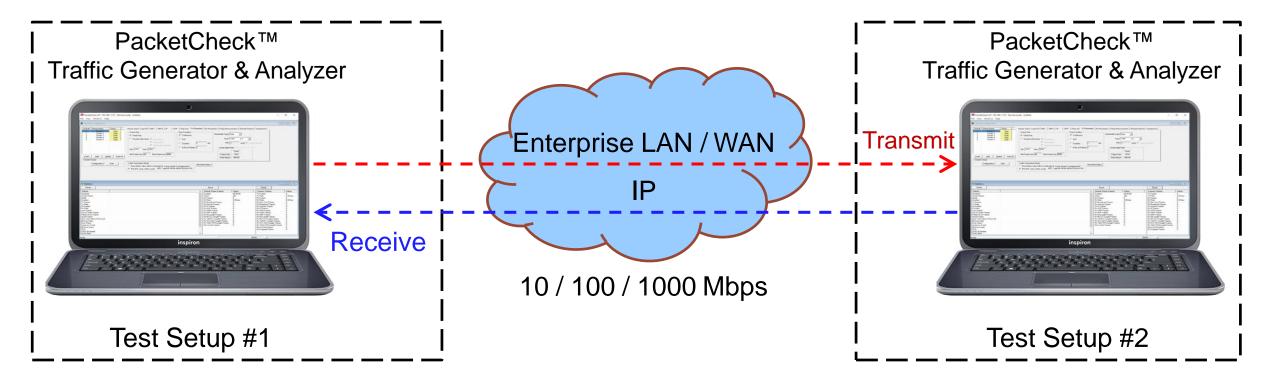
PacketCheck[™]– Software Ethernet Tester

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PacketCheck[™]- Ethernet / IP Test Tool



- PacketCheck[™] uses the PC's network interface card to transmit and receive Ethernet or IP packets
- Bit Error Rates (BER) and throughputs and Delay, Impairment (up to 500 Mbps) can be easily tested
- Generates multi-stream Ethernet / IP / UDP traffic as well single-stream physical layer traffic
- Measures end to end performance such as bit error rate, total packets, packet loss, out of sequence packets, errored packets, Round Trip Delay, and One Way Delay (within the same PC)

