwidth saving is the time man block gid. Schedule Name 1 BGP 0	Ns.gRovd 4475 1 hUtilization (%): SS Burst Size: Inter Frane G Inter Frane G Inter King A	4354 4354 A2 ap: 12 ap:Unit: bytes ~	<ul> <li>e</li> <li>e</li> <li>e</li> <li>f</li> <li>f</li></ul>	0 00:04 auto > 61060 10.100.100.1 2.2.1 bunt = 500000 10.100.100.10 Bunts 500000 PertLoad arabical example Controlled By generator	247 56	8668	Traffic Pattern Par	Type
Neighbhor 208.209.200.1 Total number of Checksum (int) Source Destination Invel Modified Header Option Gateway Scheduling Mode @ Part Based Dest Based Status Active Status Active	V AS 4 200 of neighbors s Bandwidth s b b b b b b b b c c c c c c c c c c c c c	Ns.gRovd 4475 1 bUblization (%): Star Burst Ster: Enter Freme Gi Inter Freme Gi Inter Freme Gi Inter Galaction (%): Star Burst Ster: Inter Freme Gi	A354 4354 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<ul> <li>e</li> <li>e</li></ul>	0 00:04 auto > 61060 30.100.100.1 2.2.1 aunt = 500000 30.100.100.1 8usts \$ 50000 PortLoad PortLoad Controlled By generator	2:47 56	8668	Traffic Pattern Par	Type For
Neighbhor 209.209.200.1 Total number of Source Destination Toya Modef Header Option Gateway Schedung Mode @ Port Based Diad year Stream Bi Advanced bater Cong Divide are Manual Based	V AS 4 200 of neighbors s Bandwidth Solution Solut	Ns.gRovd 4475 1 Ublization (%): 55 Burts Sze: Inter Frame G Inter Frame G Inter Frame G	A354 4354	<ul> <li>e</li> <li>e</li></ul>	0 00:04	2:47 56	8668	Traffic Pattern	Tipe
Neighbhor 208.209.200.1 Total number of Source Destination Evention Stream (int) Source Destination Event Modef Header Option Gateway Schedung Mode @ Port Based Status Active Status Active Status Active	V AS 4 200 of neighbors S Bandwidth ock Bandwidth ock S Bandwidth Bandwidth Bandwidth	Ns.gRovd 4475 1 Utilization (%): 55 Burst Site: Inter Frame Gi Dickto ad. 0 Fags Index Cickto ad. 0	A354 4354 k2	O     O	0 00:04	2:47 56	00000	Traffic Pattern Pair	Type
Neighbhor 208.209.200.1 Total number of Source Destination Event Model Header Option Gateway Schedung Mode © Port Based Chard Based Status Active Status Active	V AS 4 200 of neighbors F neighbors S Bandwidth Sobolit Name 1 BGP 0 1 1 Total Stream Block	Ns.gRovd 4475 1 b Ublication (%): 50 Burst Stee: Inter Frame G Inter Frame G Inter Frame G Inter Art of P	A354 4354 22 1 ao: 12 ao: 12 ao: 12 ao: 12 ao: 0:10:00000	O     O	0 00:04	2:47 56		Traffic Pattern	Type Poor I
Neighbhor 208, 209, 209, 1 Total number of Source Destination EVAMODE Part Based Steduling Mode @ Part Based Diad per Stram Bil Advanced bitterit Advanced bitterit Steduling Mode @ Part Based Status Active Steduling Mode Status Active Status Ac	V AS 4 200 of neighbors ier is Bandwidth ock Bandwidth is Bandwidth 1 Total Stream Bloc	Ns.gRovd 4475 1 bUblization (%): St Burst Size: biter Frame G Diter Krame G Diter Kram	A354 4354 4354 ap: 12 ap: 12 ap: 12 ap: 12 ap: 12 ap: 13 ap: 12 ap: 13 ap: 13 ap: 14 a	O	0 00:04 auto > 61060 auto > 610	247 56	RR Ports: All Ports	Traffic Pattern Par	Tipe Par Par Par
Neighbhor 200.200.200.1 Total number o Source Destination Destinat	V AS 4 200 of neighbors S Bandwidth S Bandwidth S S 1 1 Total Stream Bloc am Results Chang Basic Sequencing A Basic Sequencing A	Ns.gRcvd 4475 1 bUblization (%): 51 biter Frame G biter Fr	A354  4354  22  1  ap: 12 ap: 12 ap: 11  2  ap: 14  3  ap: 14  ap: 12 ap: 14	O	0 00:04 auto > 61060 auto > 61060 auto > 61060 auto > 0.100.100.1 2.2.1 auto = 500000 0.100.100.10 Busts S0000 PertLoad arabical example controlled By generator left Tx Ports: Al F	2 47 56	Ree Ports: All Ports	Traffic Pattern Par	Type Port Port Port Pe Courter Mode:
Neighbhor 200.200.200.1 Total number o Source Destination Destinat	V AS 4 200 of neighbors Bandwidth S S S S S S S S S S S S S	NegRovd 4475 1 Utilization (%): 55 Burts Sze: Inter Frame G Inter Frame G Inter Frame G Inter Sze: Inter Sze: Inte	A354  A35  A35	O	0         00:00           auto > 61060         00.100.100.1           z.2.1         00.100.100.1           yunt = 500000         00.100.100.1           Barats         >>           500000         Perticed           grammatical scample         ControlledBy           controlledBy         generator           extra transmitter         0           perticed         0           generator         0           perticed         0           generator         0           perticed         0           perticed         0           periced         0	1:47         56           r;Step =0.0.1.0         00           2         Load Unit         Load           2         Load Unit         Load           2         Tr Count (bits)         Selection           ps)         Tx Count (bits)         Sizzanou count	Rx Ports: All Ports Rx Count (bits) 522.000.000	Traffic Pattern Pair Pair TxL1 Court (bits) S32,000,000 S	Type Avr Avr Pe Courter Mode: Is L1 Court (bits) Spanodol



Test Items	IPv6 Test				
Test Content	Test that the device can support IPv6.				
Test Topology	DUT1 2 A STC B				
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure IPv6 addresses on the interfaces, check1;</li> <li>Tester TGA creates an IPv6 interface and interacts with device port P1.</li> <li>Tester TGB creates an IPv6 interface and interacts with device port P2.</li> <li>TGA sends L3 IPv6 packets to TGB, check5;</li> <li>Delete the relevant configurations.</li> </ol>				
Expected	<ol> <li>Query IPv6 information.</li> <li>Data is forwarded correctly.</li> </ol>				
Results					
Actual Test Results	Configure IPv6 addresses config interface ip add Ethernet0 2001::100/64 config interface ip add Ethernet8 2002::100/64 show ipv6 interface ip -6 neigh root@sonic:~# config interface ip add Ethernet16 2001::100/64 root@sonic:~# config interface ip add Ethernet18 2002::100/64 root@sonic:~# config interface ip add Ethernet18 2002::100/64 root@sonic:~# ip -6 neigh 2002::4 dev Ethernet18 11addr 00:10:94:00:00:02 REACHABLE 2001::4 dev Ethernet16 11addr 00:00:01:09:00:02 REACHABLE root@sonic:~# root@sonic:				



EthernetII IPv6			
Frames	Name		Value
Create new Frame >	E Fram	ne	
Save Frame as	말	EthernetII	
Manage Frame		Preamble (hex)	fb555555555555555555555555555555555555
Templates		Destination MAC	00:10:94:00:00:02
Actions		Source MAC	00:00:01:00:00:02
Actions		EtherType (hex)	<auto>IPv6</auto>
Link Modifiers //EDe	÷-1	IPv6 Header	
enterio enteraj vi Das		Version (int)	6
Others		Traffic Class (hex)	00
Expand All		- Flow label (hex)	0000
Collapse All		Payload length (int)	<auto> calculated</auto>
		Next header (int)	<auto>IPv6-NoNx</auto>
		- Hop limit (int)	255
		Source Address	2001::4
		Destination Address	2002::4
		Gateway	2001::100







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Remarks						
4.7 IPv6 Route ta	able specifications					
Test Items	IPv6 Route table specifications					
Test Content	IPv6 Route table specifications Test					
Test Topology	DUT1 1 2 A STC B					
Test Steps	<ul> <li>1. Set up the test environment as shown in the diagram.</li> <li>2. Configure DUT port 1 with IPv6 address 2001::100/64 and port 2 v 2002::100/64.</li> <li>3. Configure DUT BGP AS100; set neighbor as 2002::1/64 (AS200).</li> <li>4. TGB (2002::1/64) establishes an eBGP neighbor with the device and advert 610,000 routes, check1;</li> <li>5. Delete the relevant configurations.</li> </ul>					
Expected Results	Check1: View the maximum number of routes that BGP can learn.					
	Configure IP address					
	config interface ip add Ethernet0 2001::100/64					
	config interface ip add Ethernet8 2002::200/64					
	Configure to accept IPv6 link-local addresses as neighbors.					
Actual Test Results	config interface ipv6 enable use-link-local-only Ethernet8 config interface ipv6 enable use-link-local-only Ethernet16 Configure DUT BGP vtysh configure terminal router bgp 100 neighbor 2002::1 remote-as 200 no bgp ebgp-requires-policy address-family ipv6 unicast neighbor 2002::1 activate network 2002::200/64					



	root@sonic:~# root@sonic:~# ip -6 route show   wc -1 610029	
	root@sonic:~# show ipv6 bgp summary	
	IPv6 Unicast Summary: BGP router identifier <u>172.21.120.7</u> , local AS number 100 BGP table version 610001 RIB entries 1220001, using 224480184 bytes of memory Peers 1, using 740296 KiB of memory Peer groups 0, using 0 bytes of memory	vrf-id 0
	Neighbhor V AS MsgRcvd MsgSent TblVer	InQ OutQ Up/Down State/PfxRcd NeighborName
	<u>2002::1</u> 4 200 2657 2600 0	0 0 00:00:46 610000
	Total number of neighbors 1 root≜sonic.∼#	
	Send data flow to the learned route tab	le entries.
	Preamble (hex)	fb555555555555555555555555555555555555
	Destination MAC	8C:5D:B2:B6:00:00
	Source MAC	00:10:94:00:00:02
	EtherType (hex)	<auto> IPv6</auto>
	· IPv6 Header	
	Version (int)	6
	Traffic Class (hex)	00
	Flow label (hex)	0000
	Payload length (int)	<auto> calculated</auto>
	- Next header (int)	<auto> IPv6-NoNxt</auto>
	— Hop limit (int)	255
	- Source Address	2001::2
	Destination Address	3000::1
	IPv6 Modifier	Count=610000;Step=::1
	Gateway	::0
	Traffic Approprie View Results 1	
	Streams > Stream Block Results (Change Result Yew + 🎲 🔁 🗱 🖬 🔌 1 dr1 🕨 🖗 ( Change Courter Mode: Basic Mode + Basic Country: Errors Basic Sequencia: Advanced Sequencia; Mistegruns	Show: Al Ports • Port Traffic and Counters > Basic Traffic Results : Onange Result New • S 5 1 1 4 4 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1
	Tx Port Name         Rx Port Names         Stream Block         Tx Count (Prames)         Rx Count (Prames)         Dropped Count (Prames)           9 Ont //410         Pvic //410         Pvic //410         Pvic //410         Add Prames)	Dropped         In-order Court         (Frames)         (Frames)         10581 / K.Court (bits)         10581 / K.Court (bits)           Prom Percent         (Prames)         0 dot / K/4/3         610.000         6/         6//4/4/3
		1 <b>n</b> -t
Test results	Pass	
Remarks	Send 610,000 packets and receive 609	,999 packets.
4.8 IPv6 Route ta	ble specifications-Global	
Test Items	IPv6 Route table specifications	
Test Content	IPv6 IPv6 Route table specifications T	est



Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure DUT port P1 with IPv6 address 2001::100/64 and port P2 with 2002::100/64.</li> <li>Configure the route map.</li> <li>Configure DUT BGP AS100; advertise network 2002::1/64 (AS200) and bind the route map.</li> <li>TGB (2002::1/64) establishes an eBGP neighbor with the device and advertises 610,000 routes. Check 1.</li> </ol>
Expected Results	Check 1: View the maximum number of routes that BGP can learn.
Actual Test Results	Configure IP address config interface ip add Ethernet0 2001::100/64 config interface ip add Ethernet8 2002::200/64 Configure Route map vtysh configure terminal route-map FROM_BGP_PEER_V6 permit 1 on-match next set ipv6 next-hop prefer-global Configure BGP vtysh configure terminal router bgp 100 neighbor 2002::1 remote-as 200 no bgp ebgp-requires-policy no bgp default ipv4-unicast address-family ipv6 unicast neighbor 2002::1 activate neighbor 2002::1 soft-reconfiguration inbound neighbor 2002::1 route-map FROM_BGP_PEER_V6 in network 2002::200/64



	root@sonic:~# show ipv6 bgp	summary					
	IPv6 Unicast Summary: RCP router identifier 172-21	129.7.100	al AS number 100 yrf-id 0				
	BGP Touter Lorentiner (72,2).120.7, 10081 AS number 100 VT-10 0 BGP table version 610001 DTB entries 1220001 using 224400104 bytes of memory						
	RIB entries 1220001, USING 224430134 bytes of memory Peers 1, Using 740296 KiB of memory Deer crisis A Using A bytes of memory						
	· · · · 3· · · · · · · · · · · · · · ·						
	Neighbhor V AS Msg	Rovd Ms	gSent TblVer InQ OutQ Up/Dow	vn State/PfxRcd NeighborName			
	<u>2002::1</u> 4 200		2599 0 0 0 00:01:	86 619999			
	Total number of neighbors 1 root@sonic:~						
	rootesonic:~# 1p -6 route sho 610029	om   mc −T					
	TGA sends 610,00	0 Laye	er 3 IPv6 packets to the	eBGP routes advertised by TGB, with			
	destination IPv6 ad	ldresse	s ranging from 3000::1 t	to 3000:0::9:4ecf.			
	Frames Create new Frame >	Name		Value			
		E Fra	ne				
	Save Frame as	T.		Arresterreit			
	Manage Frame		Preamble (hex)	105555555555555555555555555555555555555			
	Templates		Destination MAC	80:50:82:86:00:00			
	Actions		Source MAC	00:10:94:00:00:02			
	Add Header(s)		EtherType (hex)	<auto> IPv6</auto>			
	Link Modifiers/VFDs		IPv6 Header				
	Others		Version (int)	6			
	Expand All		Traffic Class (hex)	00			
	Collapse All		Flow label (hex)	0000			
			Payload length (int)	<auto> calculated</auto>			
			Next header (int)	<auto> IPv6-NoNxt</auto>			
			Hop limit (int)	255			
			Source Address	2001::2			
		· ·	Destination Address	3000::1			
			IPv6 Modifier	Count=610000;Step=::1			
			I Gateway	::0			
	D 1 .						
	Packet						
	Traffic Appresate View Results 1						
	Stream Software Results   Ourope Result Vew • 🍪 🏷 🛼 👀 🤞 👔 Tori 1 🖗 Stown: Al Pots • Port Traffic and Counters > Basic Traffic Results   Ourope Result Vew • 🔯 🖏 🐁 👀						
	Unange Guetter Mode: Basic Bode • Basic Counter: Errors: Triger: Trieser: Undersize/De						
	Tx Port Name         Rx Port Names         Block         (P           b         Port //4/9         Port //4/10         IPV6-BGP         6	rames) (Fr 10,000 601	(Frames) (Frames) (Frames) (Frames) (Frames) (Frames) (Frames)	▶ Port.//4/9         \$10,000         Ø         \$24,640,000         Ø           ▶ Port.//4/10         Ø         609,999         Ø         \$24,638,976			
Test results	PASS						
i est results	1 455						
	ip -6 route show d	lisplays	s that 610,0014 routes an	re learned, and the traffic flow can b			
Remarks	established.						

# 五、QoS

5.1 Classification-COS		
Test Items	Classfication COS Test	





Test Content	The testing device can classify according to the set Classfication COS and bind it to the
	ingress port.
Test Topology	DUTI 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Create a dot1p-tc and map dot1p to TC.</li> <li>Bind the created dot1p-tc to the port, check1;</li> <li>View the created dot1p-tc and its binding, check2.</li> </ol>
Expected Results	Check1: Configuration is successful. Check2: The displayed content is consistent with the creation.
Actual Test Results	Configure dot1p-tc mapping and bind it to the interface. config qos dot1p-tc add dot1p_tcdot1p 0tc 0 config interface qos dot1p-tc bind Ethernet0 dot1p_tc show qos dot1p-tc show interface qos <sup>39]</sup> root@sonic:/home/admin# <sup>39]</sup> root@sonic:/home/admin# <sup>44]</sup> root@sonic:/home/admin# config qos dot1p-tc add dot1p_tcdot1p 0tc 0 <sup>54]</sup> root@sonic:/home/admin# config interface qos dot1p-tc bind Ethernet0 dot1p_tc <sup>72]</sup> dot1p-tc policy: dot1p_tc <sup>72]</sup> dot1p TC <sup>72]</sup> 0 0 0 <sup>73]</sup> root@sonic:/home/admin# show interface qos <sup>83]</sup> Ethernet0: <sup>74]</sup> Dot1p to TC: dot1p_tc <sup>74]</sup> <sup>75]</sup> root@sonic:/home/admin# <sup>76]</sup> root@sonic:/home/admin# <sup>76]</sup> root@sonic:/home/admin# <sup>76]</sup> root@sonic:/home/admin# <sup>76]</sup> root@sonic:/home/admin# <sup>76]</sup> root@sonic:/home/admin#
Test results	PASS
Remarks	

# 5.2 Classification-DSCP

Test Items	Classfication DSCP Test
Test Content	The testing device can classify according to the set Classification DSCP and bind it to



	the ingress port.
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Create a dscp-tc mapping and map DSCP values to Traffic Classes (TC).</li> <li>Bind the created dscp-tc mapping to the port, check1;</li> <li>View the created dscp-tc mapping and its binding, check2.</li> </ol>
Expected Results	Check1: Configuration successful. Check2: Displayed content matches the configuration.
Actual Test Results	<pre>config qos dscp-tc add dscp_to_tc_profiledscp 0tc 1 config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile show interface qos show interface qos is contented in the show qos dscp-tc id dscp-tc policy: dscp_to_tc_profile dscp-tc policy: dscp_to_tc_profile d 0 0 d 3 3 end proot@sonic:/home/admin# show interfaces qos iEthernet0: DSCP to TC: dscp_to_tc_profile pfc-priority: 0,3 PFC to Queue: pfc_queue_profile TC to PG: tc-pg-prof TC to Queue: tc-queue-prof DSCP to TC: dscp_to_tc_profile pfc-priority: 0,3 PFC to Queue: pfc_queue_profile DSCP to TC: dscp_to_tc_profile pfc-priority: 0,3 PFC to Queue: pfc_queue_profile TC to PG: tc-pg-prof TC to Queue: pfc_queue_profile TC to PG: tc-pg-prof TC to Queue: tc-queue_prof TC to Queue: tc-queue_profile TC to PG: tc-pg-prof TC to Queue: tc-queue_prof TC to Queue: tc-queue_prof TC to Queue: tc-queue_prof</pre>
Test results	PASS





Remarks

5.3	<b>Marking-COS</b>	
0.0	111111111111111111111111111111111111111	

Test Items	Marking COS Test
Test Content	The testing equipment can classify traffic according to the preset ingress Classification
	COS and directly translate it to the coress Marking COS
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Create a dot1p-tc mapping that maps dot1p 3 to TC 1.</li> <li>Bind the created dot1p-tc mapping to port DUTP1.</li> <li>Create a remark rule to remark TC 1 packets with dot1p 1.</li> <li>Bind the created remark rule to port DUTP2, check1.</li> <li>View the created QoS rules and their bindings ,check2.</li> <li>Create VLAN 100 and add ports DUTP1 and DUTP2 as tagged members.</li> <li>Send packets with VLAN Priority 3 from TGA.Capture packets at TGB to check the VLAN Priority value ,check3.</li> </ol>
Expected Results	Check1: Configuration and binding are successful. Check2: The displayed QoS configuration matches the settings. Check3: The VLAN priority value in the packets received by TGB is changed to 1.
Actual Test Results	config qos dot1p-tc add dot1p_tcdot1p 3tc 1 config interface qos dot1p-tc bind Ethernet0 dot1p_tc config qos remark dot1p add remark_pcptc 1dot1p 1 config interface qos remark dot1p bind Ethernet8 remark_pcp show qos dot1p-tc show qos remark dot1p show interface qos





5.4 Marking-DSCP



Test Items	Marking DSCP Test			
Test Content	The testing equipment can classify traffic according to the preset ingress Classification			
	DSCP and directly translate it to the egress Marking DSCP.			
Test Topology				
	1. Set up the test environment according to the diagram.			
	2. Create a dscp-tc mapping that maps DSCP 0 to TC 3.			
	3. Bind the created dscp-tc mapping to port DUTP1.			
	4、Create a remark rule to remark TC 3 packets with DSCP 1.			
	5、Bind the created remark rule to port DUTP2, check1.			
Test Steps	6、View the created QoS rules and their bindings , check2.			
	7、Create VLAN 100 and add ports DUTP1 and DUTP2 as untagged members.			
	8、 Send IPv4 packets with DSCP 0 from TGA. Capture packets at TGB to check			
	the DSCP value.			
	9、 Send IPv6 packets with Traffic Class 0 from TGA. Capture packets at TGB to check			
	the Traffic Class value ,check3.			
Expected	Check1: Configuration and binding are successful. Check2: The displayed OoS configuration matches the settings			
1	Check3: The DSCP value of IPv4 packets and the Traffic Class value of IPv6 packets			
Results	received by TGB are both changed to 0x04.			
	config qos dscp-tc add dscp_to_tc_profiledscp 0tc 3			
	config interface dos dscp-tc bind EthernetU dscp_to_tc_profile			
Actual Test	config interface dos remark dscn hind Ethernet? remark_dscn			
Results	show gos dscp-tc			
	show qos remark dscp			
	show interface qos			



root@sonic:/home/admin# root@sonic:/home/admin# show qos dscp-tc dscp-tc policy: dscp\_to\_tc\_profile DSCP TC root@sonic:/home/admin# show gos remark dscp dscp policy: remark\_dscp DSCP TC root@sonic:/home/admin# show interface qos Ethernet2: IP DSCP remark: remark\_dscp root@sonic:/home/admin# config vlan add 100 config vlan member add 100 Ethernet0 -u config vlan member add 100 Ethernet2 -u | 白井島市に建設・ 
 Laiv
 (25)

 Uinkraw
 (25)

< Destination 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 128 0x04 Protect [Pvd 4] [Pv Duere 1902, 85.1.2 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 192.0.0.1 128 0x04 14 0.013000 15 0.014000 16 0.015000 17 0.016000 19 0.018000 20 0.019000 21 0.02000 22 0.021000 23 0.022000 24 0.023000 
 Description
 Section
 Intil Length: 110 Ghard Hizaris: bd/544 Fagin: L Offset: 0 Time 11: 0 Offset: 0 Time 10 Star (25) Protocol: Ubhone (25) Protocol: Ubhone (25) Protocol: Ubhone (25) Protocol: Ubhone (25) Dectification Address: 152.8.6.1 tat (20 Bytes) 
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 Lef. 10% no next header 1 2000::2 Pettinetic 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 2000::1 17 0.010000 18 0.017000 19 0.018000 20 0.019000 20 0.019000 21 0.020000 22 0.021000 23 0.022000 24 0.023000 Test results PASS



Remarks

#### 5.5 DiffServ

Test Items	Diffserv Functional Test
Test Content	The testing equipment can forward packets according to the DiffServ configuration.
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Create VLAN 100 and add ports DUT P1 and DUTP2 as untagged members.</li> <li>Create a diffserv-type ACL to match DSCP values and enable policer actions.</li> <li>Bind the previously created diffserv-type ACL to the ingress direction of the TGA port.</li> <li>Create a policer rule to modify DSCP values for packets of different colors (e.g., green, yellow, red).</li> <li>Add the policer rule to the ACL ,Check1.</li> <li>Send DSCP-matching traffic from TGA at a rate exceeding the PIR (Peak Information Rate). Verify behavior ,Check2.</li> <li>Capture packets at TGB and check the DSCP values.</li> </ol>
Expected Results	Check1: Configuration is successful. Check2: Packets are forwarded successfully, and DSCP values are modified according to the DiffServ settings.
Actual Test Results	<ul> <li>config vlan add 100</li> <li>config vlan member add 100 Ethernet0 -u</li> <li>config vlan member add 100 Ethernet8 -u</li> <li>Create an ACL of type diffserv-type that matches DSCP values and supports policer actions.</li> <li>config acl add table-type diffserv-typematch-dscpaction-set-policer</li> <li>show acl table-type</li> <li>root@sonic:/home/admin# config acl add table-type diffserv-typematch-dscpaction-set-policer</li> <li>root@sonic:/home/admin# show acl table-type</li> <li>Name Bind Point Match Policer</li> <li></li></ul>



_	
	IP type root@sonic:/home/admin# config acl add table diffserv-table diffserv-type -s ingress -p Ethernet68
	root@sonic:/home/admin# show acl table Name Type Binding Description Stage Policer
	diffserv-table diffserv-type Ethernet68 diffserv-table ingress Yes
	root@sonic:/home/admin# config policer add pol tr_tcm packets blindcir 100cbs 200pir 300pbs 400green_set_dscp 0yellow_set_dscp 20red_set_dscp 30 root@sonic:/home/admin# show policer Name Type Mode Color Source CIR CBS PIR PBS Green Packet Action Yellow Packet Action Red Packet Action
	pol packets tr_tcm blind 100 200 300 400 DSCP: 0 DSCP: 20 DSCP: 30
	root@sonic:/home/admin# config acl add rule diffserv-table permitpriority 10000 dscp 0policer pol
	Name Type Mode Color Source CIR CBS PIR PBS Green Packet Action Yellow Packet Action Red Packet Action
	pol packets tr_tcm blind 100 200 300 400 DSCP: 0 DSCP: 20 DSCP: 30
	root@sonic:/home/admin# show acl rule Table Rule Priority Action Match Status
	diffserv-table 10000 10000 FORWARD DSCP: 0 Active POLICER: pol IP TYPE: IP
	root@sonic:/home/admin# show vlan brief
	VLAN ID   IP Address   Ports   Port   Proxy   DHCP Helper   DHCP Relay Configuration        Tagging   ARP   Address
	+=====+====+====++=====++=====++=====++====
	=+==========+=========================
	+++++++
	root@sonic:/home/admin# show acl table Name Type Binding Description Stage Policer
	diffserv-table diffserv-type Ethernet68 diffserv-table ingress Yes config policer add pol tr_tcm packets blindcir 100cbs 200pir 300pbs 400 green_set_dscp 0yellow_set_dscp 20red_set_dscp 30 config acl add rule diffserv-table permitpriority 10000dscp 0policer pol show policer
	TGA sends packets with DSCP 0 at a rate of 400 packets per second.





Preamble (hex)     Destination MAC     Source MAC     EtherType (hex)	fb555555555555555555555555555555555555
Destination MAC     Source MAC     EtherType (hex)	00:10:94:00:00:02
Source MAC EtherType (hex)	
EtherType (hex)	00:10:94:00:00:01
	<auto> Internet IP</auto>
- IPv4 Header	
··· Version (int)	<auto> 4</auto>
Header length (int)	<auto> 5</auto>
- ToS/DiffServ	tos (0x00)
Total length (int)	<auto> calculated</auto>
Identification (int)	٥
Frame/sec (fps) :	400
O Percent (%) :	0.000473590528
Frame/sec (fps) :	400
O bps :	473590
O Kbps :	473.590528
O Mbps :	0.473590528
O Inter burst gap (bytes)	: 31249864
O L2 Rate (bps):	409600



	1582 3.952500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1583 3.955000	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1584 3.957500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1586 3 962500	192 168 1 68	192 168 1 70	TPv4	128 Unknown	(253)	
	1587 3 965999	102 169 1 69	102 169 1 70	TDuA	120 Unknown	(253)	
	1507 3.963666	192.100.1.00	192.100.1.70	16.4	120 UIKIIUWI	(255)	
	1588 3.967500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1590 3.972500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1591 3.975000	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1592 3.977500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1594 3 982500	192 168 1 68	192 168 1 70	TPv4	128 Unknown	(253)	
	1505 3 085000	102 169 1 69	102 169 1 70	TDud	120 Unknown	(253)	
	1595 3.985000	192.100.1.00	192.100.1.70	IFV4	120 UNKNOWN	(255)	
	1596 3.987500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1598 3.992500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1599 3.995000	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1600 3.997500	192.168.1.68	192.168.1.70	IPv4	128 Unknown	(253)	
	1602 4-002500	192,168,1,68	192,168,1,70	TPv4	128 Unknown	(253)	
	1002 4.002300	172.100.1.00	172.100.1.70	11 44	120 UNKNOWN	(255)	
	<ul> <li>Differentiated</li> <li>0101 00 = C</li> <li>00 = E</li> <li>Total Length: 1</li> <li>Identification:</li> <li>Flags: 0x00</li> <li>Fragment Offset</li> <li>Time to Live: 2</li> <li>Protocol: Unknow</li> <li>Header Checksum</li> <li>[Header checksum</li> <li>(Header checksum</li> <li>1631 4.075000</li> <li>1633 4.085000</li> <li>1634 4.055000</li> <li>1634 4.055000</li> <li>1634 4.105000</li> <li>1634 4.105000</li> <li>1634 4.105000</li> <li>1634 4.105000</li> <li>1634 4.105000</li> <li>1635 4.135000</li> <li>1635 4.135000</li> <li>1655 4.135000</li> <li>1654 4.155000</li> <li>1654 4.155000</li> <li>1655 4.135000</li> <li>1655 4.135000</li> <li>1655 4.145000</li> <li>1655 4.145000</li> <li>1655 4.145000</li> <li>1654 4.155000</li> <li>1654 4.155000</li></ul>	Services Field: 0x5 hifferentiated Services plifferentiated Services plifferentiated Services plifferentiated Services (xplicit Congestion 10 0x0641 (1601) : 0 55 wn (253) : 0x3027 [validation 192.168.1.68 192.168.	<pre>00 (DSCP: AF22, ECN ices Codepoint: Ass Notification: Not 192.168.1.70 192.168</pre>	Not-ECT)           ured Forwarding           ECN-Capable Tr           ECN-Capable Tr           IPv4           IPv6           IPv6           IPv6           IPv6           IPv6           IPv6           IPv6	g 22 (20) ansport (θ) nknown (253) nknown (	view_capture_172-21-120-222_1_33 70)	
Test results	PASS						
Remarks							
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L	1						

#### 5.6 PFC (Priority Flow Control)

Test Items	PFC Functional Test
Test Content	The testing equipment's PFC (Priority Flow Control) can trigger PFC packets and stop
	traffic based on PFC priorities.
Test Topology	



	DUT1 1 2 3 C STC B
	1. Set up the test environment according to the diagram.
	2、Map dot1p priority 3 to tc3 and pg3.
	3、Bind the QoS mapping to the port.
	4、Enable PFC priority 3 on DUTP1 and DUTP2.
	5、Create VLAN100 and add DUT P1-P3 as tagged members.
	6、TGB and TGC send bidirectional VLAN tagged traffic, with TGC sending at 100% rate to TGB.
Test Steps	7、TGA sends line-rate VLAN100 packets with priority 3 to TGB (check1).
	8、TGA captures packets and confirms PFC priority 3 packets sent by the device
	(check2).
	9. Stop traffic transmission on all ports.
	10, Create pfc-priority-queue to map PFC priority 3 to queue3.
	11、Bind the created pfc-priority-queue to TGB.
	12、TGA sends line-rate VLAN100 packets with priority 3 to TGB.
	13、TGB sends PFC priority 3 packets (check3).
Exported Posults	Check1: Configuration is successful. Check2: The device sends PFC priority 3 packets.
Expected Results	Check3: TGB stops receiving VLAN100 packets with priority 3 sent from TGA.
	Configure QOS config gos dot1n-to add dot1n to to profiledot1n 3to 3
	config interface qos dot1p-tc bind Ethernet0 dot1p_to_tc_profile
	config interface qos dot1p-tc bind Ethernet8 dot1p_to_tc_profile
	config interface qos dot lp-tc bind Ethernet 16 dot lp_to_tc_profile
	config interface gos tc-pg bind Ethernet0 tc-pg-prof
	config interface qos tc-pg bind Ethernet8 tc-pg-prof
Actual Test	config interface qos tc-pg bind Ethernet16 tc-pg-prof
Kesuits	config dos tc-queue add tc-queue-proftc 3queue 3 config interface dos tc-queue bind Ethernet0 tc-queue-prof
	config interface qos to queue bind Ethernet8 to-queue-prof
	config interface qos tc-queue bind Ethernet16 tc-queue-prof
	config interface pfc priority Ethernet0 3 on config interface pfc priority Ethernet8 3 on
	Configure vlan











# 5.7 Asym PFC

Test Items	Asym PFC Functional Test
Test Content	The testing equipment's Asym PFC (Asymmetric Priority Flow Control) can correctly
	trigger PFC packets and stop traffic based on PFC priorities.
Test Topology	$ \begin{array}{c}     DUT1 \\     1 \\     2 \\     3 \\     C \\     A \\     STC \\     B \\   \end{array} $
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Map dot1p priority 3 to tc3 and pg3.</li> <li>Bind the QoS mapping to the port.</li> <li>Enable PFC priority 3 and Asym PFC on DUTP1 and DUTP2.</li> <li>Create VLAN100 and add DUT P1-P3 as tagged members.</li> <li>TGB and TGC send bidirectional VLAN tagged traffic, with TGC sending at 100% rate to TGB , check1.</li> <li>TGA sends line-rate VLAN100 packets with priority 3 to TGB.</li> <li>TGA captures packets and confirms PFC priority 3 packets sent by the device , check2.</li> <li>Stop traffic transmission on all ports.</li> <li>Create pfc-priority-queue to map PFC priority 3 to queue3.</li> <li>Bind the created pfc-priority-queue to TGB.</li> <li>TGA sends line-rate VLAN100 packets with priority 3 to TGB.</li> <li>TGA sends line-rate VLAN100 packets with priority 3 to TGB.</li> </ol>
Expected Results	Check1: Configuration is successful. Check2: The device sends PFC priority 3 packets. Check3: TGB stops receiving VLAN100 priority 3 packets sent from TGA.
Actual Test Results	Configure QOS config qos dot1p-tc add dot1p_to_tc_profiledot1p 3tc 3 config interface qos dot1p-tc bind Ethernet0 dot1p_to_tc_profile config interface qos dot1p-tc bind Ethernet8 dot1p_to_tc_profile config interface qos dot1p-tc bind Ethernet16 dot1p_to_tc_profile config qos tc-pg add tc-pg-proftc 3pg 3



config interface qos tc-pg bind Ethernet0 tc-pg-prof config interface qos tc-pg bind Ethernet8 tc-pg-prof config interface qos tc-pg bind Ethernet16 tc-pg-prof config qos tc-queue add tc-queue-prof --tc 3 --queue 3 config interface qos tc-queue bind Ethernet0 tc-queue-prof config interface qos tc-queue bind Ethernet8 tc-queue-prof config interface qos tc-queue bind Ethernet16 tc-queue-prof config interface pfc priority Ethernet20 3 on config interface pfc priority Ethernet22 3 on config interface pfc asymmetric Ethernet20 on config interface pfc asymmetric Ethernet22 on config interface pfc asymmetric Ethernet20 on config interface pfc asymmetric Ethernet22 on 2000 2000 8000 8000 8000 vlan config vlan add 100 config vlan member add 100 Ethernet20 config vlan member add 100 Ethernet22 Rate limit port 22. TGB and TGC send bidirectional VLAN tagged traffic, with TGC sending traffic to TGB at 100% rate. TGA sends line-rate VLAN 100 packets with priority 3 to TGB. TGA captures packets and can see the PFC priority 3 packets sent by the device. Port A EthernetII Preamble (hex) Destination MAC 00:10:94:00:00:02 Source MAC 00:10:94:00:00:01 - Vlans - Vlan Type (hex) 8100 Priority (bits) 011 CFI (bit) 0 ID (int) 100 <auto> Int ID = 100 EtherType (hex) - IPv4 Header Port B



Et	hernétli	
	Preamble (hex)	fb555555555555555555555555555555555555
	Destination MAC	00:10:94:00:00:03
-	Source MAC	00:10:94:00:00:02
¢	Vlans	
	≟- Vlan	
	··· Type (hex)	8100
	Priority (bits)	000
	··· CFI (bit)	0
	ID (int)	100
L.	EtherType (hex)	<auto> Internet IP</auto>
	ThernetII	fb555555555555555555555555555555555555
	thernetII	
	Preamble (hex)	fb555555555555555555555555555555555555
	- Destination MAC	00:10:94:00:00:02
	Source MAC	00:10:94:00:00:03
[	Vlans	
	🔄 Vlan	
	Type (hex)	8100
	Priority (bits)	000
	- CFI (bit)	0
	ID (int)	100
	EtherType (hex)	<auto> Internet IF</auto>
<u> </u> -]	(Pv4 Header	
-	··· Version (int)	<auto> 4</auto>



620 1.21039	1 00:00:00_00:00:00 7 00:00:00_00:00:00	MAC-specific-ctrl-p. MAC C MAC-specific-ctrl-p. MAC C	- 64	Class Based Flow Class Based Flow	Control (CBFC) Pause Control (CBFC) Pause
9622 1.21064	3 00:00:00_00:00:00	MAC-specific-ctrl-p_ MAC C	- 64	Class Based Flow	Control [CBFC] Pause
9623 1.21076	4 00:00:00.00:00	MAC-specific-ctrl-p_ MAC C	- 64	Class Based Flow	Control [CBFC] Pause Control [CBFC] Pause
	0 00:00:00_00:00:00	MAC-specific.ctrl.p. MAC C	- 64	Class Based Flow	Control [CBFC] Pause
	7 80:00:00_00:00:00	MAC-specific-ctrl-p_ MAC C	64	Class Based Flow	Control [CBFC] Pause
	9 00:00:00:00:00				
	5 00100100_00100100 1 00100100_00100100	MAC-specific-ctrl-p. MAC C MAC-specific-ctrl-p. MAC C	- 64	Class Based Flow Class Based Flow	Control [CBFC] Pause Control [CBFC] Pause
	7 88:00:00_80:00:00	MAC-specific.ctrl-p_ MAC C	- 64	Class Based Flow	Control [CBFC] Pause
	9 00:00:00_00:00:00	MAC-specific-ctrl-p_ MAC C	- 64	Class Based Flow	Control [CBFC] Pausi
	4 88:00:00_80:00:00 8 80:00:00 88:00:00	MAC-specific-ctrl-p_ MAC C MAC-specific-ctrl-p_ MAC C	- 64 64	Class Based Flow	Control [CBFC] Pause Control [CBFC] Pause
	6 00:00:00:00:00:00				
fc-prion onfig onfig	ority-queue qos pfc-priority interface qos pf	-queue add pfc_q c-priority-queue l	ueue_pr oind Eth	rofilepfc-priorit	y 3queu _profile
op pa 3A s 3B so rt A	acket transmissi ends line-rate V ends destination	on on all ports. 'LAN 100 packets 1 learning packets	with p and PF	riority 3 to TGB. C priority 3 packe	ets.
op pa GA so GB so rt A	acket transmissi ends line-rate V ends destination	on on all ports. 'LAN 100 packets 1 learning packets	with p and PF	riority 3 to TGB. C priority 3 packe	ets.
op pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex)	on on all ports. 'LAN 100 packets 1 learning packets	with pr and PF	riority 3 to TGB. C priority 3 packe	ets.
op pa GA so GB so rt A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC	on on all ports. 'LAN 100 packets 1 learning packets	with pr and PF fb5555 00:10	riority 3 to TGB. C priority 3 packe 555555555555555555555555555555555555	ets.
GA so GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC	on on all ports. 'LAN 100 packets a learning packets	with p and PF fb5555 00:10 00:10	riority 3 to TGB. C priority 3 packe 5555555555555555 :94:00:00:02 :94:00:00:01	ets.
top pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC Vlans	on on all ports. 'LAN 100 packets a learning packets	with p: and PF fb555 00:10 00:10	riority 3 to TGB. C priority 3 packe 5555555555555555 1:94:00:00:02 1:94:00:00:01	ets.
top pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII "Preamble (hex) Destination MAC "Source MAC Vlans - Vlan	on on all ports. 'LAN 100 packets a learning packets	with p: and PF fb5555 00: 10 00: 10	riority 3 to TGB. C priority 3 packe 555555555555555555555555555555555555	ets.
top pa GA s GB s ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC Vlans Type (he	on on all ports. (LAN 100 packets a learning packets c	with pr and PF fb5555 00:10 00:10 8100	riority 3 to TGB. C priority 3 packe 555555555555555555555555555555555555	ets.
top pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC Vlans	on on all ports. TAN 100 packets I learning packets	with pr and PF fb5555 00:10 00:10 8100 011	riority 3 to TGB. C priority 3 packe 555555555555555 9:94:00:00:02 1:94:00:00:01	ets.
top pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC Vlans Vlan	on on all ports. (LAN 100 packets a learning packets (bits)	with pr and PF fb5555 00:10 00:10 00:10 8100 011 0	riority 3 to TGB. C priority 3 packe 555555555555555555555555555555555555	ets.
op pa GA s GB s ort A	acket transmissi ends line-rate V ends destination thernetII 	on on all ports. (LAN 100 packets a learning packets (bits)	with pr and PF fb5555 00:10 00:10 8100 011 0 100	riority 3 to TGB. C priority 3 packe 5555555555555555 1:94:00:00:02 1:94:00:00:01	ets.
top pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC Vlans 	on on all ports. (LAN 100 packets a learning packets (bits)	with pr and PF fb555 00:10 00:10 8100 011 0 100 <auto< td=""><td>riority 3 to TGB. C priority 3 packe 555555555555555 1:94:00:00:02 1:94:00:00:01</td><td>ets.</td></auto<>	riority 3 to TGB. C priority 3 packe 555555555555555 1:94:00:00:02 1:94:00:00:01	ets.
GP pa GA so GB so ort A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Vlans Vlan Vlan CFI (bit) ID (int) EtherType (hex) Priority (hex) CFI (bit)	on on all ports. (LAN 100 packets a learning packets (bits) (bits)	with prand PF and PF fb5555 00:10 00:10 00:10 011 0 100 <auto< td=""><td>riority 3 to TGB. C priority 3 packe 5555555555555555 1:94:00:00:02 1:94:00:00:01</td><td>ets.</td></auto<>	riority 3 to TGB. C priority 3 packe 5555555555555555 1:94:00:00:02 1:94:00:00:01	ets.
op pa GA s GB s rt A	acket transmissi ends line-rate V ends destination thernetII Preamble (hex) Destination MAC Source MAC Vlans - Vlan - Vlan - CFI (bit) ID (int) - EtherType (hex)	on on all ports. (LAN 100 packets a learning packets (bits) (bits)	with pr and PF fb555 00:10 00:10 00:10 8100 011 0 100 <auto< td=""><td>riority 3 to TGB. C priority 3 packe 55555555555 1:94:00:00:02 1:94:00:00:01</td><td>ets.</td></auto<>	riority 3 to TGB. C priority 3 packe 55555555555 1:94:00:00:02 1:94:00:00:01	ets.



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	)evices iraffic Generator	_	U Mani	udi pased		Schedule	ų.,,				<u>Sc</u>	heduling mo	ode grap
-1	fraffic Analyzer	5	Status	Active	Na	me	т	ags	Index	Con	trolledBy	Load Unit	t L
E O Port	Capture //4/2 [AC:81:85:01:D4:60/Eth	>			Str	eamBlock 2	C	lick to ad	0	gen	erator		
	Devices	-	-		Str	eamBlock 4	0	lick to ad	I	gen	erator		
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	Capture	-							-	-			
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treams > Detaile	Select Rx Ports: All Po	ge Resi	ult View	• Dan	ne Cour	ter Mode: Basic I	Mode	<ul> <li>Select</li> <li>Phil</li> </ul>	Tx Ports:		F	Port Traffic	and Co
Basic Counters E	irrors Basic Sequencing A	dvanci	ed Sequ	encing H	istogran	ns	Houe	10.1	ic addright				
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1/98304 2		99,999.	895	0		84,459,459	0	(F	ames) 27,259,110	2	0		
StreamBloc 4	0 9,995	9,999,9	45	0	and the second second	8,445,946	0	0			0		
StreamBloc 6	5,886,203,660,9 9,999	9,999,9. oo aaa	77 9/13	9,729,729,	842 7 345	8,445,946 84 450 450	8,445,946	5,	109,551,7	89 425	8,445 R4 45		
2750505 17		11111	705	1112011201	10 10	01,103,105	01,100,100		1027,220,	120	0.410		
Stop PFC	) on port B, ar	nd t	he t	raffic	rec	overs.							
	//4/1 raffic Generator raffic Analyzer apture //4/2 [AC:81:85:01:D4:60/E¥ evices raffic Generator raffic Generator	Sta	Manual Itus Q	Active	Name Stream	Schedule Block 2 Block 4	Tags Click to Click to	Inc o ad 0 o ad 2	lex	Controlled generator generator	Schedulin IBy Load	d Unit L	oad.
Settings	apture												_
		-											
		< Display	na Stea	m Blocks 1	2   Te	tal Stream Blocks: 2	Selected 1	of 2					_
	>		. y utea		2 1 10	us or other brocks: 2	, selected i						
ffic Aggregate Vie	w:Results 1			_			b. ball	elect Tx Po	rts:		Port Tr	affic and Co	ounte
ffic Aggregate Vie reams > Detaile	w:Results 1 d Stream Results   Change	Result	View -	1 E.	10 104	1 of 1	p pg 5						
ffic Aggregate Vie reams > Detaile Ports	w:Results 1 d Stream Results   Change •   Select Rx Ports: All Ports	Result s	View +	• Change	Counter	Mode: Basic Mode	e •	(?)) Resan	ple		-		
ffic Aggregate Vie reams > Detaile Ports asic Counters	w:Results 1 d Stream Results Change V Select Rx Ports: All Port: rors Basic Sequencing Ad	Result s vanced	View +	<ul> <li>Change</li> <li>Change</li> <li>Cing Histo</li> </ul>	Counter Igrams	Mode: Basic Mode	p pg 5 e •	(?)) Resan	ple				
ffic Aggregate Vie reams > Detaile Ports asic Counters E Name/ID ts	w:Results 1 d Stream Results Change V Select Rx Ports: All Port: rrors: Basic Sequencing Ad ) Rx L1 Count (bits) Tx L1 R	Result s vanced late (b)	View •	Change	Counter grams ps) T	Mode: Basic Mode	e •	() Resan	ple Count s)	Rx Si			
ffic Aggregate Vie reams > Detaile Ports ssic Counters E Name/ID ts 1/98304 (, Sreamfiler 2	wr.Results 1           d Stream Results         Change           • Select Rx Ports:         Al Port           rors:         Basic Sequencing         Ad           )         Rx L1 Count (bits)         Tx L1 R           g         g         ag         ag	Result s vanced late (bp 0,000,0	View - Sequen ps) Ro 56 56	Change Change Cing Histo x L1 Rate (b 3,066,614,17	Counter ograms ps) T 26 S	A         1 of 1           Mode:         Basic Mode           x Rate (fps)         Rx           4,459,459         50	e • • Rate (fps)	(?) Resan	ple Count 6) 34,434	Rx Si 50,40			
ffic Aggregate Vie reams > Detaile Ports ssic Counters E VMame/ID ts StreamBloc. 2 StreamBloc. 2	wr.Results 1           d Stream Results         Change           Select Rx Ports         Al Port           rors         Basic Sequencing         Ad           )         Rx L1 Count (bits)         Tx L1 R           1,533,006,067,9         100,00         0           6         0         0           6,431,103,370,3         20,000,00         20,000,00	Result s vanced tate (b; 0,000,04	View - Sequent ps) Ro 56 56 0 19 15	<ul> <li>Change</li> <li>Change</li> <li>Change</li> <li>Histor</li> <li>x L1 Rate (b</li> <li>3,066,614,1.1</li> <li>9,459,459,65</li> </ul>	grams ps) T 78 8 0 51 1	1 of 1           Mode:         Basic Mode           x Rate (fps)         Rx           4,459,459         50           6,891,892         16	Rate (tps)	Rx Sig ( (Frame: 1,330,7 0 5,582,5	ple Count \$) 74,434 55,009	Rx Si 50,40 0 16,85			
ffic Aggregate Vie reams > Detaile Ports ssic Counters El Name/ID ts 1/95/04 0. StreamBloc. 2 2/98305 3,	w:Results 1           d Stream Results         Change           Select Rx Ports:         All Port           rors:         Basic Sequencing         Ad           NRL1 Count (bits)         Tx L1 R           1,533,006,067,9         100,00           0         0         0           6,431,103,370,3         20,000,           7,541,961,306,	Result s vanced tate (b; 0,000,04 ,000,04	View - Sequen ps) Ro 156 56 0 18 15 17 58	Change cing Histo x L1 Rate (b 9,056,614,17 9,459,459,63 8,066,609,21	Counter grams ps) T 78 8 0 51 1 13 8	1 of 1           Mode:         Basic Mode           x Rate (fps)         Rx           4,459,459         50           6,891,892         16           4,459,459         50	e • (Rate (fps)) (,405,047 5,891,892 7,405,043	Rx Sig ( (Frame: 1,330,7 0 5,582,5 64,185,	ple Count \$) 74,434 55,009 730,301	Rx Si 50,40 0 16,85 50,46			
ffic Aggregate Vie reams > Detaile Ports asic Counters E Name/ID ts 1/98304 0 StreamBloc. 2 2/98305 3,	w:Results 1           d Stream Results         Change           Select Rx Ports:         All Porti           rors:         Basic Sequencing         Ad           NRL1 Count (bits)         Tx L1 R           1,533,005,067,9         100,00           0         6,431,103,370,3         20,000,           73,941,961,306,         99,999,	Result s vanced tate (b) 0,000,04 ,000,04	View - Sequeno ps) Ro 156 56 0 188 119 17 58	<ul> <li>Change</li> <li>Change</li> <li>Histo</li> <li>x L1 Rate (b</li> <li>0,066,614,12</li> <li>9,459,459,63</li> <li>8,066,609,21</li> </ul>	Counter Igrams ps) T 78 8 0 51 1 13 8	A         1 of 1           Mode:         Basic Mode           x Rate (fps)         RX           x/455/459         50           6,891,892         16           x/455/459         50	Rate (tps) 7,405,047 5,891,892 7,405,043	Rx Sig ( (Frame: 1,330,7 0 5,582,5 64,185,	iple Count 8) 34,434 55,009 730,301	Rx Si 50,40 0 16,85 50,46			
ffic Aggregate Vie reams > Detaile Ports asic Counters E Name/ID ts 1/98304 5 StreamBloc 2 2/98305 8,	w:Results 1           d Stream Results         Change           Select Rx Ports:         All Porti           rrors         Basic Sequencing         Ad           RxL1 Count (bits)         TxL1 R           4,533,005,067,9         100,00           0         0         0           6,431,103,370,3         20,000,           73,941,961,306,         99,999,	Result s vanced 0,000,04 ,000,04	View	Change Change K L1 Rate (b 9,055,614,12 9,459,459,61 8,066,609,21	Counter grams ps) T 78 8 0 51 1 13 8	A         1 of 1           Mode:         Basic Mode           x Rate (fps)         Rx           4,455,459         50           0         6,891,892           16         4,459,459	Rate (fps) 1,405,047 5,891,892 7,405,043	<ul> <li>Resan</li> <li>Rx Sig I (Frame: 1,330,7</li> <li>0</li> <li>5,582,5</li> <li>64,185,</li> </ul>	ple Count 6) 34,434 55,009 730,301	Rx Si 50,40 0 16,85 50,46			
flic Aggregate Vie reams > Detaile Ports asic Counters E Name/ID ts 1/98304 ( StreamBloc. 2 2/98305 8,	w:Results 1           d Stream Results         Change           Select Rx Ports:         All Port           rrors         Basic Sequencing         Ad           Rx L1 Count (bits)         Tx L1 R           d, 5.33,005,062,9         100,00           d         d, 4.31,103,370,3.         20,000,           73,941,961,306,         99,999,	Result s vanced late (bp 0,000,0 ,000,04 ,999,94	View - Sequen ps) Ro 156 56 0 188 15 157 58	Change Change Change Histor x L1 Rate (b 9,055,614,11 9,459,459,61 8,066,609,21	Counter Igrams ps) T 78 8 0 51 1 13 8 13	4         1 of 1           Mode:         Basic Mode           x Rate (fps)         Rx           y,455,459         0           6,891,892         16           y,455,459         50	e • (Rate (fps) 9,405,047 5,891,892 9,405,043	<ul> <li>Resan</li> <li>Rx Sig (Frame: 1,330,7</li> <li>0</li> <li>5,582,5</li> <li>64,185,</li> </ul>	pie Count 34,434 55,009 730,301	Rx Si 50,40 0 16,85 50,40			
fic Aggregate Vie reams > Detaile Ports asic Counters E Name/ID ts 1/98304 5 StreamBloc 2 2/98305 8 StreamBloc 2 2/98305 8	w:Results 1           d Stream Results         Change           Select Rx Ports:         All Porti           rrors         Basic Sequencing         Adl           Rx L1 Count (bits)         Tx L1 R           d, 533,006,062,9         106,00           d         d         d           d, 4,31,103,370,3         20,000,           r, 73,941,961,306,         99,999,	Result s vanced tate (b; 0,000,04 ,000,04	View - Sequen ps) Ro 56 56 0 18 11 17 58	Change Change King Histo x L1 Rate (b 3,056,614,11 9,459,459,61 9,459,459,61 8,066,609,21	Counter Igrams ps) T 78 8 0 51 1 13 8 13	4         1 of 1           Mode:         Basic Mode           x Rate (fps)         Rx           y,455,459         0           6,891,892         16           y,455,459         50	e • (Rate (fps) 9,405,047 5,891,892 9,405,043	(?) Resan Rx Sig ( (Frame: 1,330,7) 0 5,582,5 64,185, 1	pie Count 8) 74,434 55,009 730,301	Rx Si 50,40 0 16,85 50,40			
ffic Aggregate Vie reams > Detaile Ports scic Counters E Name/ID ts StreamBloc 2 2/98305 b StreamBloc 4 2/98305 b PASS	w:Results 1           d Stream Results         Change           Select Rx Pots:         All Potitrons           Rx L1 Count (bits)         Tx L1 R           1,533,006,067,9         100,00           0         0           6,431,103,370,3         20,000,           73,941,961,306,         99,999,	Result s vanced tate (b; 0,000,04	View - (Sequen ps) Ro 55 55 0 156 15 16 17 58 1 1 1 1 1 1 1 1 1 1 1 1 1	<ul> <li>Change</li> <li>Change</li> <li>Kisto</li> <li>x L1 Rate (b</li> <li>8,065,614,17</li> <li>9,459,459,64</li> <li>8,066,609,21</li> </ul>	Counter grams ps) T 78 8 0 51 1 13 8 13	4         1 of 1           Mode:         Basic Mode           x Rate (fps)         FX           4,459,459         50           6,891,892         16           4,459,459         50	e • (Rate (fps) 9,405,047 9,893,892 9,405,043	Resan	pie Count b) 34,434 55,009 730,301	Pac Si 50,40 0 16,85 50,40			
ffic Aggregate Vie reams > Detaile Ports ssic Counters Er Name/ID ts 2/98/304 2 StreamBloc 2 2/98/305 3, PASS	w:Results 1           d Stream Results         Change           Select Rx Ports:         Al Port           rors:         Basic Sequencing         Ad           j)         RxL1 Count (bits)         TxL1 R           1,533,006,067,9         100,00         0           6         0         0           6         0         0           6         431,103,370,3         20,000,           72,941,961,306,	Result s vanced dtate (b; 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,000,0 0,0000	Vlew - Sequences Sequences S5555 55555 55555 55555 55555 55555 75555 8 755 755	Change Change King Histo (1) Rate (b (2) 060,614,17 (2) 459,459,61 (3) 066,609,21 (3) 066,609,21 (3) 066,609,21 (4) 0	Counter Igrams ps) T 78 8 0 51 1 13 8 13 13 13 13 13 13 13 13 13 13	1 of 1           Mode:         Basic Mode           x Rate (fps)         FX           4,459,459         50           6,891,892         16           4,459,459         50	e • (Rate (fps) 1,405,047 5,891,892 2,405,043	#2         Resan           Rx Sig (Frame)         1,330,7           0         5,582,5           64,185,         1	pie Count 3) 34,434 55,009 730,301	Rx Si 50,40 0 16,85 50,46			
ffic Aggregate Vie reams > Detaile Ports asic Counters E Varie/ID ts Varie/ID	w:Results 1           d Stream Results         Change           Select Rx Ports:         All Port           rors:         Basic Sequencing         Ad           0)         RxL1 Count (bits)         TxL1 R           1,553,005,067,9         100,00         0           6,431,103,370,3         20,000,           7,7,941,961,306,         99,999,	Result s vanced (ate (bp 0,000,04 ,000,04 ,999,94	View	Change Change Ising Histo x L1 Rate (b 8,055,614,11 9,459,459,61 8,066,609,21	Counter pgs) T 78 8 0 51 1 13 8 13	4         1 of 1           Mode:         Basic Mode           x Rate (fps)         FR           4,459,459         50           6,891,892         16           4,459,459         50	e • (Rate (fps) 9,405,047 9,405,043	Image: Constraint of the second sec	pie Count 37,434 55,009 730,301	Rx Si 50,40 0 16,85 50,46			

#### 5.8 PFC Watchdog (WD)

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Test Content	The PFC watchdog of the testing equipment can work.
Test Topology	DUT1 1 2 3 C STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Map dot1p priority 3 to tc3 and pg3.</li> <li>Bind the QoS mapping to the port.</li> <li>Enable PFC priority 3 on DUTP1 and DUTP2.</li> <li>Create VLAN100 and add DUT P1-P3 as tagged members.</li> <li>Create pfc-priority-queue to map PFC priority 3 to queue3.</li> <li>Bind the created pfc-priority-queue to TGB (check1).</li> <li>TGA sends line-rate VLAN100 packets with priority 3 to TGB (check2).</li> <li>TGB sends PFC priority 3 packets.</li> <li>Enable PFC Watchdog (PFCWD) on the port.</li> </ol>
Expected Results	Check1: TGB stops receiving data packets from TGA. Check2: TGB starts receiving partial data packets from TGA.
Actual Test Results	QOS config qos dot1p-tc add dot1p_to_tc_profiledot1p 3tc 3 config interface qos dot1p-tc bind Ethernet0 dot1p_to_tc_profile config interface qos dot1p-tc bind Ethernet8 dot1p_to_tc_profile config qos tc-pg add tc-pg-proftc 3pg 3 config interface qos tc-pg bind Ethernet0 tc-pg-prof config interface qos tc-pg bind Ethernet16 tc-pg-prof config interface qos tc-pg bind Ethernet16 tc-pg-prof config interface qos tc-queue add tc-queue-proftc 3queue 3 config interface qos tc-queue bind Ethernet0 tc-queue-prof config interface qos tc-queue bind Ethernet16 tc-queue-prof config interface qos tc-queue bind Ethernet16 tc-queue-prof config interface qos tc-queue bind Ethernet0 tc-queue-prof



root@sonic:/home/admin# confi	g unterface pre propriority Etherneto 5 on
Interface Lossless prior	ities
Ethernet0	3 a interface of optionity Ethernet? 2 op
Totorface	g interface pro priority Ethernets 5 on
root@sonic:/home/admin#	3
vlan config vlan add 100	
config vlan member add 100 Ether	rnet0
config vlan member add 100 Ether	rnet8
config vlan member add 100 Ether	rnet16
pfc-priority-queue	
config qos pfc-priority-queue add	pfc_queue_profilepfc-priority 3queue 3
config interface qos pfc-priority-q	ueue bind Ethernet8 pfc_queue_profile
	TO WITH PROPERTY $\neq$ TO $[I = V]$ OF HEAD FOTO
TGB sends destination learning pa	ockets and PEC priority 3 packets
TGB sends vLAN 100 data packe TGB sends destination learning pa Port A	ickets and PFC priority 3 packets.
TGB sends VLAN 100 data packe TGB sends destination learning pa Port A	ickets and PFC priority 3 packets.
TGB sends VLAN 100 data packe TGB sends destination learning pa Port A Frame	ackets and PFC priority 3 packets.
TGB sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Preamble (hex)	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame EthernetII Preamble (hex) Destination MAC	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame EthernetII Preamble (hex) Destination MAC Source MAC	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Preamble (hex) Destination MAC Source MAC Vlans	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlans 	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlans Vlan Vlan	fb55555555555           00: 10:94:00:00:01           8100
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Frame Preamble (hex) Destination MAC Vlan Vlan Vlan Priority (bits)	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlans 	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlan Vlan CFI (bit) ID (int)	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlans Vlan Friority (bits) CFI (bit) ID (int) EtherType (hex)	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlan Vlan Vlan CFI (bit) ID (int) EtherType (hex) Frame	fb555555555555555555555555555555555555
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlans 	at with priority 3 to FGB at the fate.         ackets and PFC priority 3 packets.         fb555555555555555         00: 10:94:00:00:02         00: 10:94:00:00:01         8100         011         0         100 <auto> Internet IP         <auto> 4</auto></auto>
TGA sends VLAN 100 data packe TGB sends destination learning pa Port A Frame Frame Frame Frame Frame Frame Preamble (hex) Destination MAC Source MAC Vlan Vlan Vlan CFI (bit) ID (int) EtherType (hex) Version (int) Header length (int)	at with priority 3 to FGB at the fate.         ackets and PFC priority 3 packets.         fb555555555555555         00: 10:94:00:00:02         00: 10:94:00:00:01         8100         011         0         100 <auto> Internet IP         <auto> 4         <auto> 5</auto></auto></auto>



	num.	Value
	E Frame	
	EthernetII	
	Preamble (hex)	fb555555555555555555555555555555555555
	···· Destination MAC	01:80:C2:00:00:01
	Source MAC	00:10:94:00:00:02
	EtherType (hex)	<auto> 8808</auto>
	Priority Flow Control	
	···· OpCode (hex)	<auto> 0101</auto>
	Class Enable Vector	
	···· ms octet (bits)	0000000
	ls octet (bits)	00001000
	Time (0) (int)	0
	Time (1) (int)	0
	Time (2) (int)	0
	Time (3) (int)	65535
	config pfcwd startaction forwa detection-time 4000	
Test results	PASS	
Remarks		

#### 5.9 PFC Watermark (WM)

Test Items	PFC Watetmark Functional Test
Test Content	The PFC watermark of the testing equipment can be displayed according to statistics.



	DUT1
Test Topology	A STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Load the QoS configuration file.</li> <li>Configure buffer parameters and bind them to the port.</li> <li>Map DSCP 3 to tc3 and pg3; map DSCP 0 to tc0 and pg0.</li> <li>Bind the QoS mapping to the port.</li> <li>Create a pfc-priority-queue to map PFC priority 3 to queue3 and PFC priority 0 to queue0.</li> <li>Bind the created pfc-priority-queue to the port.</li> <li>Enable PFC priorities 3 and 0 on the port.</li> <li>Create VLAN 100 and add ports to VLAN 100 , check1.</li> <li>TGA sends line-rate DSCP 3 and DSCP 0 data packets of 1230 bytes to TGB.</li> <li>Check the watermark statistics.</li> <li>Rate limit the egress of TGB to 10G.</li> <li>Check the watermark statistics again , check2.</li> <li>Delete the relevant configurations.</li> </ol>
Expected Results	Check1: Configuration is successful. Check2: View the statistics.
Actual Test Results	QOS sudo config qos reload config interface buffer bind priority-group Ethernet0 0 ingress_lossless_profile config interface buffer bind queue Ethernet0 0 egress_lossless_profile config interface buffer bind queue Ethernet2 0 egress_lossless_profile config interface buffer bind priority-group Ethernet0 3 ingress_lossless_profile config interface buffer bind priority-group Ethernet0 3 ingress_lossless_profile config interface buffer bind priority-group Ethernet2 3 ingress_lossless_profile config interface buffer bind queue Ethernet0 3 egress_lossless_profile config interface buffer bind queue Ethernet2 3 egress_lossless_profile config interface buffer bind queue Ethernet2 3 egress_lossless_profile config qos dscp-tc add dscp_to_tc_profiledscp 3tc 3 config qos dscp-tc update dscp_to_tc_profiledscp 0tc 0 config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile config qos tc-pg add tc-pg-proftc 3pg 3 config qos tc-pg update tc-pg-proftc 0pg 0 config interface qos tc-pg bind Ethernet0 tc-pg-prof config interface qos tc-pg bind Ethernet0 tc-pg-prof config qos tc-queue add tc-queue-proftc 3queue 3 config qos tc-queue update tc-queue-proftc 0queue 0 config interface qos tc-queue bind Ethernet0 tc-queue-prof





config interface qos tc-queue bind Eth	ernet2 tc-queue-prof
pfc-priority-queue config qos pfc-priority-queue add pfc_ config qos pfc-priority-queue update p config interface qos pfc-priority-queue config interface qos pfc-priority-queue	_queue_profilepfc-priority 3queue 3 ofc_queue_profilepfc-priority 0queue 0 e bind Ethernet0 pfc_queue_profile e bind Ethernet2 pfc_queue_profile
config interface pfc priority Ethernet0 config interface pfc priority Ethernet0 config interface pfc priority Ethernet2 config interface pfc priority Ethernet2	3 on 0 on 3 on 0 on
vlan config vlan add 100 config vlan member add 100 Ethernet config vlan member add 100 Ethernet	0 -u 2 -u
TGB sends MAC learning packets, ar DSCP 0. Port A	nd TGA sends line-rate packets with DSCP 3 and
EthernetII	
Preamble (hex)	fb555555555555555555555555555555555555
···· Destination MAC	00:10:94:00:00:02
Source MAC	00:10:94:00:00:01
EtherType (hex)	<auto> Internet IP</auto>
- IPv4 Header	
···· Version (int)	<auto> 4</auto>
Header length (int)	<auto> 5</auto>
ToS/DiffServ	tos (0x0C)
Total Custom Editor	×
Iden Quality of Service	
- Cont	Differry
R Value	
C (Hex) (Dec) (B	inary) v
0C 12 0	0001100
5 55 55 D5	
1 02 C0 00 Precedence	Delay



Source MAC	00:10:94:00:00:01	
EtherType (hev)		
TPv4 Header	Cauto > Internet IP	
Version (int)	<auto>4</auto>	
Header length (int)	<auto> 5</auto>	
ToS/DiffServ	tos (0x00)	
Total length (int)	<auto> calculated</auto>	
Identification (int)	0	
e- Control Flags		
···· Reserved (bit)	0	
DF Bit (bit)	0	
Preamble (hex)	fb555555555555555555555555555555555555	
EthernetII		
Preamble (hex)	fb555555555555555555555555555555555555	
Destination MAC	00:10:94:00:00:01	
Source MAC	00:10:94:00:00:02	
EtherType (hey)	<auto> Internet IP</auto>	
Euler Type (ilex)		
IPv4 Header		
IPv4 Header     Version (int)	<auto> 4</auto>	
IPv4 Header     Version (int)     Header length (int)	<auto> 4 <auto> 5</auto></auto>	
IPv4 Header     Version (int)     Header length (int)     ToS/DiffServ	<auto> 4 <auto> 5 tos (0x00)</auto></auto>	
Euler type (tick)     IPv4 Header     Version (int)     Header length (int)     ToS/DiffServ     Total length (int)	<auto> 4 <auto> 5 tos (0x00) <auto> calculated</auto></auto></auto>	
IPv4 Header      Version (int)      Header length (int)      ToS/DiffServ      Total length (int)      Identification (int)	<auto> 4 <auto> 5 tos (0x00) <auto> calculated 0</auto></auto></auto>	
IPv4 Header     Version (int)     Header length (int)     ToS/DiffServ     Total length (int)     Identification (int)     Control Flags	<auto> 4 <auto> 5 tos (0x00) <auto> calculated 0</auto></auto></auto>	
Euler type (tick)     IPv4 Header     Version (int)     Header length (int)     ToS/DiffServ     Total length (int)     Identification (int)     Control Flags     Reserved (bit)	<auto> 4 <auto> 5 tos (0x00) <auto> calculated 0 0</auto></auto></auto>	





Test results	PASS
Remarks	
5.10 Scheduling	
Test Items	Scheduling Functional Test
Test Content	The testing equipment forwards packets according to QoS Scheduling.
Test Topology	DUT1 1 2 3 C STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Map DSCP3 to tc3 and pg3, and map DSCP0 to tc0 and pg0.</li> <li>Bind the QoS mapping to the port.</li> <li>Configure schedulers wrr60 and wrr40, and bind them to queue0 and queue3 of DUTP3.</li> <li>Create VLAN100, add DUT P1-P3 to VLAN100 as tagged members (check1).</li> <li>TGC sends learning packets.</li> <li>TGA is set to send DSCP0 packets with a length of 1230 at line rate to TGC;</li> <li>TGA and TGB send packets simultaneously, check the ratio of packets received by TGC from TGA and TGB (check2).</li> <li>Stop packet transmission on all ports.</li> </ol>
Expected Results	Check1: Configuration is successful. Check2: The DSCP packets received by TGC from TGA and TGB conform to the WRR ratio.
Actual Test Results	qos config qos dscp-tc add dscp_to_tc_profiledscp 3tc 3 config qos dscp-tc update dscp_to_tc_profiledscp 0tc 0 config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile config interface qos dscp-tc bind Ethernet8 dscp_to_tc_profile config interface qos dscp-tc bind Ethernet16 dscp_to_tc_profile config qos tc-pg add tc-pg-proftc 3pg 3 config qos tc-pg update tc-pg-proftc 0pg 0 config interface qos tc-pg bind Ethernet0 tc-pg-prof config interface qos tc-pg bind Ethernet8 tc-pg-prof config interface qos tc-pg bind Ethernet16 tc-pg-prof config interface qos tc-pg bind Ethernet16 tc-pg-prof config interface qos tc-pg bind Ethernet16 tc-pg-prof



config qos tc-qu	ieue update tc-qi	ueue-prottc 0qi	ueue 0		
config interface	qos tc-queue bi	nd Ethernet0 tc-que	ue-prof		
config interface	qos tc-queue bi	nd Ethernet8 tc-que	ue-prof		
config interface	qos tc-queue bi	nd Ethernet16 tc-qu	ieue-prof		
scheduler					
config schedule	r add sched-prof	-wrr60sched_typ	e WRRwe	eight 60	
config schedule	r add sched-prof	-wrr40sched_typ	e WRRwe	eight 40	
config interface	scheduler bind	queue Ethernet16 0	sched-prof-	wrr60	
config interface	scheduler bind	queue Ethernet16 3	sched-prof-	wrr40	
vlan	100				
config vlan add	100				
config vlan men	nber add 100 Et	hernet0 -u			
config vlan men	nber add 100 Et	hernet8 -u			
	nber add 100 Ef	hernet16 -u			
coming vian men					
	. 1 .				
TGC sends learn	ning packets.				
TGC sends learn The packet rece	ning packets.	GC for DSCP 0 (fi	rom TGA) a	and DSCP 3 (from	m TC
TGC sends learn The packet rece are measured w	ning packets. eption rates at T hen TGA and T	GC for DSCP 0 (fi GB send simultaned	rom TGA) a busly.	nd DSCP 3 (fror	m TC
TGC sends learn The packet rece are measured with The port received	ning packets. eption rates at T hen TGA and T es DSCP 0 and I	GC for DSCP 0 (fi GB send simultaned DSCP 3 packets at a	rom TGA) a ously. a rate ratio of	nd DSCP 3 (fror f 3:2.	m TC
TGC sends learn The packet rece are measured with The port received Name/ID	ning packets. eption rates at T hen TGA and T es DSCP 0 and I Late Count (Frames)	GC for DSCP 0 (fi GB send simultaned DSCP 3 packets at a Dropped Rate (fps)	rom TGA) a ously. a rate ratio of Dropped Frame Perce	and DSCP 3 (from f 3:2. In-order Rate (fps)	m TC
TGC sends learn The packet rece are measured with The port received Name/ID	ning packets. eption rates at T hen TGA and TO es DSCP 0 and I Late Count (Frames)	GC for DSCP 0 (fi GB send simultanec DSCP 3 packets at a Dropped Rate (fps)	rom TGA) a pusly. a rate ratio of Dropped Frame Perce 0	nd DSCP 3 (from f 3:2. In-order Rate (fps)	m TC
TGC sends learn The packet rece are measured with The port received Name/ID t StreamBlock	ning packets. eption rates at T hen TGA and To es DSCP 0 and I Late Count (Frames) 0 0	GC for DSCP 0 (fi GB send simultaneo DSCP 3 packets at a Dropped Rate (fps) 0 0	rom TGA) a pusly. a rate ratio of propped Frame Perce 0 0	Ind DSCP 3 (from f 3:2. In-order Rate (fps) 0 31,581,791	m TC
TGC sends learn The packet rece are measured wi The port receive Name/ID t StreamBlock StreamBlock	ning packets. eption rates at T hen TGA and To es DSCP 0 and I Late Count (Frames) 0 0 0	GC for DSCP 0 (fr GB send simultaneo DSCP 3 packets at a Dropped Rate (fps) 0 0 0	rom TGA) a pusly. a rate ratio of propped Frame Perce 0 0 0	and DSCP 3 (from f 3:2. In-order Rate (fps) 0 31,581,791 0	m TC
TGC sends learn The packet rece are measured with The port received Name/ID StreamBlock	ning packets. eption rates at T hen TGA and T es DSCP 0 and I Late Count (Frames) 0 0 0 0	GC for DSCP 0 (fi GB send simultaneo DSCP 3 packets at a Dropped Rate (fps) 0 0 0 0	rom TGA) a pusly. a rate ratio of Dropped Frame Perce 0 0 0	and DSCP 3 (from f 3:2. In-order Rate (fps) 0 31,581,791 0 20,091,821	m TC
TGC sends learn The packet rece are measured with The port received Name/ID StreamBlock StreamBlock	ning packets. eption rates at T hen TGA and T es DSCP 0 and I Late Count (Frames) 0 0 0 0 0	GC for DSCP 0 (fi GB send simultaneo DSCP 3 packets at a Dropped Rate (fps) 0 0 0 28,441,934	rom TGA) a pusly. a rate ratio of Propped Frame Perce 0 0 0 0 0 0 67.35	and DSCP 3 (from f 3:2. In-order Rate (fps) 0 31,581,791 0 20,091,821 13,787,794	m TC

# 5.11 Egress Shaping (Port, Queue)

Test Items	Egress Shaping Functional Test
Test Content	The testing equipment forwards packets according to the set Egress shaping value.
Test Topology	DUTI 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Map DSCP3 to tc3 and pg3, and map DSCP0 to tc0 and pg0.</li> <li>Bind the QoS mapping to the port.</li> <li>Set the port bandwidth of DUTP2 to 10G and the bandwidth of queue0 to 1G.</li> <li>Create VLAN2, add DUT P1-P2 to VLAN2 as tagged members (check1).</li> </ol>

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	<ol> <li>TGB sends learning packets.</li> <li>TGA is set to send DSCP0 packets with a length of 1230 at line rate to TGB, and check the packet reception rate (check2).</li> <li>TGA is set to send DSCP3 packets with a length of 1230 at line rate to TGB, and check the packet reception rate (check3).</li> <li>Stop packet transmission on all ports.</li> </ol>
Expected	Check1: Configuration is successful. Check2: The rate of DSCP0 packets received by TGB is 1G.
Results	Check3: The rate of DSCP3 packets received by TGB is 10G.
Actual Test Results	qos config qos dsep-te add dsep_to_tc_profiledsep 3te 3 config qos dsep-te update dsep_to_tc_profiledsep 0te 0 config interface qos dsep-te bind Ethernet0 dsep_to_tc_profile config interface qos dsep-te bind Ethernet8 dsep_to_tc_profile config qos tc-pg add tc-pg-profte 3pg 3 config qos tc-pg update tc-pg-profte 0pg 0 












Data Fa	th Mode					Clock	Source						
Norn	nal					() In	ternal						
O Diagnostic Loopback						Internal w/PPM Adjustment							
0						P	PM Adju	stment	-20	-			
I I I I I I I I I I I I I I I I I I I	Irano Anayze     Capture     Capture     Capture     Devices     Traffic Analyze     Traffic Analyze     Traffic Analyze     Capture     ort //3/37 (00:01:)     gs	r 15:01:04:60/EH:3/2 r A6:67:4F:82/400gr A6:67:4F:82/400gr	tipe	ng Stream Blod	TG8	tal Stream B	Cid Cid ocke: 1   Se	iected 1 of 1			P		generator
Port Traffic an	d Counters > Ba	isic Traffic Result	ts   Change	Result View -	36	6-14-4	Tof I	D 04			2		
Port Traffic an Basic Counters	Counters > Ba Errors Trigger Total Tx Count	rsic Traffic Result rs Protocols Un Total Rx Count	ts   Change dersize/Over	Result View - rsize/Jumbo	PFC Counte	No Maria Maria Maria Maria Mari	fined Adva	Percent)	ncing FEC	Counters	Total Tx Ra	ate (bos)	Total Bx Bate (bos
Port Traffic an Basic Counters Port Name	d Counters > Ba Errors   Trigger Total Tx Count (Frames)	rs Protocols Un Total Rx Count (Frames)	ts   Change dersize/Over Total Tx C	Result View - rsize/Jumbo Count (bits)	PFC Counte TX L1 Rate	s User De Percent)	Tof T efined Adva Rx L1 Rate (	P P nced Sequer (Percent)	ncing   FEC Total Rx Co	Counters unt (bits)	Total Tx Ra	ate (bps)	Total Rx Rate (bps
Port Traffic an Basic Counters Port Name Port //4/1 Port //4/2	d Counters > Ba Errors   Trigger Total Tx Count (Frames) 0 1,850,174,520	ISIC Traffic Result ISI Protocols Un Total Rx Count (Frames) 3 3	ts   Change dersize/Over Total Tx C 0 28,205,71	Result View - rsize/Jumbo Count (bits)	PFC Counte TX L1 Rate 0 99.990	s User De Percent)	fined Adva Rx L1 Rate I 0	Percent)	ncing   FEC Total Rx Co <i>10,344</i> <i>10,344</i>	Counters unt (bits)	Total Tx Ra 0 196,796,065	ate (bps) 15,260	Total Rx Rate (bps 0 0
Port Traffic an Basic Counters Port Name Port //4/1. Port //4/2 Port //1/3	d Counters > Ba Errors Trigger Total Tx Count (Frames) 0 1,450,174,520 0	isic Traffic Result is Protocols Un Total Rx Count (Frames) J J 3	ts   Change dersize/Over Total Tx 0 38,205,73 0	Result View - rsize/Jumbo Count (bits) 17,276,800	2 6 10 10 10 10 10 10 10 10 10 10 10 10 10	s User De Percent)	Fined Adva Rix L1 Rate ( 0 0	Percent)	ncing FEC Total Rx Co 10,344 10,344 5,712	Counters unt (bits)	Total Tx Ra 0 196,796,060	ate (bps) 15,260	Total Rx Rate (bps 0 0 0
Port Traffic an Basic Counters Port Name Port //4/1. Port //4/2 Port //1/3. Port //1/4	d Counters > Ba Errors Trigger Total Tx Count (Frames) 0 1,850,174,520 0 0 0	isic Traffic Result is Protocols Un Total Rx Count (Frames) 3 3 3 3 3	ts   Change dersize/Over Total Tx C 0 18,205,71 0 0	Result View - rsize/Jumbo Count (bits) 17,276,800	2 6 PFC Counte Tx L1 Rate 99,990 0 0	s User De Percent)	Fined Adva Rix L1 Rate I 0 0 0 0	Percent)	ncing FEC Total Rx Co 10,344 10,344 5,712 5,712	Counters unt (bits)	Total Tx Ra 0 196,796,06: 0 0	ate (bps) 15,260	Total Rx Rate (bps 0 0 0 0
Port Traffic an Basic Counters Port Name Port //4/1. Port //4/2 Port //1/4 Port //1/4 Port //1/4	d Counters > Ba Errors Trigger Total Tx Count (Frames) 0 1,850,174,520 0 0 0 0 0 0 0 0 0	Insic Traffic Result Insi Protocols Uni Total Rx Count (Frames) 3 3 3 3 3 how mac	ts   Change dersize/Over Total Tx 0 18,205,71 0 0	Result View + rsize/Jumbo Count (bits)	PFC Counte Tx L1 Rate 99.998 0 0	s User De Percent)	fined Adva Rx L1 Rate ( 0 0 0 0	Percent)	ncing FEC Total Rx Co 10,344 10,344 5,712 5,712	Counters unt (bits)	Total Tx Ra 0 196,796,06 0 0	ate (bps) 15,260	Total Rx Rate (bps 0 0 0 0
Port Traffic an Basic Counters Port Name Port //4/1. Port //1/3. Port //1/3. Port //1/4.	d Counters > Ba Errors Trigger Total Tx Count (Frameo) 0 1 1,450,1274,520 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Isic Traffic Result rs Protocols Un Total Rx Count (Frames) 3 3 3 3 how mac Mac Address	ts   Change dersize/Over Total Tx C 38,205,71 0 0	Result View + rsize/Jumbo count (bits) 17,276,800 Port	PFC Counte TX L1 Rate 99.990 0 0	s User De Percent)	Tof T fined Advs Rix L1 Rate I 0 0 0	Percent)	ncing FEC Total Rx Co 10,344 5,712 5,712	Counters unt (bits)	Total Tx Ra 0 196,796,06 0 0	ate (bps) 15,260	Total Rx Rate (bps 0 0 0 0
Port Traffic and Basic Counters Port J/4/L. Port J/4/L. Port J/1/2 Port J/1/3 Port J/1/3 Port J/1/4 Port J/1/4 Port J/1/4 Notes	d Counters > Ba Errors Trigger Total Tx Count (Frame) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	sic Traffic Result rs Protocols Un Total Rx Count (Frames) 3 3 3 3 4 5 3 3 4 5 3 5 5 5 5 5 6 6 8 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6	ts   Change dersize/Over 0 18,205,71 0 0 7 7 : 4F : 83	Result View - rsize(Jumbo Count (bits) 7,276,000 Port  Ethern	2 6 0 FFC Counter Tx L1 Rate 0 99,990 0 0 0 0 0 0 0 0 0 0 0 0 0	Type	Tof1 Fined Adve Rx L1 Rate I 0 0 0 0 0	Percent)	ncing FEC Total Rx Co 10,344 10,344 5,712 5,712	Counters unt (bits)	Total Tx Ra 0 196,796,060 0 0	ate (bps) 15,160	Total Rx Rate (bps 0 0 0
Port Traffic an Basic Counters Port Name Port //4/2 Port //1/3 Port //1/3 Port //1/4 Toot@s No. Total Total Cot@s No.	d Counters > Ba Errors Trigger Total Tx Count (Frames) d d d d d d d d d d d d d d d d d d d	How mac MacAddress	Is Change dersize/Diver 7 total Tx 0 9 38/205/72 0 0 7 : 4F : 83	Result Vew - rsize/Jumbo Count (bits) 17,276,000 Port Ethern Port	2 6 F	Type Type	Tof1 efined Advs Rx L1 Rate I 0 0 0 0 0	Percent)	ncing FEC 10,344 20,344 5,712 5,712	Counters unt (bits)	Total Tx Ra 0 196,796,06 0 0	ate (bps) 15,160	Total Rx Rate (bps 0 0 0 0



Frames	Name	Value
Create new Frame >	E Frame	
Save Frame as	EthernetII	
Template	Preamble (hex)	fb555555555555555555555555555555555555
Templates	Destination MAC	00:00:01:00:00:01
Actions	Source MAC	00:10:94:00:00:02
Actions	EtherType (hex)	<auto> Internet IP</auto>
Link Modifiers/VFDs	- IPv4 Header	
Generate Error	···· Version (int)	<auto> 4</auto>
1.1	Header length (int)	<auto> 5</auto>
Others	ToS/DiffServ	tos (0x00)
Expand All	- Total length (int)	<auto> calculated</auto>
Collapse All	Identification (int)	0
	- Control Flags	
	···· Reserved (bit)	0
	···· DF Bit (bit)	0
	MF Bit (bit)	0
	Fragment Offset (int)	0
	··· Time to live (int)	255
Hex Editor		
0010         FB         S5         S5         S5           0010         94         00         00         00           0020         39         94         C0         S5           (端口为2006端口, 故速率为0.56         (端口为2006端口, 故速率为0.56         No         S6         S5           (端口为2006端口, 故速率か0.66         (小の)         0.61         No         S6         S5	5 55 55 55 55 55 00 00 01 00 00 01 2 08 00 45 00 00 14 00 00 00 00 5 01 02 C0 00 00 01 5): 10 8 800 4 4 4 5 2 3 00 box 600 8 box 60. 8 box 60. 8 box 60 - 8 box 6	9 . й0
Servit Tatleter         Build Service           Statement Service         Internet Service	• • • • • • • • • • • • • • • • • • •	33 ad 2344/ang Bath Sty ad 2344/ang Bath Sty PO 2440 Ang Bath S













	routhania:
	root@sonic:~# config interface scheduler unbind port Ethernet18
	root@sonic:~# config interface scheduler unbind gueue Ethernet18 0
	root@sonic:~#
	root@sonic:~# config scheduler del profile-1
	root@sonic:~ <mark># config</mark> scheduler del profile-2
	root@sonic:~#
	root@sonic:~#_show interfaces scheduler
	root@sonic:~#
	root@sonic:~# config interface qos tc-queue unbind Ethernet16
	root@sonic:~# config interface qos tc-queue unbind Ethernet18
	root@sonic:~#
	root@sonic:~# config interface qos tc-pg unbind Ethernet16
	root@sonic:~# config interface qos tc-pg unbind Ethernet18
	root@sonic:~#
	root@sonic:~# config interface qos dscp-tc unbind Ethernet16
	root@sonic:~# config interface qos dscp-tc unbind Ethernet18
	root@sonic.ed
	root@sonic:~# config qos tc-queue del tc-queue-prof
	rootesonic:~#
	rootesonic
	rootesonic.~# config as dscn-tc del dscn to tc profile
	root@sonic:~#
	root@sonic:~∰ show qos dscp-tc
	root@sonic:~#
	root@sonic:~# show qos tc-pg
	root@sonic:~#
	root#sonic:~# snow qos tc-queue
	rootesonic:
	root@sonic:~= config vian member del 2 Ethernet18 root@sonic:~= config vian member del 2 Ethernet18
	root@sonic:~#
	root@sonic:vii config vlan del 2 root@sonic:vii
	Footsacht- ************************************
	VINITE TR Address Ports Port Brown NHP Halass Providence
	Tagging ARP Address
	Too Ethernetario untagged disabled Source Interface.
	Server Vrf:
	server ib overrade:
	DAGG
I est results	rass
Remarks	
1	

### 5.12 WRED

Test Items	WRED Functional Test
Test Content	The testing equipment can forward packets according to the WRED (Weighted Random Early Detection) settings.
Test Topology	DUTI 1 2 A STC B



Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Configure two WRED profiles.</li> <li>Bind the WRED profiles to egress port Queue 0 and Queue 3 respectively.</li> <li>Configure a QOS profile, bind it to the port, and map DSCP 0 to Queue 0 and DSCP 3 to Queue 3.</li> <li>Configure egress rate limiting to 10G.</li> <li>Create VLAN 100 and add DUT P1 and DUT P2 to VLAN 100 as untagged members.</li> <li>TGA sends line rate packets to TGB for 10 seconds, and check the packet loss ratio</li> </ol>
	received by TGB (check1). 9, delete the WRED configuration, repeat step 8, and check the packets received by TGB (check2).
Expected Results	Check1: WRED works as configured. Check2: No WRED behavior.
Actual Test Results	QOS         sudo config qos reload         config interface buffer bind priority-group Ethernet0 0 ingress_lossless_profile         config interface buffer bind queue Ethernet0 0 egress_lossless_profile         config interface buffer bind queue Ethernet0 0 egress_lossless_profile         config interface buffer bind queue Ethernet0 3 ingress_lossless_profile         config interface buffer bind priority-group Ethernet0 3 ingress_lossless_profile         config interface buffer bind queue Ethernet0 3 egress_lossless_profile         config interface buffer bind queue Ethernet0 3 egress_lossless_profile         config qos dscp-tc add dscp_to_tc_profiledscp 0tc 0         config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile         config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile         config qos to-gu add tc_to_pg_profiletc 0pg 0         config qos tc-gu add tc_to_pg_profiletc 0pg 0         config interface qos tc-pg bind Ethernet0 tc_to_pg_profile         config qos tc-queue add tc_to_queue_profiletc 0queu 0         config qos tc-queue ddte tc_to_queue_profiletc 0queu 0         config qos tc-queue bind Ethernet8 tc_to_queue_profile         config interface qos tc-queue bind Ethernet8 tc_to_queue_profile



root@son Profile:	ic:/home/ wred-pro	admin# show wred f	d		
Color	Mode	Min Threshold	Max Threshold	Drop Probability	
Green Yellow Red	WRED	0	133168898	100	
Profile: Color	wred-pro Mode	f-high Min Threshold	Max Threshold	Drop Probability	
Green Yellow Red	WRED	Θ	133168898	10	
root@son root@son Ethernet8 Queue: 0 ECN/WRED: Color	ic;/lome/a ic:/home/a wred-pro Mode	admin# dmin# show inter1 f Min Threshold	faces wred Max Threshold I	Drop Probability	
Green Yellow Red	WRED	0	133168898	100	
Ethernet8 Queue: 3 ECN/WRED: Color	3 wred-pro Mode	f-high Min Threshold	Max Threshold I	Drop Probability	
Green Yellow Red	WRED	0	133168898	10	
Configur	e eoress r	ate limiting to 1	0G		
config sc config in	heduler a terface sc	dd profile-1sh heduler bind por	aper_type=bytes - rt Ethernet8 profile	-bandwidth=10g -1	
Configur config vl config vl config vl	e vlan an add 10 an membo an membo	0 er add 100 Ether er add 100 Ether	met0 -u met8 -u		
TGB cor rate of 10 port A	ntinuously ).002 Gb.	sends MAC le	arning packets, an	nd TGA sends packe	ets to TGB at a



E Frame			
···· Preamble (he)	()	fb555555555555555555555555555555555555	
···· Destination M	AC	00:10:94:00:00:02	
···· Source MAC		00:10:94:00:00:01	
EtherType (he	ex)	<auto> Internet IP</auto>	
- IPv4 Header			
···· Version (int)		<auto> 4</auto>	
···· Header length	(int)	<auto> 5</auto>	
···· ToS/DiffServ		tos (0x00)	
···· Total length (i	nt)	<auto> calculated</auto>	
···· Identification	(int)	0	
- Control Flags			
Reserved	(bit)	0	
DF Bit (bit	)	0	
General Frame (	Groups Rx Port	Preview	
	ctive Name:	StreamBlock 41	
Frame size (Byte	s)(With CRC and si	gnature field)	Streamble
(C) Fact	5°		Loa
Fixed	Size: 1230		De De
◯ Incremen	t Step: 1	(power of 2)	() Pt
ODecremen	nt Min: 128		⊖ Fr
() Random	Max: 256	<u>.</u>	
() Auto	Avg: 192		
⊖ iMIX	Default	~ Edit	⊖ In





🖃 Frame					
Eth	ernetII				
	Preamble (hex)		fb55	5555555555d5	
	Destination MAC		00:1	0:94:00:00:02	
	Source MAC		00:1	0:94:00:00:01	
L	EtherType (hex)		<au< td=""><td>to &gt; Internet IP</td><td></td></au<>	to > Internet IP	
E- IPv	4 Header				
···· 1	Version (int)		<au< td=""><td>to &gt; 4</td><td></td></au<>	to > 4	
[	Header length (ir	nt)	<au< td=""><td>to &gt; 5</td><td>_</td></au<>	to > 5	_
	ToS/DiffServ		tos (	(0x0C)	
55 55 55 8 00 45 1 02 C0 General	Value (Hex) OC Preceden Frame Grou	(Dec) (B 12 00 ce ps Rx Port	DiffServ nary) 1001100 Preview	© ToS Delay	
	Activ	e Name	: Stream	mBlock 42	
Fram	e size (Bytes)(V	With CRC and	signature	e field)	Streamblog
	) Fixed	Size: 12	30		Load
	) Increment	Step: 1		(power of 2)	Per
	Decrement	Mine 12			O Era
(	Decrement		1.00		Oria
	Decrement	Mana DE	Ŷ		) Inte



	00170000
() Percent (%) :	0.00179996
O Frame/sec (fps) : 1(	000179
O bps : 10	0001799960
○ Kbps : 10	0001799.96
Mbps: 10	0002
O Inter burst gap (bytes) : 1	1259
O L2 Rate (bps): 90	341761360
Advanced Interleaving Group ID will be set in the stream block grid. Inter Frame Port B	Gap Unit: bytes Advanced Port Load
EthernetT	
Preamble (bex)	fb555555555555555555555555555555555555
- Destination MAC	00:10:94:00:00:01
Source MAC	00:10:94:00:00:02
EtherType (hex)	<auto> Internet IP</auto>
⊟ IPv4 Header	
··· Version (int)	<auto> 4</auto>
Header length (int)	<auto> 5</auto>
···· ToS/DiffServ	tos (0x00)
Total length (int)	<auto> calculated</auto>
Control Elaco	U
Reserved (hit)	0



StreamB StreamB	oc Port //1/29 ioc Port //1/29 ioc Port //1/29	Port //1/33 Port //1/33 Port //1/29	619,004,684 619,004,717 3,000	619,008,105 604,717,959 3,000	1,719,016 16,009,084 0	0.276 2.579 0.000	619,008,105 604,717,959 3,000	0 0 0
StreamB     StreamB     Control	Port //1/29 oc Port //1/29	Port //1/33 Port //1/29	619,004,717 3,000	604,717,959 3,000	16,009,084 0	2.579 0.000	604,717,959 3,000	0
stream5	oc Port //1/33	Port //1/29	3,000	3,000	0	0.000	3,000	0
Remo						·	J	
Remo								
Remo								
Remo								
Remo							激活 Windows	
Remo							· · · · · · · · · · · · · · · · · · ·	Indows
Remo								
ed Sec	uencing	His	togram	5				_
Tx (Fr	Count ames)		Rx Co (Fran	ount nes)	Dr (Fr	opped Cou ames)	nt	0
29,	988,092		29,90	88,092	0			-
29,	988,092		29,90	88,092	0			
1,0	82,029,5	76	0		0			

### 5.13 ECN

Test Items	ECN Functional Test
Test Content	The testing equipment can forward packets according to the ECN (Explicit Congestion
	Notification) settings.
Test Topology	DUT1 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment according to the diagram.</li> <li>Create VLAN 100 and add DUT P1 and DUT P2 to VLAN 100 as untagged members.</li> <li>Configure a WRED profile and bind it to the port , check1.</li> </ol>



	4、Check the ECN configuration.
	5、Configure a QoS profile, bind it to the port, and map DSCP 0 to Queue 0 , check2.
	6、Set the egress rate limit to 10G ,check3.
	7、TGB continuously sends MAC learning packets.
	8、TGA sends IPv4 packets with ECN 0x01 at line rate.
	9、Capture packets at TGB for inspection ,check4.
	10、 TGA sends IPv4 packets with ECN 0x02 at line rate.
	11、Capture packets at TGB for inspection ,check5.
	12、TGA sends IPv6 packets with ECN 0x01 at line rate.
	13、Capture packets at TGB for inspection.
	14、TGA sends IPv6 packets with ECN 0x02 at line rate.
	15、Capture packets at TGB for inspection.
	Check1: Configuration is successful.
<b>D</b> 1	Check2: No packet loss in packet forwarding.
Expected	Check3: Packet loss occurs according to WRED settings.
Results	
	Check4: ECN captured by TGB is 3.
	Check5: ECN captured by TGB is 3.
	Configure VLAN
	config vlan add 100 config vlan member add 100 Ethernet0 -u
	config vlan member add 100 Ethernet8 -u
	config wred add wred-profmode ecngmin 100000gmax 800000gdrop 100 config interface wred bind queue Ethernet0 0 wred-prof config interface wred bind queue Ethernet8 0 wred-prof
	show ecn
Actual Test Results	Configure a QoS profile, bind it to the port, and map DSCP 0 to Queue 0. config qos dscp-tc add dscp_to_tc_profiledscp 0tc 0 config interface qos dscp-tc bind Ethernet0 dscp_to_tc_profile config interface qos dscp-tc bind Ethernet8 dscp_to_tc_profile config qos tc-pg add tc_to_pg_profiletc 0pg 0 config interface qos tc-pg bind Ethernet0 tc_to_pg_profile config interface qos tc-pg bind Ethernet8 tc_to_pg_profile config qos tc-queue add tc_to_queue_profiletc 0queue 0 config interface qos tc-queue bind Ethernet0 tc_to_queue_profile



Ba	niig interia	ce schedul	er bind port		C°1 1		
Da	nie Countras F			Ethernet8 j	prome-1		
	Tx Port Name	Rx Port Names	Stream Block	Tx Count (Frames)	Rx Count (Frames)	Tx Rate (fps)	Rx Rat
Þ	Port //1/25	Port //1/29	StreamBlock 42	0	0	0	0
	Port //1/25	Port //1/29	StreamBlock 41	475,716,648	48,459,432	0	0
	Port //1/29		pfc-3	0	0	0	0
	Port //1/29		StreamBlock 40	64,918,759	0	844,577	0
	Port //1/33		StreamBlock 39	0	0	0	0
					激賞	5 Windows	>
	Nam	e	ip. sro = 192.8 * *	×iX	Bartination	Protocol Langth I	ifferentiated S
C	reate new Frame >	rame	29198 0.011877	192.85.1.2	192.0.0.1	IPv4 128 0	x2b
F	Custom Editor	FINERNETI	29201 0.011877	192.85.1.2	192.0.0.1	IPv4 128 6 IPv4 128 6	x03
-	Quality of Service		29204 0.011877 29220 0.011880	192.85.1.2 192.85.1.2	192.0.0.1	IPv4 128 0 IPv4 128 0	x2b
,	Format Notation:	inserv O los	29278 0.011886 29281 0.011886	192.85.1.2 192.85.1.2	192.0.0.1 192.0.0.1	IPv4 128 0 IPv4 128 0	x83
-	Decimal ~		29283 0.011886 29294 0.011886	192.85.1.2 192.85.1.2	192.8.8.1 192.8.8.1	IPv4 128 0 IPv4 128 0	
	QoS Byte DSCP (D	ec)	29312 0.011921 29336 0.011924	192.85.1.2 192.85.1.2	192.0.0.0 192.0.0.1	IPv4 128 0 IPv4 128 0	x2b x2b
(	01 { 0		29359 0.011927 29363 0.011927	192.85.1.2 192.85.1.2	192.0.0.0 192.0.0.0	IPv4 128 0 IPv4 128 0	x2b x2b
1	DSCP Diffserv Codepoint Codepoint Name [ 0:5 ]		29364 0.011927	192.85.1.2	192.0.0.0	IPv4 128 0	x03
	default : Best Effort	OR	<pre>&gt; Frame 29382: 128 H &gt; Ethernet II, Src: &gt; Destination: X</pre>	bytes on wire (1024 bits Xerox_00:00:01 (00:00:0 erox_00:00:02 (00:00:01 00:00:01 (00:00:01:00:0	s), 124 bytes captured (992 01:00:00:01), Dst: Xerox_00: :00:00:02) 0:01)	bits) on interface \\.\ 00:02 (00:00:01:00:00:0	pipe\view_c 92)
	Class Selector [ 0:2 ] 000000 : default Drop Precedence [ 3:4 ] 0 : Undefined Early Congestion Notification	Per-Hop-Behavior	<pre>&gt; 300rce: xerox_ Type: IPv4 (0xi &gt; Internet Protocol 0100 = Vei  0101 = Hei</pre>	2800) Version 4, Src: 192.85 rsion: 4 ader Length: 20 bytes (1	.1.2, Dst: 192.0.0.1		
H OOO	Class Selector [10:2] 000000 : default Drop Precedence [3:4] 0 : Undefined Early Congestion Notificati ECN Settion [1 Last 2-bits. [01 : ECT (1)	Per-Hop-Behavior	<pre>&gt; Source: sens_ Type: IPv4 (00%) % Internet Protocol 0000 = vv % Differentiated 0000 00 Identification &gt; Flags: 0x00 &lt;</pre>	2800) Version 4, Src: 192.85. rsion: 4 dader Length: 20 bytes () Services Field: ed3 () Differentiated Service Explicit Congestion No Ito : 8xid9e (7582)	.1.2, Dst: 192.0.0.1 S) DSCP: CS0, ECN: CE) s Codepoint: Default (0) tification: Congestion Exper	ienced (3)	
H 000	Class Selector [10:2] 000000 : default Drop Precedence [3:4] 0 : Undefined Early Congestion Notificatis FCN Settino I Last 2-bits [01: ECT (1)	Per-Hop-Behavior	<pre>&gt; Source: sense Type: IPv4 (00%) % Internet Protocol 0000 00 = Vv &gt; Differentiated 0000 00 Identification &gt; Flags: 0x00 &lt; % Sence Address (ij)</pre>	9800) Version 4, Src: 192.85: ston: 4 der Length: 20 bytes (1 Differentiated Service Explicit Congestion No LTD : 0x1d9e (7582)	.1.2, Dst: 192.0.0.1 S) DSCP: CS0, ECN: CE) S CodepoInt: Default (0) tification: Congestion Exper	ienced (3) • • 已最示: 4011 (12.2%) • E	.舌痒: 0 (0.0%)





# NADDOD

# N9500-64OC Smoke Test Report

av       Family       Itemetili       Inverse       Pertural Land:       Itemetili         France       France       Pertural Land:       Itemetili       Itemetili       Pertural Land:       Itemetili         France       Pertural Land:       Itemetili       Itemetili       Pertural Land:       Itemetili         Identification       Opposite       Opposite       Opposite       Opposite       Opposite         Iffersy       Saves MAC       Opposite       Opposite       Opposite       Opposite       Opposite         Iffersy       Saves MAC       Opposite		Name Frame	Value	文件(F) 編輯(E) 视图	(M) 跳转(G) 捕获(C) 3	分析(A) 统计(S) 电话(Y) 无线(W)	工具(T) 帮助(H)	)
1 m       Presendle (Pex)       Presendl	ew Frame >	EthernetII		【▲【広用显示过滤器 Ctrl-	D			C
Frame       Performation MAC       00:00:01:000         Source MAC       00:00:01:000         Custom Editor       00:00:01:000         Quality of Senice       P998 8.08300       2000:12       2000:11       IP-6       128         Yable       Quality of Senice       P998 8.08300       2000:12       2000:11       IP-6       128         Yable       Quality of Senice       P998 8.08300       2000:12       2000:11       IP-6       128         Yable       Qos Style       SCP (DeC)       D0:00:12       2000:11       IP-6       128         Yable       Qos Style       SCP (DeC)       D0:00:12       2000:11       IP-6       128         Yable       Qos Style       SCP (DeC)       D0:00:12       2000:11       IP-6       128         Yable       Qos Style       SCP (DeC)       D0:00:12       2000:11       IP-6       128         Yable       Qos Style       SCP (DeC)       D0:00:12       2000:11       IP-6       128         Do O D O O O D O Differv Codepanth       Codepa	me as	Preamble (hex)	fb555555555	So. Tina	Source	<b>Destination</b>	Protocol Lun	gth Differentiated Services H
15       0.00000000       0.00000000         6dr(3)       1000000000       0.000000000         11       1000000000000000000000000000000000000	Frame	Dectination MAC	00-00-01-00-0	7987 0.003000	2000::2	2000::1	IPv6	128
defs.J       Discription         iffier_VTPE       Quality of Service         > 20012       Quality of Se	25	Destributinine	00.00.01.00.0	7988 0.003000	2000::2	2000::1	IPv6	128
der(s)		- Source MAC	00:00:01:00:0	7990 0 003000	2000::2	2000::1	IPv6	128
Unit of the function is the function of the function o	der(e)	Custom Editor		7991 0.003000	2000::2	2000::1	IPv6	128
and leng yradie       years (a can be an any second s	lifiam A/EDe	Cusity of Service		7992 0.003000	2000::2	2000::1	IPv6	128
Jointin.       Format Notation:         UI       Provent Notation:         Juintin.       Provent Notation:	inters/vrbs	Quarty of Service		7993 0.003000	2000::2	2000::1	IPv6	128
Image: Section 1       Points Notation:       Points Notation: <td< td=""><td>odifier</td><td></td><td></td><td>7994 0.003000</td><td>2000::2</td><td>2000::1</td><td>IPv6</td><td>128</td></td<>	odifier			7994 0.003000	2000::2	2000::1	IPv6	128
UI         Al         Decomd          10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         10000         100000         100000         1000000         100000         100000         100000         100000         100000         100000         100000         100000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000         1000000		Format Notation:		7995 0.003000	2000::2	2000::1	1Pv6	120
with and a set of the se	11	Decimal ~		7997 0.003000	2000::2	2000:11	IPv6	128
Am         Ops Signet         DSCP (Dec)         2000::1         IPv6         128           DSCP Differe Codepoint         DSCP Differe Codepoi	-	Value		7998 0.003000	2000::2	2000::1	IPv6	128
02         0           03         0           04         0           05         0           05         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           00         0           0	AI	QoS Byte DSCP (Dec)		7999 0.003000	2000::2	2000::1	IPv6	128
B 55 65 65 65 6         Cadepoint Name [0:5]         Cadepoint Name		02 { 0		8000 0.003000	2000::2	2000::1	IPv6	128
DSCP Differer Codeport         > Frame 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           Gdeboit Name [15]         > Frame 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           Gdeboit Name [15]         > Frame 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           Gdeboit Name [15]         > Theme 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           Giss Selector [0:2]         OR         > Theme 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           0 000000: defail:         > Theme 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           0 1000000: defail:         > Theme 7991: 128 bytes on wire (1824 bits), 124 bytes captured (992 bits) on interface \\.\pipe\view_captured           0 1000000: defail:         > Theme 7991: 128 bytes on wire (1824 bits), 124 bytes captured (1825 bits), 124 bytes captured           0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				8001 0.003000	2000::2	2000::1	IPv6	128
Codepoint Name [0:5]         > Frame (991: 128 bytes on virtue (124 bits), 214 bytes captured (992 bits) on interface (1, bits) exceptions           default : Bast Effort         > Class Selector [0:2]         OR           Class Selector [0:2]         OR         > Units (1244 bytes) (1050; 1246)(1060; 106		DSCP Diffserv Codepoint						
i defkit : ibsettffort         v           Class Selector [0:2]         OR           0 : Undefined         v           D0000 : effekt         v           0 : Undefined         v           D: Ext (to v         v           D: Ex		Codepoint Name [ 0:5 ]	<pre>couppoint reme [uii] / reme / 201. Loo bytes on ware (1004 0115), 124 bytes captures (192 0115) on Interface (1, bptpe/time_capture_1)</pre>					
Class Selector [0:2]         OR           000000 : default         0           000000 : default         0           0 : bit defined         0           0 : 00 : 00 : 00 : 00 : 00 : 00 : 00 :		default : Best Effort	~	✓ Internet Protocol	Version 6, Src: 2000;	::2. Dst: 2000::1	02 (00.00.01.00	.00.02)
00000 : default		Class Selector [ 0:2 ] OR		0110 = Ve	rsion: 6			
Drop Precedence [34]         Per-Hop-Behavior         * Ulifamential Subject - Default (A)           0 66 56 56 56 56 56 56 56 56 56 56 56 56		000000 : default	~	✓ 0000 0011		= Traffic Class: 0x03 (DSCP:	CS0, ECN: CE)	
Image: Start		Dron Precedence [ 3:4 ] Perch	Hon-Rehavior	0000 0	0	= Differentiated Services	Codepoint: Def	ault (8)
B 55 55 55 55 1 0 00 00 16 67 2 0 00 00 00 00 00 0 0 0 00 00 00 00 0 0 0 0		0 Lindofinad	nop benefici		.11	= Explicit Congestion Not	ification: Cong	estion Experienced (3)
1 00 00 01 66 DD         Early Congestion Notification         Next Header: No Next Header for IPv6 (59)           0 00 00 00 00         CENESting[Lestebids(r]]         Next Header: No Next Header for IPv6 (59)           Next         Dot ECT (0)         V	B 55 55 55	ss st		Pavload Length	: 70	9000 - FIOW Laber, 6X00000		
0 00 00 00 00 00 00 00 00 00 00 00 00 0	1 00 00 01	86 DI Early Congestion Notification		Next Header: N	o Next Header for IPv6	5 (59)		
IbitECT (0)         Source Address: 2009:1           Newi         > Detail(70 tytes)	0 00 00 00	00 00 ECN Setting [ Last 2 bits 6r7]		Hop Limit: 255				
Nevit Control for the second s		10 · ECT (0)		Source Address	: 2000::2			
Nevi of the second of the second seco		10.1001 (0)		Destination Ad	dress: 2000::1			
Navig				<				
LB LADON		Navig	OK Cancel					
	-							
lts PASS	lts <b>DAG</b>	2 C						
lts PASS	ilts PAS	SS						
lts PASS	ilts PAS	SS						
lts PASS	lts PAS	SS						

# **六、**System/ Management 6.1 SNMP

Test Items	SNMP Support Test						
Test Content	Verify that the switch supports the SNMP.						
Test Topology	PC DUTI						
Test Steps	<ol> <li>Connect the host with MIB software installed to the switch.</li> <li>Configure the SNMP community string and agent settings on the switch.</li> <li>Use the snmpwalk tool to query MIB information, check1.</li> </ol>						
Expected Results	Check1: MIB information can be successfully retrieved.,						
Actual Test Results	Step 2: config snmp community add testcomm rw config snmpagentaddress add x.x.x.x Step 3: snmpwalk -c testcomm -v 2c x.x.x.x F:\xijun>snmpget.exe -v 2c -c comtest 172.21.120.7 1.3.6.1.2.1.1.5.0 SNMPv2-MIB::sysName.0 = STRING: sonic						



	F:\xijun>snmpwalk.exe -v 2c -c comtest 172.21.120.7 1.3.6.1.2.1.1.5.0 SNMPv2-MIB::sysName.0 = STRING: sonic
Test results	PASS
Remarks	

# 6.2 SNMP Trap

Test Items	SNMP trap
Test Content	Verify that the device sends SNMP traps as per the configured trap settings.
Test Topology	PC DUT1
Test Steps	<ol> <li>Set up the test environment as illustrated.</li> <li>Configure the device to send SNMP traps to the PC and start the SNMP trap server on the PC.</li> <li>View relevant logs on the PC.</li> </ol>
Expected Results	<ol> <li>The configuration is successful.</li> <li>The SNMP Trap server receives relevant trap messages from the device.</li> </ol>
Actual Test Results	Configure snmp trap server config snmptrap modify 2 -c public x.x.x.x root@sonic:/home/admin# config interface shutdown Ethernet232 root@sonic:/home/admin# config interface startup Ethernet232 Show snmp trap Configure show snmptrap root@sonic:/home/admin# config snmptrap modify 2 -c public 172.21.110.145 root@sonic:/home/admin# show snmptrap Version TrapReceiverIP Port VRF Community 



	soop				
	Tine	Source	Destination	Frotocol	Length Info
	475 8.795855	172.21.120.7	172.21.110.145	TONP	113 smpv2-trap 1.3.6.1.2.1.3.8 1.3.6.1.6.3.1.1.4.1.8
	477 8.822696	172.21.120.7	172.21.110.145	SNMP	The sectration of exercise (for call excision)
	6027 91.414676	172.21.120.7	172.21.110.145	SNMP	113 snmpV2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0
	6028 91.414720	172.21.110.145	172.21.120.7	ICMP	141 Destination unreachable (Port unreachable)
	6178 95.341687	172.21.120.7	172.21.110.145	SNMP	196 snmpV2-trap 1.3.6.1.2.1.1.3.0 1.3.6.1.6.3.1.1.4.1.0 1.3.6.1.2.1.2.2.1.1.233 1.3.6.1.2.1.2.2.1.7.233 1.3.6.1.2.1.2.2.1.8.233 1.
	6179 95.341738	172.21.110.145	172.21.120.7	ICMP	224 Destination unreachable (Port unreachable)
	Frame 6178: 196 by	rtes on wire (1568 b	its), 196 bytes captur	red (1568 bi	its) on interface \Device\NPF_{F82FA485-1BD3-48FD-8C5D-55CB760C92A8}, id 0
	Ethernet II, Src:	c4:a5:c7:36:2d:44 (	c4:a5:c7:36:2d:44), D	t: Giga-Byt	:_15:e5:c5 (50:e5:49:15:e5:c5)
	Internet Protocol	Version 4, Src: 1/2	1.21.120.7, Dst: 1/2.2.	1.110.145	
	Simple Network Nor	action and Postacal	al, Dit Port: 162		
	vension: u2c (1	)			
	community: publ	ic			
	▲ data: srmpV2-tr	ap (7)			
	≠ snmp∀2-trap				
	request-id	: 621703197			
	error-stat	us: naErrar (0)			
	error-inde	x: 0			
	✓ variable-b	indings: 6 items			
	4 1.3.6.1.	2.1.1.3.0: 45583	1200-20121	1.2.03	
	Ubjec	(Timoticke), 45592	.1.3.0 (150.3.6.1.2.1.	1.3.0)	
	41361	6 3 1 1 4 1 0: 1 3	6 1 6 3 1 1 5 4 (iso 3	361631	15.4)
	Objec	t Name: 1.3.6.1.6.3	.1.1.4.1.0 (iso.3.6.1.	6.3.1.1.4.1	
	Value	(OID): 1.3.6.1.6.3	.1.1.5.4 (iso.3.6.1.6.	3.1.1.5.4)	
	# 1.3.6.1.	2.1.2.2.1.1.233: 23	13		
	Objec	t Name: 1.3.6.1.2.1	.2.2.1.1.233 (iso.3.6.	1.2.1.2.2.1	.1.233)
	Value	(Integer32): 233			
	▲ 1.3.6.1.	2.1.2.2.1.7.233: 1			
	Objec	t Name: 1.3.6.1.2.1	.2.2.1.7.233 (iso.3.6.	1.2.1.2.2.1	.7.233)
	Value	(Integer32): 1			
	4 1.3.6.1. Object	t Name: 1 3 6 1 3 1	2 2 1 9 222 (100 2 6	1 2 1 2 2 1	0 2221
	Value	(Interen37): 1	.2.2.1.0.255 (150.5.0.	1.2.1.2.2.1	(6,235)
	4 1.3.6.1	6.3.1.1.4.3.0: 1.3.	6.1.4.1.8072.3.2.10 (1	50.3.6.1.4	1.8072.3.2.10
	Objec	t Name: 1.3.6.1.6.3	.1.1.4.3.0 (iso.3.6.1.	6.3.1.1.4.3	
T ( 1)	DAGG				
l est results	PASS				
Domorka					
Kemarks					

# 6.3 Rsyslog

Test Items	Rsyslog					
Test Content	Verify that the device sends system log messages as per the rsyslog configuration.					
Test Topology	PC DUT1					
1Set up the test environment as shown in the diagram.2Configure the device to send syslog to PC1 and start the log server on PC13View relevant logs on PC1.						
Expected Results	<ul><li>2、The configuration is successful.</li><li>3、The log server receives relevant logs from the device.</li></ul>					
Actual Test Results	Configure a remote syslog server. config syslog add x.x.x.x root@sonic:/home/admin# config syslog add 172.21.110.145 Show syslog 172.21.120.7 03/03 14:31:52.101 <86>Mar 3 14:34:11.071570 sonic INFO sudo[225503]: pam_unix(sudo:session): session opened for user root(uid=0) by admin(uid=0) 172.21.120.7 03/03 14:31:52.101 <35>Mar 3 14:34:11.131290 sonic ERR PAM-tacplus[225503]: ACC: TACACS+ service type not configured					



	172.21.120.7 03/03 14:31:52.160
	<86>Mar 3 14:34:11.131402 sonic INFO sudo[225503]: pam unix(sudo:session):
	session closed for user root
	172.21.120.7 03/03 14:31:52.161
	<14>Mar 3 14:34:54.990603 sonic INFO syncd#syncd: [none]
	_brcm_sai_link_event_cb:870 Send port 165 up notification done.
	172.21.120.7 03/03 14:32:36.020
	<13>Mar 3 14:34:54.991438 sonic NOTICE swss#orchagent: :- doTask: Get port state
	change notification id:100000000020 status:1
	172.21.120.7 03/03 14:32:36.021
	<13>Mar 3 14:34:54.991438 sonic NOTICE swss#orchagent: :- updatePortOperStatus:
	Port Ethernet232 oper state set from down to up
	172.21.120.7 03/03 14:32:36.022
	<13>Mar 3 14:34:54.993034 sonic NOTICE iccpd#iccpd:
	[iccp_event_handler_obj_input_newlink.NOTICE] Update local port Ethernet232 state
	up
	172.21.120.7 03/03 14:32:36.022
	<13>Mar 3 14:34:54.993127 sonic NOTICE iccpd#iccpd:
	[iccp_event_handler_obj_input_newaddr.NOTICE] ifname Ethernet232 index 60
	address fe80::8e5d:b2ff:feb6:0 13_proto 0, prefix_len 64
	172.21.120.7 03/03 14:32:36.023
	<13>Mar 3 14:34:54.993225 sonic NOTICE swss#portsyncd: :- onMsg: nlmsg type:16
	key:Ethernet232 admin:1 oper:1 addr:8c:5d:b2:b6:00:00 ifindex:60 master:0
	172.21.120.7 03/03 14:32:36.024
	<13>Mar 3 14:34:54.993424 sonic NOTICE swss#orchagent: setHostIntfsOperStatus:
	Set operation status UP to host interface Ethernet232
	172.21.120.7 03/03 14:32:36.024
	<13>Mar 3 14:34:54.993424 sonic NOTICE swss#orchagent: :-
	updateMonitorLinkGrpDownlinkOperStatus: update port Ethernet232, oper status 1
	1/2.21.120.7 $03/03$ $14:32:36.025$
	<0> V ar 3 14:34:54.994522 sonic INFO kernel: [ $3099./3/388$ ] IPV0:
	ADDRCONF(NETDEV_CHANGE): Ethernet232: link becomes ready
	1/2.21.120.7 05/05 14:52:50.020
	<13-Mar 3 14:34:34:34:34:002 sonic NOTICE swss#portsyncd: :- onivisg: Publish
	Einernei252(ok:up) to state do
Test results	PASS
10001000000	
Remarks	

# 6.4 Open SSH/SCP/SFTP

Tost Itoms	Open SSH/SCP/SFTP
Test Content	Test that the switch supports Open SSH/SCP/SFTP.
Test Topology	PC DUT1
Test Steps	1、Use the command line on PC1 to remotely log in via SSH: ssh admin@DUT_IP (follow prompts).



	2、After successful login, use config and show commands for configuration.
	3、Use SCP on PC1 to transfer a file to the switch: scp testfile admin@DUT_IP:testfile.
	4、Use SCP on PC1 to retrieve a file from the switch: scp
	admin@DUT_IP:testfile ./testfile.
	5、Use SFTP on PC1 to remotely log in: sftp admin@DUT_IP (follow prompts).
	6. Within the SFTP interactive shell, upload a file: put testfile.
	7、Within the SFTP interactive shell, download a file: get testfile.
	1、Login is successful.
Expected	2、Commands take effect.
Expected	3-4. File transfer is successful.
Results	5、SFTP login is successful.
	6-7. File transfer via SFTP is successful.
	The SSH and SFTP services are enabled by default.
	ssh sonic login: admin
	Password:
	Linux sonic 5.10.0-8-2-amd64 #1 SMP Debian 5.10.46-4 (2021-08-03) x86_64
	You are on
	Software for Open Networking in the Cloud
	Unauthorized access and/or use are prohibited.
	All access and/or use are subject to monitoring.
Astual Test	Help: http://azure.github.io/SONiC/
Results	Last login: Fri Feb 28 17:23:03 CST 2025 on ttyS0
	scp.
	E:\Version\CN9500-64OC>scp admin@172.21.120.7:/tmp/gu/test_scp.txt E:\Version\CN9500-64OC
	admin@172.21.120.7's password:
	E:\Version\CN9500-64OC>
	sftp
	sftp> put E:\Version\CN9500-64OC\test_sftp.txt
	Uploading E:/Version/CN9500-64OC/test_sftp.txt to /tmp/gu/test_sftp.txt
	test_sttp.txt 100% 0 0.0KB/s 00:00
	sith>
	sftn> get test sftn tyt E\Version\CN9500_640C
	Fetching /tmp/gu/test sftp.txt to E:/Version/CN9500-64OC/test sftp.txt
	sftp>
Test results	PASS



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Remarks							
6.5 Mirroring							
Test Items	Mirroring						
Test Content	MirroringVerify whether the DUT (Device Under Test) supports Mirroring.						
Test Topology	DUT1 1 2 3 C STC B						
Test Steps	<ol> <li>Connect the devices as per the test environment.</li> <li>Configure port mirroring on the DUT, with Interface 1 as the source port and Interface 3 as the destination port.</li> <li>Send data packets from Port A to Port B of the test instrument.</li> <li>Reconfigure port mirroring on the DUT, setting Interface 1 and Interface 2 as source ports and Interface 3 as the destination port, then send data packets between Port A and Port B of the test instrument.</li> </ol>						
Expected	<ul><li>3、The test traffic sent from Port A can also be observed on DUT's Interface 3.</li><li>4、The test traffic sent from both Port A and Port B can be observed on DUT's Interface</li></ul>						
Results	3.						
Actual Test Results	Vlan         config vlan add 100         config vlan member add 100 Ethernet16 -u         config vlan member add 100 Ethernet18 -u         rot@sonic:=@show vlan brief         VLAN ID       IP Address         Port       Proxy         Imaging       ARP         Address       Imaging         Imaging       Imaging         Imaging       ARP         Imaged       Imaged         Imaged <td< td=""></td<>						





Foot@sol ERSPAN	110:~				
Mamo	hic:~# show mirror_session Sessions				
	Status SRC IP DST IP GRE DSCP TTL	Queue Policer Monitor Port SRC Port Directi			
SPAN Se Name	ssions Status DST Port SRC Port Direction Q	ueue Policer			
TGA s	active Ethernet20 Ethernet16 both M	C0			
Port A	iends packets to TOD.				
🖃 Fra	ame				
¢	EthernetII				
	Preamble (hex)	fb555555555555555555555555555555555555			
	···· Destination MAC	00:10:94:00:00:02			
	···· Source MAC	00:10:94:00:00:01 <auto> Internet IP</auto>			
	EtherType (hex)				
	IPv4 Header				
	···· Version (int)	<auto> 4</auto>			
	Header length (int)	<auto> 5</auto>			
	···· ToS/DiffServ	tos (0x00)			
	Total length (int)	<auto> calculated</auto>			
	···· Identification (int)				
	- Control Flags				
	Reserved (bit)	0			
	Reserved (bit)	0			
Port C	a Acon Deprets Hes ලැබරාගන - ලි.444 ලිලා බි 12 ලි දී 00007 ල. ල. දේ දේ වූ ලි hes het care D 00	🚹 Tetradojan - 🕞 Propostar = 🗇 Segurar - 🐊 Republic - 🎉 Kanany -			
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	Port //4/1	0	2,544,570,557	0	2,005,040,045,000
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Test Topology	DUTI 1 2 A STC B
Test Steps	Modify DUT ports 472, 480, and 488 to 2x200G mode.
Expected	The ports can be split correctly, and the docking of the remaining ports can be up.
Results	
Actual Test Results	The optical module is in place to modify the 2x200G mode. config interface breakout Ethernet472 2x200G config interface breakout Ethernet480 2x200G config interface breakout Ethernet488 2x200G config interface startup Ethernet472 config interface startup Ethernet476 config interface startup Ethernet488 The ports are 800G ports by default. Split the ports into 200G ports using the CLI commands: sudo config interface breakout Ethernet16 4x200G sudo config interface breakout Ethernet24 4x200G
	the topology diagram. The results are as follows:



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Ethernet22       untagged       Link Selection:         4990       Ethernet22       untagged       Source Interface:         1       Source Interface:       Source In
4999       Ethernet3       untagged       disbled       Source Interface:         1 Link Selection:       Server Vf;         Server Vf;       Server Vf;         Name       VD Mubbr       Mode         Vlan202       202       Ethernet3       untagged         Vlan4090       4099       Ethernet3       Ethernet3         Vlan4090       4099       Ethernet3       Ethernet3         Vlan4090       4099       Ethernet3       Ethernet3<
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| Desc         Dist         Dist <thdis< th="">         Dist         Dist         <thd< td=""><td>pics         title         0.0         Current         0.0         Current         0.0</td><td></td><td>Port Name Port //4/3. Port //14. Port //14.</td><td>otel Tx Count Totel Rx (<br/>(Prames) (Prames)<br/>LaboldSLAM 2.1.1.2.2.4.4<br/>LaboldSLAM 2.1.1.2.2.4.4<br/></td><td>aunt Total Tx C</td><td>Court (bits) Tx<br/>22,227,224 d<br/>15,555,647 d<br/>-12 Ethernet</td><td>L1 Rate (Percer</td><td>at) RxLLRete(</td><td>Percent) Tota<br/>11,2<br/>11,2</td><td>Rx Court (bits</td><td><ul> <li>Generator 3<br/>21,023,021,0<br/>31,021,041,4</li> </ul></td><td>i Count (Frames)<br/>12<br/>12</td><td>Rx Sig Count (Fre<br/>11.011.041.402<br/>11.020,051.091</td><td>rer) Error<br/>N<br/>F 7</td><td>Basic Sequen<br/>me/ID Tx Po<br/>A Chem Fort<br/>S-Others Port</td><td>ing Advanced<br/>of Name Ro P<br/>Nam<br/>7/2/21 Post<br/>7/2/41 [ Port</td><td>Sequencing H<br/>ort Tx Cou<br/>es (Frame<br/>//L/A 22,000<br/>//L/3 22,022</td><td>stograms<br/>nt Rx<br/>s) (Pn<br/>051,091 21,<br/>841,492 21,</td><td>Count<br/>ames)<br/>ICV, IST, Hot<br/>ICZ, SH1, Hot</td><td>Dropped<br/>(frames)</td><td>Count</td><td>Dropped Frame<br/>Percent<br/>0.400</td></thd<></thdis<>   | pics         title         0.0         Current         0.0         Current         0.0   |      | Port Name Port //4/3. Port //14. Port //14.   | otel Tx Count Totel Rx (<br>(Prames) (Prames)<br>LaboldSLAM 2.1.1.2.2.4.4<br>LaboldSLAM 2.1.1.2.2.4.4<br>   
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   | Sequencing H<br>ort Tx Cou<br>es (Frame<br>//L/A 22,000<br>//L/3 22,022  | stograms<br>nt Rx<br>s) (Pn<br>051,091 21,<br>841,492 21,  | Count<br>ames)<br>ICV, IST, Hot<br>ICZ, SH1, Hot                  | Dropped<br>(frames)   | Count   | Dropped Frame<br>Percent<br>0.400   
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| Ethernet20         0         11,621,84,00         65,18 M/s         1.70%         0         0         8.0%         0         0           Ethernet20         0         11,621,84,00         65,18 M/s         0         0         0.0%         0         0         0.0%         0         <   | Ethermet20         U <thu< th=""><th></th><th>PotNeme<br/>Pot//145.<br/>Pot//14.<br/>Pot//14.<br/>Pot//14.</th><th>otal Tx Count Total Rx C<br/>(Prance) (Prance)<br/>LarousLanc ILarous<br/>LarousLanc ILarous<br/>*** show interfao<br/>i time was 2025-0</th><th>aunt Total Te 0<br/>14/02 112/04/50<br/>20/07 112/06/50<br/>112/06/50<br/>112/06/50<br/>es counters<br/>2-28 10:16:1</th><th>Court (bits) Tx<br/>2,327,244 d<br/>15,595,647 d<br/>-12 Ethernet<br/>27,296294</th><th>Ll Rate (Percer<br/>t20, Ethern</th><th>et 22</th><th>Percent) Tota</th><th>Rx Court (bits<br/>96<i>332,317,18</i>9</th><th><ul> <li>Generator S</li> <li>11,021,642,4</li> </ul></th><th>i Count (Frames)<br/>12<br/>12</th><th>Rx Sig Count (Fre<br/>11.021.041.902<br/>11.020.051.091</th><th>ner.) Error<br/>N<br/>&gt; 7</th><th>Basic Sequen<br/>me/2D Tx Pc<br/>A Column Fort<br/>&amp; Othern Fort</th><th>ing Advanced<br/>of Name Ro P<br/>Nam<br/><u>(7/2/11</u>]. Port</th><th>Sequencing H<br/>ant Tic Ceu<br/>es (Preme<br/>//1/4 22.000<br/>//1/3 12.622</th><th>stagrams<br/>nt Rx (Pn<br/>651,001 21,<br/>841,482 21,</th><th>Count<br/>emes)<br/>#20.052.462<br/>#21.941.462</th><th>Dropped (<br/>(frames)</th><th>Count</th><th>Dropped Frame<br/>Percent<br/>2.000</th></thu<> |      | PotNeme<br>Pot//145.<br>Pot//14.<br>Pot//14.<br>Pot//14.  | otal Tx Count Total Rx C<br>(Prance) (Prance)<br>LarousLanc ILarous<br>LarousLanc ILarous<br>*** show interfao<br>i time was 2025-0   
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Direct         STATL         RC,04         RC,047         RC,047 </td <td>24ACE STATE RE, KR, KR, KR, KR, KR, KR, KR, KR, KR, KR</td> <td></td> <td>Pot Nene Pon //113. Pon //114. root@sontc Last cache IFACE Ethermet20 Ethermet20</td> <td>over in Court Tobe Ric Tobe Richt Richt</td> <td>Total Te C LMC2 72,296,50 LM27 72,206,50 es. counters 2-28 10:16:1 RX_CK ,051,091 42 ,841,402 42</td> <td>Court (bits) 7x 22,227,144 a 15,552,447 a -3. Ethernet 27,296294 RX_BPS 25,581 MB/s 25,581 MB/s 25,583 MB/s 25,581 MB/s</td> <td>t20, Ethern RX_UTTL 1.70%</td> <td>et 22 RX_LERR et 22 RX_ERR 0 0</td> <td>RX_DRP</td> <td>Rx Court (bits N.S.S.C.J.S.LAN RX_OVR 0 0</td> <td>Certerator 3 ILCOLOGIA ILCOLOGIA RX_DRP_R RX_DRP_R 0, 0</td> <td>TE 11, 821</td> <td>Rx Sig Count (Pre 12.022,042,442 12.022,052,042 TX_OK 841,511 425 851,200 425</td> <td>TX_BPS 83 MB/s 81 MB/s</td> <td>Basic Sequent me/ID Tx Po Addison Port SECtion Port TX_UTTL 1.70% 1.70%</td> <td>ing Advanced of Name Rx P Nam (7/571 Pert (7/571 Pert (7/571 Pert TX_ERR 0 0</td> <td>Sequencing H ort Tix Cou (Frame //1/4 / 7.000 //1/13 . 52.021 TX_DRP 0 0</td> <td>stograms nt Rx s) Rx (m 855,097 32) 844,492 320 TX_OVR </td> <td>Court erres) #26.852.652 #22.842.462 TX_DRP</td> <td>Dropoed (frames) 2 2 2 RATE 0.00% 0.00%</td> <td>Court CNP_PKT 0 0</td> <td>Dropped Frame Percent 2,000 ECN_PKT 0 0 0</td>	24ACE STATE RE, KR, KR, KR, KR, KR, KR, KR, KR, KR, KR		Pot Nene Pon //113. Pon //114. root@sontc Last cache IFACE Ethermet20 Ethermet20	over in Court Tobe Ric Tobe Richt	Total Te C LMC2 72,296,50 LM27 72,206,50 es. counters 2-28 10:16:1 RX_CK ,051,091 42 ,841,402 42	Court (bits) 7x 22,227,144 a 15,552,447 a -3. Ethernet 27,296294 RX_BPS 25,581 MB/s 25,581 MB/s 25,583 MB/s 25,581 MB/s	t20, Ethern RX_UTTL 1.70%	et 22 RX_LERR et 22 RX_ERR 0 0	RX_DRP	Rx Court (bits N.S.S.C.J.S.LAN RX_OVR 0 0	Certerator 3 ILCOLOGIA ILCOLOGIA RX_DRP_R RX_DRP_R 0, 0	TE 11, 821	Rx Sig Count (Pre 12.022,042,442 12.022,052,042 TX_OK 841,511 425 851,200 425	TX_BPS 83 MB/s 81 MB/s	Basic Sequent me/ID Tx Po Addison Port SECtion Port TX_UTTL 1.70% 1.70%	ing Advanced of Name Rx P Nam (7/571 Pert (7/571 Pert (7/571 Pert TX_ERR 0 0	Sequencing H ort Tix Cou (Frame //1/4 / 7.000 //1/13 . 52.021 TX_DRP 0 0	stograms nt Rx s) Rx (m 855,097 32) 844,492 320 TX_OVR 	Court erres) #26.852.652 #22.842.462 TX_DRP	Dropoed (frames) 2 2 2 RATE 0.00% 0.00%	Court CNP_PKT 0 0	Dropped Frame Percent 2,000 ECN_PKT 0 0 0
Ethernet28 0 11,023,051,071 123,12 M/s 0.775 0 0 0 0.00% 11,023,041,153 192.53 M/s 0.776 0 0 0 0.00% 0 0 Ethernet22 0 11,021,041,402 192.53 M/s 0.776 0 0 0.00% 0 0 Ethernet22 0 11,021,041,402 192.53 M/s 0.776 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0 0.00% 0 0.00% 0 0 0.00%	Therver29 0 11,623,663,697 10:0: M/a 6:77, 0 6 0 0.95, 11,627,144,53 10:0: M/a 6:77, 0 0 6 0.95, 0 6 C C C C C C C C C C C C C C C C C C		Pot Nene Pot //13. Pot //14. root@eonic Last cache IFACE Ethernet20 Ethernet22 root@sonic Last cache	over in Court Tobe Ric Tobe Ri	Junit         Total Te C           LM02         22.244,50           LM02         22.244,50           LM02         22.244,50           LM02         21.206,50           es         counters           c-28         10:16:1           es         counters           es         counters           c-28         10:16:1           -28         10:16:1	Court (bits) 7x C2227,144 a 15,552,447 a -1, Ethernet 27,296294 RX_BPS 25,81 M8/s 25,83 M8/s -4 Ethernet 27,296294	LI Fate (Percer t20, Ethern RX_UTTL 1,70% t20, Ethern	H) RKLIRste( 2 0 Net22 RX_ERR 0 Net22	RX_DRP	Rx Court (bits RX_OVR 0 0	<ul> <li>Generato: 3</li> <li>ILORGELI</li> <li>ILORGELI</li> <li>ILORGELI</li> <li>ILORGELI</li> <li>ILORGELI</li> <li>ILORGELI</li> <li>RX_DRP_R</li> <li>0.</li> <li>9.</li> </ul>	TE 1000000000000000000000000000000000000	Rx 3g Court (Fre 22.022.042.442 12.022.045.442 12.022.045.042 TX_OK .841,511 425 .851,200 425	TX_BPS .83 MB/s 61 MB/s	Basic Sequent me/ID Tx Pot 6-20em Pot 5-20em Pot TX_UTIL 1.70% 1.70%	ing Advaroed of Name Rv P Nam (7/272) Foot (7/274) E. Port TX_ERR 0 0	Sequencing H ort Tix Cou es (Frame //104 22,000 //14/3 22,	stograms ht Rx p) (Yn est,007 21, est,002 31, est,007 21, est,007 21, est,00	Count ames) #XX#55.644 #ZL#41_462 TX_DRP	Drspoed (frames) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Count CNP_PKT 0	Dropped Frame Percet 2.000 ECN_PKT 0 0 0
tthemet22 0 11,021,041,042 192.13 H0/s 0.77% 0 0 0.00% 11,029,051,202 192.19 H0/s 0.77% 0 0 0.00% 0 0	Ethernet22 0 11/(E1)/341/482_1192.33 M9/4 0.77% 0 0 0 0.00% 11/(S0/(03)/282 192.32 M9/4 0.77% 0 0 0 0.00% 0 0		PortNeme Port/US. Port/Doctors Port/Port/Port/Port/Port/Port/Port/Port/	one in Court Tobe Ro T	Joint Total Te C           LAND ILLAND           LOYZ ILLAND           LOYZ ILLAND           Scounters           2-28 10:16:1           RX_OK           ,051,001           ,841,402           42           es counters           -28 10:16:1           RX_OK           2-20 10:16:1           RX_OK	Count (bite) Tr 20.2022/249 2 15.550.497 7 15.550.497 7 15.550.497 7 15.550.497 7 15.550.497 8 15.550.497 8 15.550.407 8	11 Fate (Percer 120, Ethern RX_UTTL 1.70% 1.70% 1.20, Ethern RX_UTTL	H) RKLIRHE( d d d d d d d d d d d d	RX_DRP	RX_OVR RX_OVR RX_OVR	<ul> <li>Generator 3</li> <li>ILANACILI</li> <li>ILANACILI</li> <li>ILANACILI</li> <li>ILANACILI</li> <li>RX_DRP_R</li> <li>9</li> <li>8</li> <li>RX_DRP_R</li> </ul>	TE 1000000000000000000000000000000000000	Rx 3g Court (Fre 22.032.042.442 12.032.042.442 12.032.042 12.022.042 TX_OK 12.05	TX_BPS TX_BPS	Basic Sequent me/ID Tk Po 4.20mm Pot 9.20mm Pot 15.20mm 1.70% 1.70% 1.70%	ing Advaroad of Name Ro P And 7/2/27 L Nam 7/2/27 L Nam 7/2/27 L Point TX_ERR 0 0 TX_ERR	Sequencing H ant Tx Cau es (frame /ft) 72.000 /ft/3 52.022 TX_DRP 6 0 TX_DRP	stograms tt Rx (fm 65,095 St, 644,492 St, TX_OVR 0 0 TX_OVR	Count smes) #XX.055.065 #XX.08P TX_DRP	Droposed (frames) 2 2 P_RATE 0.00% 0.00%	Court CNP_PKT 0 CNP_PKT	Proposed Prame Present (AAAA) 0.001 FCN_PKT 0 ECN_PKT
			Pot News Pot //U3 Pot //U3 Pot //U4 I cootRoonic Last cache ITFACE Ethernet20 Ethernet20 Ethernet20 Ethernet20 Ethernet20 Ethernet20 Ethernet20	one 'n Court Float ie ( 'manea) (Planea) LENDELAN ILLENDE STATE U 17,020 U 17,020	Total Te C 1440 1224433 L097 1224433 L097 1224433 L097 1224633 es counters 2-28 10:16:1 RX_OK 42 es counters 2-28 10:16:1 RX_OK -051,001 11	Count (bite) Tr 20,222,224 2 5,550,447 7 25,550,447 7 27,296294 RX_BPS 25,61 MB/s 25,63 MS/s -3 Ethernet 27,296294 RX_BPS 27,296294 RX_BPS 27,296294 RX_BPS	11 Rate (Percer 120, Ethern RX_UTTL 1.70% 120, Ethern RX_UTTL 0.72%	n) RKLIRHE( d d d d d d d d d d d d d	RX_DRP	Re Court (bits 6.N.S.S. Per H.S.S.J.J. Per H.S.S.J.J. Per B 0 0 RX_OVR 0 0	Cenerator S LL RXLAHL RX_DRP_R RX_DRP_R 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	TE 11, 021 12 12 15 16, 11, 021 17 17 17 17 17 17 17 17 17 1	Rx 30 Count (Pre 12,422,442,442,442 12,422,442,442,442 12,422,442,442 12,422,442,442 TX_OK 841,511 425 TX_OK 841,513 192	TX_BPS	Basic Sequent may/2D Tx Po 2420mm Pot 2420mm Pot 2420mm Pot 15,20% 1,70% TX_UTEL 0,77%	oing Advanced of Name Re F (1/27 L Port //2/41 L Port TX_ERR 0 TX_ERR	Sequencing H ant Tx Cou (1/14) 7x Cou (1/14)	stograms nt Pac p) (Prr p)	Count ames) AXAJSLAGT AZLAHLAGI TX_DRP TX_DRP	Dropoed (frames) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Count CNP_PKT 0 CNP_PKT 0	Eropped Pame Percent 2000 ECN_PKT 0 ECN_PKT 0
			Potterne Perr/VL3 Perr/VL3 Perr/VL4 Perr/V	one h Com. Tool is of (Marana) DENORCONY INCLUSE NUMBER OF A CONTRACT NUMBER OF A CONTRACT N	2-28 10:16:17 851,091 42 851,091 42 851,091 42 851,091 42 851,091 42 851,091 8:16:15 82,08 10:16:16 10:16	Court (bits) 7x Court (bits) 7x Court of the court of t	L1 Rate (Percer t20, Ethern RX_UTTL 1.70% 120, Ethern RX_UTTL 0.77% 0.77%	nt) RxLLRate( d d d d d d d d d d d d d	Percent) Tota 222 222 RX_DRP 0 RX_DRP 0 RX_DRP 0 0	Re Court (bits S. Sociation of the Hassociation of the RX_OVR RX_OVR RX_OVR 0 0 0	<ul> <li>Centrator State</li> <li>ZL002,642,4</li> <li>ZL02,642,4</li> <li>RX_DRP_R</li> <li>0</li> <li>RX_DRP_R</li> <li>0</li> <li>0</li> <li>0</li> </ul>	Count (Framer) 22 TTE 10% 11,021 TTE 11,020 TTE 11,020 TTE 11,020	Rx 39 Count (Pre <i>12.025,042,492</i> <i>12.026,052,042</i> TX_0K 841,511 425 R51,208 425 TX_0K 841,513 192 051,202 192	TX_BPS 53 MB/s 53 MB/s 53 MB/s 53 MB/s 52 MB/s	Basic Security     me/20     Tx Po     2:6/mm     Pon     2:6/mm     Pon     1:70%     TX_UTTL     0.77%     0.77%	ing Advanced of Name Do P Nam 1/2/41 L Port TX_ERR 0 0 1/X_ERR 0 0 0	Sequencing H ant To Course es (Frame //1/14 12.021 //1/14 12.021 TX_DRP 0 0 TX_DRP 0 0	stograms tt Sx.077 IX. Sx.077 IX. PHL492 IX. TX_OVR 0 0 0 0 0	Count ames) AX&ASLAGY TX_DRP TX_DRP	Drepoed (frames) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Court CNP_PKT 0 0 CNP_PKT 0 0	ECN_PKT 6 0 0 0 0 0 0
			Pod New Prant/Wie Prant/Wie Information Last cache TFAcE Ethornet22 Foot@Monit Last cache LiFAcE Ethornet22	one h Come. Toole to Come (ane) Provide the Laboratory 1222124 Laboratory 1222124 Laboratory 1222124 Laboratory 1222124 U 11,0220 U 11,0221 U 11,0221 U 11,0221 U																		
11,0221   | June         Total Trice           LAND         FLOMESO           LAND         FLOMESO           JL2015.00         JL2015.00           LAND         FLOMESO           2-28         10-10:1           RX_OK         42           941         420           2-20         10-16:1           RX_OK         2-20           9.01         10           BAL, 402         11           9.41         4.00           4.00         4.00           9.01         10           9.01         4.00  | Subt (bit) 57<br>5392/24/ 2<br>5395/44/ 2<br>5395/44/ 2<br>5395/44/ 2<br>5395/44/ 2<br>5395/44/ 2<br>5396/44<br>82/55/81 MB/s<br>55/581 MB/s<br>52/52 MB/s<br>52/53 MB/s  | L1 Rate (Percer<br>t20, Ethern<br>RX_UTTL<br>1, 70%<br>120, Ethern<br>RX, UTTL<br>6, 77%<br>0, 77%        | t) RLLBHE   
  | RX_DRP<br>RX_DRP<br>RX_DRP<br>0<br>RX_DRP<br>0<br>0  | Rx Court (brin<br>IS ACC Soc Are<br>H S3CC JOC IP<br>RX_OVR<br>B<br>RX_OVR<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B   | <ul> <li>Generator Store</li> <li>ZLOULAND</li> <li>ZLOULAND</li> <li>RX_DRP_R</li> <li>RX_DRP_R</li> <li>RX_DRP_R</li> <li>0</li> <li>0</li> </ul>                                      | Count (Premer)<br>22<br>27<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75   | Rx 3g Count (Fre<br>22.822.642.402<br>12.422.631.492<br>TX_OK<br>843.511 425<br>851.200 425<br>TX_OK<br>844.513 192<br>051.202 192   | TX_BPS<br>TX_BPS<br>63 MB/s<br>TX_BPS<br>1X_BPS<br>53 MB/s<br>52 MB/s   
  | Banc Security     Figure 2 (2017)     Security     Security     Security     TxLuttl.     126%     TxLuttl.     126%     TxLuttl.     077%     077%   | Advanced<br>Int Name Sup P<br>(127) Vert<br>(127) Vert<br>(127) Vert<br>(127)
Vert<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)<br>(127)  | Sequencing H<br>oft Tx Course<br>(Treem<br>(TIM 12.000<br>(TX_DRP<br>0<br>0<br>1X_DRP<br>0<br>0<br>0   | stograms<br>tt   | Count<br>mres)<br>#200552.0457<br>#22.942.462<br>TX_DRP<br>TX_DRP | Droposed<br>(rismes)<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>4<br>5<br>2<br>2<br>2<br>4<br>5<br>2<br>2<br>2<br>2  
  | Count<br>CNP_PKT<br>0<br>0<br>CNP_PKT<br>0<br>0 | Dropped Prame<br>Percent<br>AAM<br>CON_PKT<br>CON_PKT<br>CON_PKT<br>CON_PKT<br>CON_PKT<br>0<br>0<br>0   | | | | | | | | | | | | | | | | | | | | | |
|  |  |      | Pot Name<br>Pant //UA<br>Pant //UA<br>Pant //UA<br>Last cache<br>TFAcc<br>Ether met22<br>Ether met22<br>Ether met22   | Vertical District Tool is of the Court of th  | Aure         Total Tr Col Tr C           LAV2         ZZ2463           LAV2         ZZ2463           LAV2         ZZ2463           SE         Counters           SE         SE           LAV2         ZZ2463           SE         SE   | Suit (etc) 5<br>5,595,447 / 7<br>5,595,447 / 7<br>1 Ethernet<br>77,296294<br>RX_EPS<br>25,51 HP/s<br>55,63 HB/s<br>1 Ethernet<br>77,296294<br>RX_EPS<br>20,51 HP/s<br>55,63 HB/s<br>12,52 HB/s<br>12,53 HB/s  | Ll Rate (Percen<br>t20, Ethern<br>RX_UTIL<br>1.70%<br>t20, Ethern<br>RX_UTIL<br>0.77%<br>0.77%            | rt) RxLIRefe(  | Percent) Tota<br>222<br>223<br>224<br>224<br>224<br>224<br>224<br>224<br>224<br>224  | RECOURT (bits<br>GACLOSCIC)<br>HISSOCIC/IN<br>RX_OVR<br>0<br>RX_OVR<br>0<br>0<br>0<br>0  | <ul> <li>Generator 30</li> <li>Zadabartza</li> <li>Zadabartza</li> <li>Zadabartza</li> <li>Zadabartza</li> <li>RX_DRP_R</li> <li>RX_DRP_R</li> <li>0</li> <li>0</li> </ul>               | Count (frames)<br>22<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25<br>25   | Rx 30 Count (Fre<br>22.002.44.467<br>12.002.651.492<br>TK_OK<br>847, 511 4225<br>651, 269 425<br>TK_OK<br>0.41, 513 192<br>051, 262 192  | TX_BPS<br>TX_BPS<br>83 MB/s<br>81 MB/s<br>1X_BPS<br>53 MB/s<br>52 MB/s   | Basic Security     Tx Pro     Tx Pro     Security     Tx Pro     Security     Tx_UTTL     Tx_UTTL     T.70%     TX_UTTL     0.77%   | en Name Ref Parted<br>et Name Ref Parted<br>(1241) Part<br>TX_ERR<br>0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | Sequencing H<br>The Count The Count<br>(Trian Annual Annual<br>TX_DRP<br>0<br>0<br>0<br>0  | stograms<br>rt Rx_e)<br>(FX_007 27,<br>R4(.402 27,<br>TX_0VR<br>0<br>0<br>TX_0VR<br>0<br>0   | Court<br>smee)<br>add(d552444<br>TX_DRP<br>TX_DRP                 | Dropoed<br>(rismes)<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2  | Count<br>CMP_PKT<br>0<br>CMP_PKT<br>0<br>0      | Dropped Frame<br>Percett<br>2.607<br>ECN_PKT<br>0<br>ECN_PKT<br>0<br>0<br>0   |
|  |  |      | Pod 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  | L1 Rate (Percen<br>t20, Ethern<br>RX_UTTL<br>1.70%<br>1.70%<br>20, Ethern<br>RX_UTTL<br>0.77%             | et) RxLIRefe(<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a<br>a   | RX_DRP<br>RX_DRP<br>0<br>RX_DRP<br>0<br>0<br>0<br>0<br>0   | Re Court (bite<br>4-332-372 AH<br>RX_OVR<br>0<br>8<br>RX_OVR<br>0<br>0<br>0  | <ul> <li>Generator St. 22,000,0220</li> <li>ZL,002,0424</li> <li>ZL,002,0424</li> <li>RX_DRP_R</li> <li>0</li> <li>RX_DRP_R</li> <li>0</li> <li>0</li> <li>0</li> </ul>                  | Count (frames)<br>22<br>27<br>27<br>28<br>29<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37   | 8x 3g cont (fre<br>12.00244.402<br>17.00050.091<br>TK_0K<br>841, 511 425<br>15.00<br>425<br>TK_0K<br>941, 513 192<br>951, 202 192  | TX_BPS<br>B3 MB/s<br>B3 MB/s<br>B3 MB/s<br>C3 MB/s<br>C3 MB/s<br>C3 MB/s   | Base Society     Te R     Zebuse Fort     Zebuse Fort     Zebuse Fort     Zebuse Fort     Tx_UTTL     1.70%     1.70%     X,UTTL     0.77%     0.77%  | ing Advanced<br>int Name Rolp Rolp<br>(1)2201 New<br>(1)2201 New<br>(1)2201 New<br>(1)2201 Port<br>TX_ERR<br>0<br>0<br>0<br>0<br>0<br>0   | Sequencing H<br>ort Tx Could<br>(Tree (Tree<br>(Tree<br>(Tree<br>(Tree<br>(Tx, DRP)<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | stograms<br>st Roc ROCROC ROCROCROCROCROCROCROCROCROC  | Count<br>mines)<br>IRAUSLAN<br>IRAUSLAN<br>TX_DRP<br>TX_DRP       | Dropord<br>(frames)<br>0<br>2_RATE<br>0.00%<br>0_RATE<br>0.00%  | Count<br>CNP_PKT<br>0<br>CNP_PKT<br>0<br>0      | Enopoed Frame<br>Anne<br>Color<br>CON_PKT<br>CON_PKT<br>CON_PKT   |
|  |  |      | Pot New<br>Pot  | Variani<br>Variani<br>University (2012)<br>University (20  | Jouris         Total Trice           Creez         J 204953           LOVY         J 204953           Score         J 204953           J 204054         J 204954   | Court (bit) 75<br>25/22/24/ 2<br>25/35/24/ 2<br>3/35/2024<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25/02/34<br>77.25  | LI Rate (Percen<br>t20, Ethern<br>RX_UTIL<br>1.70%<br>1.70%<br>220, Ethern<br>RX_UTIL<br>0.77%            | n) RxLIRATE(<br>P<br>P<br>P<br>P<br>P<br>P<br>P<br>P<br>P<br>P<br>P<br>P<br>P  | Percent) Tota<br>2,23<br>7,24<br>7,24<br>7,24<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8 | Re Court (bite<br>4-320276244<br>RX_OVR<br>0<br>8<br>RX_OVR<br>0<br>0<br>0<br>0  | ) Generator Store<br>ZASD0, etc.<br>ZLS00, etc.<br>RX_DRP_R<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,  | TE<br>TE<br>TE<br>11, 021<br>10, 021<br>11, 021<br>11, 020<br>11, 020  | 5x 3g Count (Tre<br>24.05244.492<br>TX.05X<br>TX.0K<br>847, 511 4225<br>651, 200 425<br>TX.0K<br>841, 513 192<br>051, 202 192  | TX_BPS<br>B3_MB/s<br>B3_MB/s<br>B1_MB/s<br>TX_BPS<br>53_MB/s<br>53_MB/s<br>52_MB/s   | Base Society     Te Performed     Te Performed     Ze Scheme   Performed     Ze Scheme   Performed     Te Luffil,     120%     120%     TK_UTTL     077%     077%   | ang Advanced<br>at Name Ref<br><i>gaza</i> ( New<br><i>gaza</i> | Sequencing H<br>ort Tx Could<br>(Tree (Tree<br>(Tree)<br>(Tree)<br>(TX_DRP)<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | stograms<br>st. 2000<br>0000<br>255,007 255<br>256<br>256<br>256<br>256<br>256<br>256<br>256   | Count<br>smee)<br>200352.057<br>TX_DRP<br>TX_DRP                  | Desposed<br>(frames)<br>2<br>2<br>8<br>0<br>0<br>2<br>8<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Count<br>CNP_PKT<br>0<br>0<br>0<br>0            | Enoped Pains<br>2000<br>EDIL_PKT<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |
|  |  |      | Pod Name<br>Pod Na  | oper N.Come.<br>Tomasi P. Come.<br>J. J. Come.<br>J. Come.  | Jourt         Total Tr Col           CHO2         JL204533           L047         JL204533           C210         JL204533           C210         JL204533           C210         JL204533           RX_CK         RX           R01         R1           R01         R01           R01         R01           R01         R01           R01         RX           R041         402   | Court (bits) 75<br>2522284 8<br>2535544 8<br>2535544 2<br>2535544 2<br>2535544 2<br>2535544 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| L1 Rate (Percent<br>t20, Ethern<br>RX_UTTL<br>1.701<br>1.701<br>1.701<br>1.701<br>1.701<br>1.701<br>0.775 | nt) Roll Rate (<br>Roll Rate (<br>Roll SRR<br>Roll S   | RX_DRP<br>6<br>6<br>6  | Ri Court (bits<br>6, NS, SSG, Per<br>4, SSG, JY, IA<br>RX_OVR<br>0<br>RX_OVR<br>0<br>0   | Centerator St.<br>25,000,452,0<br>21,000,452,0<br>21,000,452,0<br>21,000,452,0<br>21,000,452,0<br>21,000,452,0<br>0,0<br>0,0   | Count (frames)<br>22<br>25<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27   | 8x 3g count (fre<br>JJ202244242<br>JJ20204500<br>TK_OK<br>041,511 425<br>051,200 425<br>TK_OK<br>10,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122,00<br>122, 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Zelow Post     Zelow Post     Zelow Post     Zelow Post     TX_UTTL     T.70%     TX_UTTL     0.77%     0.77%  | Advanced<br>sit Name Bar<br><i>GLTP</i>   New<br><i>GLTP</i>   New<br>TX_ERR<br>0<br>0<br>TX_ERR<br>0<br>0  | Sequencing H<br>off Tra Could<br>(Transmitting Transmitting T   | stograms<br>t: Rx, e<br>sty, e<br>sty, e<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>tx_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty_ovr<br>ty | Count<br>smee)<br>200352.067<br>TX_DRP<br>TX_DRP                  | Dropoed<br>(frames)<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2  | Count<br>CNP_PKT<br>0<br>0<br>CNP_PKT<br>0<br>0 | Enopoed Frame<br>And<br>ECNL, PKT<br>0<br>0<br>0<br>0<br>0<br>0<br>0  |
| D  |  |      | Pod New<br>Pod New<br>Pod New<br>Pod //44<br>Pod //44   | we how the control of the first sector of the sector secto  | Aut Toel tr C<br>2007 223450<br>22007 223450<br>22007 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 | L1 Rate (Percent<br>t20, Ethern<br>RX_UTTL<br>1, 700,<br>t20, Ethern<br>RX_UTTL<br>0, 77%                 | n) 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| <ul> <li>Generator St. 25,000,652,0</li> <li>I.C.000,652,0</li> <li>I.C.000,652,0</li> <li>I.C.000,652,0</li> <li>RX_DRP_R</li> <li>0</li> <li>RX_DRP_R</li> <li>0</li> <li>0</li> </ul> | Count (France,<br>22<br>175<br>180, 11, 62<br>180, 11, 62<br>180, 11, 62<br>180, 11, 62<br>190, 11, 62   | 8.39 Court (7m<br>222224454<br>232024454<br>7K_0K<br>7K_0K<br>7K_0K<br>7K_0K<br>7K_0K<br>7K_0<br>051,202 192   | TX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS<br>EX_BPS | Ease: Second<br>mat/20     TeR:<br>2 conditions: Fort<br>2 conditions: Fort<br>5 conditions: Fort<br>1 . 70%<br>TK_UTTL<br>0 . 77%<br>0 . 77%   | Advanced<br>ist Name   Bar<br><i>ITX</i>   New<br><i>ITX</i>   Ref<br>TX_ERR<br>0<br>0<br>TX_ERR<br>0<br>0  | Sequencing H<br>and Tx Could<br>(Trian 22000<br>(Tx) 22000<br>(TX) DRP<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | stograms<br>et 022<br>(1) 022<br>(2)   | Count<br>smes)<br>2003552469<br>TX_DRP<br>TX_DRP                  | Droposed<br>(frames)<br>2<br>2<br>2<br>8<br>0<br>0<br>2<br>2<br>8<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Court<br>CNP_FKT<br>0<br>CNP_FKT<br>0<br>0      | Propositions<br>(2000<br>EDNLPHT<br>0<br>EDNLPHT<br>0<br>EDNLPHT<br>0<br>0  |
| Pass   | Pass   |      | Pert News<br>9 100 2000000<br>100 2000000<br>100 2000000<br>100 2000000<br>100 20000000<br>100 20000000<br>100 20000000<br>100 20000000<br>100 200000000<br>100 200000000<br>100 200000000<br>100 200000000<br>100 200000000<br>100 2000000000<br>100 2000000000<br>100 2000000000<br>100 2000000000<br>100 2000000000<br>100 2000000000<br>100 2000000000<br>100 20000000000<br>100 20000000000<br>100 20000000000<br>100 200000000000<br>100 200000000000<br>100 2000000000000<br>100 2000000000000<br>100 2000000000000<br>100 2000000000000<br>100 2000000000000<br>100 200000000000<br>100 200000000000<br>100 200000000000<br>100 200000000000<br>100 2000000000000<br>100 2000000000000<br>100 200000000000<br>100 20000000000000<br>100 200000000000<br>100 200000000000<br>100 200000000000<br>100 20000000000000<br>100 200000000000<br>100 200000000000<br>100 200000000000<br>100 20000000000<br>100 2000000000000<br>100 2000000000000<br>100 2000000000000<br>100 200000000000000000<br>100 20000000000000000000000000000000000   | tota komer<br>tota k  | 2utt Toel fr 0<br>2007 72.20453<br>22.20453<br>22.204545<br>2-28 10-10:2<br>RX_OK<br>841,402<br>RX_OK<br>841,402<br>RX_OK<br>841,402<br>RX_OK  | Court (bits) Tr.<br><i>RL3/STARY 2</i><br>-3. Etheran 4<br><i>RX</i> , 8PG<br>25.59244<br><i>RX</i> , 8PG<br>-3. Etheranet<br><i>RX</i> , 8PG<br>-4. Etheranet<br><i>RX</i> , 8PG<br>-4. Etheranet<br><i>RX</i> , 8PG<br>-5.53 HB/s<br>52.52 HB/s<br>52.53 HB/s   | L1 Rate (Percer<br>t20, Ethern<br>RX_UTTL<br>1, 70%<br>t20, Ethern<br>RX_UTTL<br>6, 77%<br>0, 77%         | H) RALL Rate (<br>RALL Rate (<br>RAL_ERR<br>RAL_ERR<br>RAL_ERR<br>RAL_ERR<br>RAL_ERR<br>RAL_ERR<br>0<br>0<br>0<br>0<br>0   | Percent) Tota<br>ZGB<br>ZGB<br>RX_DRP<br>0<br>8<br>RX_DRP<br>0<br>0  | RECOURT (blin<br>IS, NULSEC, PHE<br>SCOUPE (blin<br>RX_OVR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 3 Generator Stores<br>ZLD304623<br>ZLD3046424<br>RX_DRP_R<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,  | Count (Frames)<br>22<br>25<br>75<br>895, 11, 62<br>895, 11, 62<br>11, 62<br>895, 11, 62<br>805, 11, 62 | 8. 3g Court (Yre<br>12.002.44.492<br>12.002.45.997<br>TK_CK<br>641_511_425<br>651_200_425<br>TK_CK<br>7K_CK<br>941_513_192<br>051_202_192  | TX_BPS<br>83 MB/s<br>81 MB/s<br>72 MB/s<br>52 MB/s   | <ul> <li>Ease: Second Seco</li></ul>  | ing Advanced<br>int Name Ref.<br>00001 Aven<br>712/41 L Port<br>TX_ERR<br>0<br>0<br>0<br>0  | Sequencing H<br>ort Tr Could<br>(Tree Could<br>(Tr   | stograms<br>H Roc<br>252,602 122<br>442,602 222<br>TX_OVR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Count<br>smes)<br>200355.069<br>TX_DRP<br>TX_DRP                  | Dreposed<br>(frames)<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2   | Court<br>CNP_FKT<br>0<br>CNP_FKT<br>0<br>0      | Doosed France<br>Proceeding<br>Anno<br>Control Control Control<br>Control Control Control Control<br>Control Control Control Control Control<br>Control Control Control Control Control<br>Control Control |
| Pass   | Pass   |      | Post Nume<br>Post // 4  | ve boom income<br>decimentation<br>decimentation<br>ve boom interface<br>time was 2022-0<br>0 11,000<br>0 1   | 2008 Trool T   | Court (bits) 75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75   | L1 Rate (Percent<br>t20, Ethern<br>RX_UTTL<br>1.70%<br>1.70%<br>RX_UTTL<br>0.77%<br>0.77%                 | n) Roll Rate (<br>Roll Rate (<br>ROLL FAR<br>ROLL FAR<br>ROLL FAR<br>ROLL FAR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | RX_DRP<br>RX_DRP<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | RX_COURT (ben<br>0,000,000,000,000<br>45332,077,000<br>RX_OVR<br>0<br>0<br>RX_OVR<br>0<br>0<br>0   | 3) Generator 30<br>27,000,000,00<br>27,000,000,00<br>8,000,000,00<br>8,000,000,00<br>8,000,000   | Count (frames)<br>22<br>27<br>TE<br>100, 11, 02<br>100, 11, 02<br>100, 11, 02<br>00, 10, 10, 10, 10, 10, 10, 10, 10, 10,   | 8.30 Coult (7m<br>1202244,44<br>13.00035247<br>7K.0K<br>841,011 4255<br>851,200 425<br>7K.0K<br>841,513 192<br>951,202 192   | TX_BPS<br>83 MB/s<br>81 MB/s<br>81 MB/s<br>53 MB/s<br>52 MB/s  | <ul> <li>Ease: Sequences</li> <li>Texty</li> <li>Texty<td>ing Advanced<br/>ist Name Bar B<br/><i>data</i> I (New<br/><i>data</i> I (New<br/>TX_ERR<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Sequencing H<br/>The Course<br/>The Course<br/>The</td><td>Stopans<br/>2) 074<br/>2) 074<br/>21 074<br/>21 22<br/>122<br/>122<br/>122<br/>122<br/>122<br/>122<br/>1</td><td>Count<br/>smea)<br/>200,055,044<br/>202,042,462<br/>TX_DRP<br/>TX_DRP</td><td>0100060<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Count<br/>CNP_PKT<br/>0<br/>0<br/>0<br/>0</td><td>Proceeds Frame<br/>execution<br/>EDN_PKT<br/>0<br/>0<br/>EDN_PKT<br/>0<br/>0<br/>0<br/>0</td></li></ul>   | ing Advanced<br>ist Name Bar B<br><i>data</i> I (New<br><i>data</i> I (New<br>TX_ERR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Sequencing H<br>The Course<br>The  | Stopans<br>2) 074<br>2) 074<br>21 074<br>21 22<br>122<br>122<br>122<br>122<br>122<br>122<br>1  | Count<br>smea)<br>200,055,044<br>202,042,462<br>TX_DRP<br>TX_DRP  | 0100060<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | Count<br>CNP_PKT<br>0<br>0<br>0<br>0            | Proceeds Frame<br>execution<br>EDN_PKT<br>0<br>0<br>EDN_PKT<br>0<br>0<br>0<br>0   |
| Pass   | Pass   |      | Port Next<br>Pert //143<br>Pert //144<br>art acted<br>TFACE<br>therme120<br>therme120<br>therme120<br>therme120<br>therme120  | In the second se  | 2012 Tool Tro<br>1007 1220453<br>6077 1220453<br>6077 1220453<br>6077 12204545<br>6071 12204545<br>6071 12204545<br>6071 12<br>6071 12   | 2004 (346) 70<br>2007 (347) 7<br>2007   | 11 Rate (Percet<br>120, Ethern<br>RX_UTII<br>1, 70%<br>120, Ethern<br>RX_UTII<br>0, 77%                   | n) Roll Rate (<br>Roll Rate (<br>ROLLERR<br>ROLLERR<br>ROLLERR<br>ROLLERR<br>ROLLERR<br>ROLLERR  | RX_DRP<br>0<br>RX_DRP<br>0<br>RX_DRP<br>0  | RX_COURT (black<br>SX_RX_COVR<br>RX_COVR<br>RX_COVR<br>RX_COVR<br>0<br>0<br>0  | 3) Generator 30<br>21,000,002,0<br>21,000,002,0<br>21,000,002,0<br>21,000,000,0<br>0<br>0<br>0<br>0<br>0   | Count (France,<br>22<br>27<br>175<br>176<br>171, 622<br>176<br>176<br>17, 623<br>176<br>17, 623<br>176<br>17, 623  | 9-39 Coult fre<br>120204490<br>1202049297<br>TLOCA<br>041,511 422<br>051,280 425<br>TK.CK<br>041,513 192<br>051,282 192  | TX_RPS<br>TX_RPS<br>E3 MB/s<br>E1 MB/s<br>E3 MB/s<br>E3 MB/s   | <ul> <li>Ease: Sequences</li> <li>Texter</li> <li>Texter</li> <li>Sequences</li> <li>Fort</li> <li>T.K_UTTL</li> <li>T.Y.W</li> <li>T</li></ul>  | Advanced<br>int Name Ref<br>10/07 1 Ant<br>10/07 1  | Sequencing H<br>at Create<br>TAL ALL ALL<br>TX_DRP<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Stoparts<br>5) (Pr<br>5) (Pr<br>5) (Pr<br>7)<br>442.492 (22)<br>TX_OVR<br>0<br>0<br>1X_OVR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Count<br>mine)<br>200352047<br>2022942462<br>TX_DRP<br>TX_DRP     | 0risose()<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Count<br>CMP_PKT<br>0<br>0<br>0<br>0            | Descard Frame<br>Process<br>ANN<br>ANN<br>ANN<br>COL, PKT<br>COL, PKT   |
| Pass   | Pass   |      | Partiese<br>And 24<br>And 24<br>Last cables<br>Ether met22<br>Ether met22<br>Ether met22<br>Ether met22   | In the second se  | 2008         Tools The Case State           2009         712204233           2009         712204233           2010         712204233           2011         712204233           2015         701           2015         701           2015         701           2015         701           2016         701           2017         701           2018         701           2019         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701           2011         701  | 2004 (Met) 70<br>2007 (Me) 70<br>2007   | 11 Rate (Perce<br>120, Ethern<br>RX_UTIL<br>1, 70%<br>120, Ethern<br>RX_UTIL<br>0, 77%<br>0, 77%          | H) Roll Rate (<br>Comparison of the second sec   | RX_DRP<br>0<br>RX_DRP<br>0<br>RX_DRP<br>0<br>RX_DRP<br>0<br>0  | RX_COURT (ben<br>N_NC_STG_APP<br>RX_OVR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 3) Generator St.<br>22,000,000,00<br>21,000,000,00<br>RX_DRP_R<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,<br>0,   | Lount (France,<br>22<br>07<br>TE<br>17, 62<br>17, 62<br>17, 62<br>17, 62<br>17, 62<br>17, 62<br>17, 62<br>17, 62<br>17, 62   | 8.30 Could fire<br><i>LED204.44</i><br><i>TX_OK</i><br>841,511 425<br>951,200 425<br><i>TX_OK</i><br>941,513 192<br>951,202 192  | TX_BPS<br>TX_BPS<br>83 MB/s<br>81 MB/s<br>1X_BPS<br>53 MB/s<br>52 MB/s   | Eanc Source     Techor So   | ing Advanced<br>itt Name / Ream<br>//2449 J. Port<br>TX_ERR<br>0<br>0<br>TX_ERR<br>0<br>0   | Seguencing H<br>and Townson<br>The Annual Construction<br>TX_DRP<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Stopparts<br>5) (Pro<br>5) (Pro<br>5   | Count<br>mark<br>Alka Stader<br>TX_DRP<br>TX_DRP                  | 0 000000000000000000000000000000000000  | CNP_PKT<br>0<br>0<br>0<br>0                     | Encoded Frank<br>Freeda<br>2000<br>ECNL.PKT<br>0<br>0<br>0<br>ECNL.PKT  |
| Pass   | Pass   |      | Parties<br>And 1/4<br>And 1/4<br>Lott Couche<br>Lott C | In the second se  | 2008 Tool Tr<br>1000 2000 2000 2000<br>2000 2000 2000 2000<br>2000 2000  | 2000 (Meta) To<br>2000 (Meta) To  | 11 Rate (Percer<br>120, Ethern<br>8X_UTTL<br>1.70%<br>1.70%<br>1.70%<br>8X_UTTL<br>0.77%<br>0.77%         | *) Poll Ref (<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | RX_DRP<br>RX_DRP<br>RX_DRP<br>RX_DRP<br>0<br>0   | RX COURT (bin)<br>RX 2003 (44)<br>RX 2007 (44)<br>RX 2017 (44)<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0 Generator S<br>IL 000 GEN<br>IL 000 GEN<br>IL 000 GEN<br>RX_DRP_R<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | [Count (Frames)<br>22<br>25<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75  | 9-30 could free<br>2002/44/00<br>2000/2009/2012<br>7K_CK<br>841_511_425<br>865_200<br>841_513_142<br>951_202<br>192<br>192<br>192<br>192   | Strong         Nu           Image: Non-Strain Strain Str   | Base South<br>Base South<br>Tell<br>20000 Food<br>500<br>1.200<br>1.200<br>1.200<br>1.200<br>1.200<br>0.77%   | ing Advanced<br>itt Name Real<br>Real<br>7/2/45  : Port<br>TX.ERR<br>0<br>0<br>0  | Sequencing IH<br>est Transformer<br>(717) 72.000<br>(717) 72.0000<br>(717) 72.00000<br>(717) 72.00000<br>(717) 72.000000000000000000000000000000000000   | Stoparts<br>stoparts<br>s) (Pri<br>School 2, 22<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Stoparts<br>Sto   | Count<br>anne)<br>Walkscher<br>Walkscher<br>T. DRP                | 0100060<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | CNP_PKT<br>0<br>0<br>0<br>0<br>0                | Proped France<br>Process<br>2000<br>EDNLPKT<br>EDNLPKT<br>0<br>0<br>0   |
| Pass   | Pass   |      | Parties<br>And JA<br>Har JA<br>Last cache<br>Ethur net28<br>Ethur net28<br>Ethur net28<br>Ethur net28<br>Ethur net28  | in the figure of the lattice in the figure of the lattice of the  | Autor         Total % C           7         7           8         Court           9         Court  | 2000 (Meta) 70<br>2000 (Meta) 70  | 220, Ethern<br>R2, UTU<br>7, 700<br>7, 700<br>7, 700<br>8, UTU<br>8, UTU<br>8, UTU<br>0, 770<br>0, 771    | <pre>H) Roll Ref (</pre>   | RX_DRP<br>0<br>RX_DRP<br>0<br>0<br>RX_DRP<br>0<br>0<br>0   | Rx Court (him<br>N XX Court (him<br>RX_OVR<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | ) Generator St<br>IL 000 GENE<br>IL 000 GENE<br>RX_DRP_R<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | I Count (Frame),<br>22<br>72<br>75<br>76<br>76<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77<br>77   | 9-39 could fire<br>24002492<br>220032597<br>7K_CK<br>981,971 4255<br>991,200 425<br>7K_CK<br>7K_CK<br>7K_CK<br>7K_CK<br>7K_CK  | TX.0PG<br>888 M9/6<br>888 M9/6<br>888 M9/6<br>888 M9/6<br>888 M9/6<br>888 M9/6<br>888 M9/6<br>888 M9/6   | Bane South  | ing Advanced<br>it Name Ream<br>Ream<br>//244 j. Port<br>TX_ERR<br>0<br>0<br>0  | Bearded II   | 880grow<br>5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7   | Count<br>Hereit<br>Walkscher<br>T. DRP<br>T. DRP                  | 0 0000000<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0   | Court<br>CNP_PAT<br>0<br>0<br>0<br>0            | Encoded France<br>Process<br>ANN<br>ANN<br>ANN<br>ANN<br>COLLPAT<br>0<br>0<br>0<br>0<br>0   |
| Pass   | Pass   |      | Posteen<br>mar (HA)<br>root // (A)<br>root // (A)<br>r | model (1)   | and Tone In C<br>2007 22005<br>2007 22005<br>2007 22005<br>2007 22005<br>2007 22005<br>2007 22005<br>2007 2005<br>2007 2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005<br>2005  | 20445 (3445) 72<br>2022/2024 (2<br>2222/2024 (2<br>2222/2024) (2<br>2222/2  | 120, Ethern<br>8x,UTTI<br>1, 700<br>1, 700<br>1, 700<br>8x,UTTI<br>8x,UTTI<br>0, 770<br>0, 770            | <pre>ty Boll Refer (</pre>   | RX_DRP<br>0<br>0<br>0  | RX COURT (SHIT)<br>2005/2014 000<br>2005/2014 000<br>2007/2014<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0 Generator S<br>I.C. BOLSEL<br>I.C. BOLSEL<br>R.XDRP_R<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | I Count (frame),<br>22<br>57<br>57<br>58<br>58<br>50<br>50<br>51<br>50<br>50<br>51<br>50<br>50<br>51<br>50<br>50<br>51<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   | 9 3 2 0 0 ml ffre<br>9 3 2 0 0 ml ffre<br>12002 8 4 0 ml<br>12002 8 0 ml<br>12002 8 1  | TX_BPS<br>TX_BPS<br>TX_BPS<br>TX_BPS<br>TX_BPS<br>TX_BPS<br>TX_BPS<br>TX_BPS   | <ul> <li>Base Security</li> <li>Base Security</li> <li>Tech V</li> <li>Porter</li> <li< td=""><td>ing Advanced<br/>of Name Res<br/>Res<br/>TX_ERR<br/>0<br/>0<br/>0</td><td>Secured a 1<br/>est 700 - 10</td><td>880g/sms<br/>5) 70 / 2002<br/>5) 70 / 2002<br/>5) 70 / 2002<br/>7 / 2002<br/>7 / 2002<br/>7 / 2002<br/>7 / 2002<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0<br/>0</td><td>Gaar<br/>Seed<br/>Anderstand<br/>TX, DRP<br/>TX, DRP</td><td>Chroped<br/>∂<br/>∂<br/>P_RATE<br/>0 Cots<br/>0 Cots</td><td>Court<br/>ONP_PKT<br/>0<br/>0<br/>0<br/>0</td><td>Proped Pares<br/>Proved<br/>AMD<br/>CADD<br/>CAD<br/>COL, PKT<br/>0<br/>0<br/>ECNL, PKT<br/>0<br/>0</td></li<></ul> | ing Advanced<br>of Name Res<br>Res<br>TX_ERR<br>0<br>0<br>0   | Secured a 1<br>est 700 - 10  | 880g/sms<br>5) 70 / 2002<br>5) 70 / 2002<br>5) 70 / 2002<br>7 / 2002<br>7 / 2002<br>7 / 2002<br>7 / 2002<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | Gaar<br>Seed<br>Anderstand<br>TX, DRP<br>TX, DRP                  | Chroped<br>∂<br>∂<br>P_RATE<br>0 Cots<br>0 Cots | Court<br>ONP_PKT<br>0<br>0<br>0<br>0            | Proped Pares<br>Proved<br>AMD<br>CADD<br>CAD<br>COL, PKT<br>0<br>0<br>ECNL, PKT<br>0<br>0   |
| Pass   | Pass   |      | Parties<br>Parties<br>Parties<br>Parties<br>Statics<br>ethermet2<br>ethermet2<br>ethermet2<br>ethermet2<br>ethermet2<br>ethermet2<br>ethermet2<br>ethermet2   | market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>market<br>marke   | And Tool to Control of   | 2004 (Meta) 70<br>2007 (Meta) 70  | 11 Ret (Proc  | <pre>tv) Rould Route (</pre>   | RX_DRP   | RX COVE (Smith<br>XXX, OVE<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0  | 0 Cenerator 3<br>22.002.442<br>RX_DRP_R<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | TE<br>TE<br>N<br>N<br>11, 022<br>TE<br>TE<br>TE<br>TE<br>TE<br>TE<br>TE<br>TE<br>TE<br>TE  | Bag could fire<br>Internet for the second se  | TX_BPS<br>88 M6/e<br>61 M6/e<br>7X_BPS<br>53 M6/e  | <ul> <li>Baix South</li> <li>Baix South</li> <li>Tell</li> <li>Tell&lt;</li></ul>   | ing, Advance, Advance  | 28-partial print<br>est<br>est<br>TX_CCCC<br>TX_DEP<br>TX_DEP<br>0<br>0<br>TX_DEP<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 980g/sms<br>9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Gant<br>Week<br>Alexandria<br>Alexandria<br>TX, Dep               | Chroped<br>a<br>a<br>b<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c<br>c   | Covit   | Cropped Pares<br>Percent<br>2.00<br>COL.PRT<br>0<br>0<br>0<br>0<br>0<br>0   |

### 6.8 COPP

Test Items	СОРР
Test Content	Test that the device can resist attacks after enabling COPP.
Test Topology	DUTI 1 2 A STC B
Test Steps	<ol> <li>Set up the test environment as shown in the diagram.</li> <li>Configure DUT P1 IP as 100.100.100.100/24 and P2 IP as 200.200.200.200/24.</li> <li>Check the device CPU load.</li> <li>Send packets to the device CPU at line rate via TGA, and check the device CPU load.</li> <li>Test ARP miss, wait for 5 minutes, and check the device CPU load.</li> </ol>
Expected Results	4.5. The CPU utilization of the device is within the normal range.



	Port 1 IP:100.100.100/24, Port 2 IP:200.200.200/24 config interface ip add Ethernet0 100.100.100.100/24
	config interface ip add Ethernet8 200.200.200/24
	TGA sends packets at line rate with the destination MAC as the device CPU MAC and the destination IP as 100.100.100.100. Observe for 5 minutes and capture the average value.
	root@sonic:/home/admin# top top - 10:00:52 up 7:33, 1 user, load average: 0.65, 0.83, 0.88 Tasks: 406 total, 1 running, 402 sleeping, 0 stopped, 3 zombie %Cpu(s): 2.5 us, 2.2 sy, 0.0 ni, 95.1 id, 0.0 wa, 0.0 hi, 0.2 si, 0.0 st MiB Mem : 15160.7 total, 9805.4 free, 3332.4 used, 2022.9 buff/cache
	MIB Swap: 0.0 total, 0.0 free, 0.0 used. 11386.4 avail Mem
	PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND 11627 root 20 0 3829364 850656 228728 S 15.9 5.5 40:55.94 syncd
	8740 root 20 0 263944 32932 12744 S 8.0 0.2 28:23.35 python3
	5615 root 20 0 111012 58524 7400 S 5.0 0.4 16:27.16 redis-server
	5739 root 20 0 104884 21296 10720 S 2 7 0 1 9:42 95 main ny
	5616 root 20 0 85412 38916 7360 S 1.3 0.3 6:44.89 redis-server
	25898 root 20 0 199104 38888 13664 S 1.3 0.3 6:20.35 python3
	8108 root 20 0 17404 10944 6236 S 1.0 0.1 3:17.75 python
Actual Test	13 root 20 0 0 0 0 1 0.3 0.0 0:11.02 rcu_sched
Results	38 root 20 0 0 0 0 S 0.3 0.0 0:02.53 ksoftirqd/5
	849 root 20 0 2985472 67904 55268 S 0.5 0.4 5:08.59 containerd 8112 root 20 0 17804 11164 6312 S 0 3 0 1 0:39 65 pythop
	8741 root 20 0 37148 25340 12252 S 0 3 0 2 2.19 75 python3
	13469 admin 20 0 11004 4564 3980 S 0.3 0.0 0:11.56 vty log.sh
	25894 root 20 0 2426288 186632 20156 S 0.3 1.2 1:19.96 telemetry
	26060 root 20 0 2496040 186292 18228 S 0.3 1.2 1:21.52 dialout_client_
	1679555 root 20 0 11108 4304 3284 R 0.3 0.0 0:00.03 top
	1 root 20 0 100464 11812 8044 S 0.0 0.1 0:08.93 systemd
	2  root  200000  S 0.0000000000000000000000000000000000
	4 root 0 -20 0 0 0 1 0.0 0.0 0.00.00 rcu par gp
	6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-kblockd
	7 root 20 0 0 0 1 0.0 0.0 0:00.11 kworker/0:1-cgroup_destroy
	9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm_percpu_wq
	10 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_rude_
	11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu_tasks_trace 12 root 20 0 0 0 S 0.0 0 0 0:002 88 kaofting $\frac{1}{0}$
	$12 \operatorname{root} rt = 0.000 \mathrm{S} = 0.0000 \mathrm{O} = 0.0000 \mathrm{S} = 0.0000 \mathrm{S} = 0.00000 \mathrm{S} = 0.00000 \mathrm{S} = 0.0000000000000000000000000000000000$
	15 root 20 0 0 0 0 S 0.0 0.0 0.00.00 cpuhp/0
	16 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
	17 root rt 0 0 0 0 S 0.0 0.0 0:00.22 migration/1
	18 root 20 0 0 0 0 S 0.0 0.0 0:02.76 ksoftirqd/1
	20 root 0 -20 0 0 0 1 0.0 0.0 0:00.00 kworker/1:0H-events_highpri
	21  root  20 0 0 0  S 0.0 0.0 0.00.00  cpunp/2 22  root rt  0.0 0  S 0.0 0 0.00023  migration/2
	23 root 20 0 0 0 0 S 0.0 0.0 0:02.67 ksoftirad/2
	25 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-events highpri



26 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3 27 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/3 28 root 20 0 0 0 0 S 0.0 0.0 0:02.47 ksoftirgd/3 30 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H-events highpri 31 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/4 32 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/4 33 root 20 0 0 0 0 S 0.0 0.0 0:02.53 ksoftirgd/4 35 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/4:0H-events highpri 36 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/5 37 root rt 0 0 0 0 S 0.0 0.0 0:00.24 migration/5 40 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/5:0H-kblockd 41 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/6 root@sonic:/home/admin# TGA sends packets at line rate with the destination MAC as the device CPU MAC and the destination IP as 200.200.200.200. After waiting for 5 minutes. check the device CPU load. top root@sonic:/home/admin# top top - 10:01:42 up 7:33, 1 user, load average: 0.43, 0.74, 0.85 Tasks: 410 total, 2 running, 405 sleeping, 0 stopped, 3 zombie %Cpu(s): 2.3 us, 2.1 sy, 0.0 ni, 95.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st MiB Mem : 15160.7 total, 9775.3 free, 3362.3 used, 2023.0 buff/cache MiB Swap: 0.0 total, 0.0 free, 0.0 used. 11357.2 avail Mem PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND 11627 root 20 0 3829364 850656 228728 S 19.9 5.5 41:00.65 syncd 8740 root 20 0 263944 32932 12744 S 7.3 0.2 28:26.36 python3 5615 root 20 0 111012 58352 7400 S 4.0 0.4 16:28.98 redis-server 5616 root 20 0 85412 39116 7360 S 3.3 0.3 6:45.67 redis-server 5739 root 20 0 104884 21296 10720 S 3.0 0.1 9:44.04 main.py 25898 root 20 0 199104 38888 13664 S 1.7 0.3 6:21.08 python3 1683142 root 20 0 1790756 64456 29572 S 1.7 0.4 0:00.05 docker 8108 root 20 0 17404 10944 6236 S 1.0 0.1 3:18.11 python 1302 root 20 0 3384108 130064 50576 S 0.7 0.8 4:08.10 dockerd 8741 root 20 0 37148 25340 12252 S 0.7 0.2 2:20.02 python3 11717 root 20 0 406040 24904 13564 S 0.7 0.2 0:25.88 orchagent 145 root 20 0 0 0 0 I 0.3 0.0 0:00.69 kworker/9:1-events 8107 root 20 0 19080 12524 6280 S 0.3 0.1 0:53.01 python 9756 root 20 0 29808 24896 8928 S 0.3 0.2 0:04.21 supervisord 14376 300 20 0 1568560 133248 11712 S 0.3 0.9 0:01.88 zebra 25894 root 20 0 2426288 186632 20156 S 0.3 1.2 1:20.05 telemetry 26060 root 20 0 2496040 186292 18228 S 0.3 1.2 1:21.60 dialout client 1682959 root 20 0 11104 4228 3212 R 0.3 0.0 0:00.02 top 1683213 root 20 0 6212 1984 1732 R 0.3 0.0 0:00.01 du 1 root 20 0 100464 11812 8044 S 0.0 0.1 0:08.93 systemd 2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd 3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu gp 4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu par gp 6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-kblockd 7 root 20 0 0 0 0 1 0.0 0.0 0:00.11 kworker/0:1-cgroup destroy 9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm percpu wq 10 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu tasks rude 11 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu tasks trace 12 root 20 0 0 0 0 S 0.0 0.0 0:02.88 ksoftirgd/0 13 root 20 0 0 0 0 1 0.0 0.0 0:11.04 rcu sched



	14 root rt 0 0 0 0 S 0.0 0.0 0:00.05 migration/0
	15 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0
	16 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/1
	17 root rt 0 0 0 0 S 0.0 0.0 0:00.22 migration/1
	18 root 20 0 0 0 S 0.0 0.0 0:02.76 ksoftirqd/1
	20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/1:0H-events highpri
	21 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/2
	22 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/2
	23 root 20 0 0 0 S 0.0 0.0 0:02.67 ksoftirqd/2
	25 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/2:0H-events_highpri
	26 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/3
	27 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/3
	28 root 20 0 0 0 S 0.0 0.0 0:02.47 ksoftirqd/3
	30 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/3:0H-events_highpri
	31 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/4
	32 root rt 0 0 0 0 S 0.0 0.0 0:00.23 migration/4
	33 root 20 0 0 0 S 0.0 0.0 0:02.53 ksoftirqd/4
	35 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/4:0H-events_highpri
	36 root 20 0 0 0 S 0.0 0.0 0:00.00 cpuhp/5
Test results	PASS
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Keinarks	

#### 6.9 ZTP

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Test Items	ZTP
Test Content	Test that the switch supports ZTP (Zero Touch Provisioning).
Test Topology	PC DUT1
Test Steps	<ol> <li>Export the current configdb file (skip if already exported), and delete the current configdb file.</li> <li>On PC1, enable the DHCP server to configure option 67, enable the TFTP server containing the ZTP configuration file, and enable the HTTP server containing the configdb.</li> <li>Reboot the DUT and check whether it obtains the ZTP configuration and configdb.</li> </ol>
Expected Results	2. The ZTP configuration and configdb file can be obtained.
Actual Test Results	Default configuration: Enabled state. root@sonic:/home/admin# cat /host/ztp/ztp_cfg.json {



"admin-mode": true, "ztp-json-local": "/mnt/usb/ztp.json" } Delete configdbfile rm /etc/sonic/config db.json Reboot Check the downloaded configdb file. Mar 4 14:58:07.994214 sonic INFO sonic-ztp[1167229]: Downloading provisioning data from tftp://192.168.1.150/ztp.json to /var/run/ztp/ztp data opt67.json Mar 4 14:58:08.353372 sonic INFO sonic-ztp[1167229]: Starting ZTP using JSON file /var/run/ztp/ztp data opt67.json at 2025-03-04 06:58:08 UTC. Mar 4 14:58:08.354179 sonic INFO sonic-ztp[1167229]: Processing configuration section 01-configdb-json at 2025-03-04 06:58:08 UTC. Mar 4 14:58:09.569112 sonic INFO sonic-ztp[1178666]: configdb-json: Downloading config db.json file from 'tftp://192.168.1.150/N9500 config db.json'. Mar 4 14:58:09.650892 sonic INFO sonic-ztp[1178666]: configdb-json: Configuration change detected. Removing ZTP configuation from Config DB. Mar 4 14:58:09.651051 sonic INFO sonic-ztp[1178666]: configdb-json: Stopping ZTP discovery on interfaces. Mar 4 14:58:28.316779 sonic INFO sonic-ztp[1178666]: configdb-json: Reloading config db.json to Config DB. Mar 4 14:58:28.624094 sonic INFO sonic-ztp[1182422]: Running command: rm -rf /tmp/dropstat-\* Mar 4 14:58:28.647855 sonic INFO sonic-ztp[1182422]: Disabling container monitoring ... Mar 4 14:58:28.666403 sonic INFO sonic-ztp[1182422]: Stopping SONiC target ... Mar 4 14:58:48.979418 sonic INFO sonic-ztp[1182422]: Running command: /usr/local/bin/sonic-cfggen -j /etc/sonic/init cfg.json -j /tmp/config dl.json --write-to-db Mar 4 14:58:49.246952 sonic INFO sonic-ztp[1182422]: Running command: /usr/local/bin/db migrator.py -o migrate Mar 4 14:58:49.431069 sonic INFO sonic-ztp[1182422]: Running command: /usr/local/bin/sonic-cfggen /etc/sonic/sonic version.yml -d -y -t /usr/share/sonic/templates/sonic-environment.j2,/etc/sonic/sonic-environment Mar 4 14:58:50.558117 sonic INFO sonic-ztp[1182422]: Restarting SONiC target ... Mar 4 14:58:50.642379 sonic INFO sonic-ztp[1182422]: Enabling container monitoring ... Mar 4 14:58:50.667017 sonic INFO sonic-ztp[1182422]: Updating hostname ... Mar 4 14:58:51.749871 sonic INFO sonic-ztp[1182422]: Reloading Monit configuration ... Mar 4 14:58:51.770692 sonic INFO sonic-ztp[1182422]: Reinitializing monit daemon Mar 4 14:58:52.036079 sonic INFO sonic-ztp[1185892]: user info loaded. Mar 4 14:58:52.157316 sonic INFO sonic-ztp[1167229]: Processed Configuration section 01-configdb-json with result SUCCESS, exit code (0) at 2025-03-04 06:58:08 UTC. Mar 4 14:58:52.158124 sonic INFO sonic-ztp[1167229]: Checking configuration section 01-configdb-json result: SUCCESS, ignore-result: False. Mar 4 14:58:52.169687 sonic INFO sonic-ztp[1167229]: ZTP successfully completed at 2025-03-04 06:58:52 UTC. root@sonic:/etc/sonic# show ztp ZTP Admin Mode : True **ZTP** Service : Inactive **ZTP Status : SUCCESS** ZTP Source : dhcp-opt67 (eth0) Runtime : 01m 42s



	Timestamp : 2025-03-04 06:58:52 UTC
	ZTP Service is not running 01-configdb-json: SUCCESS
Test results	PASS
Remarks	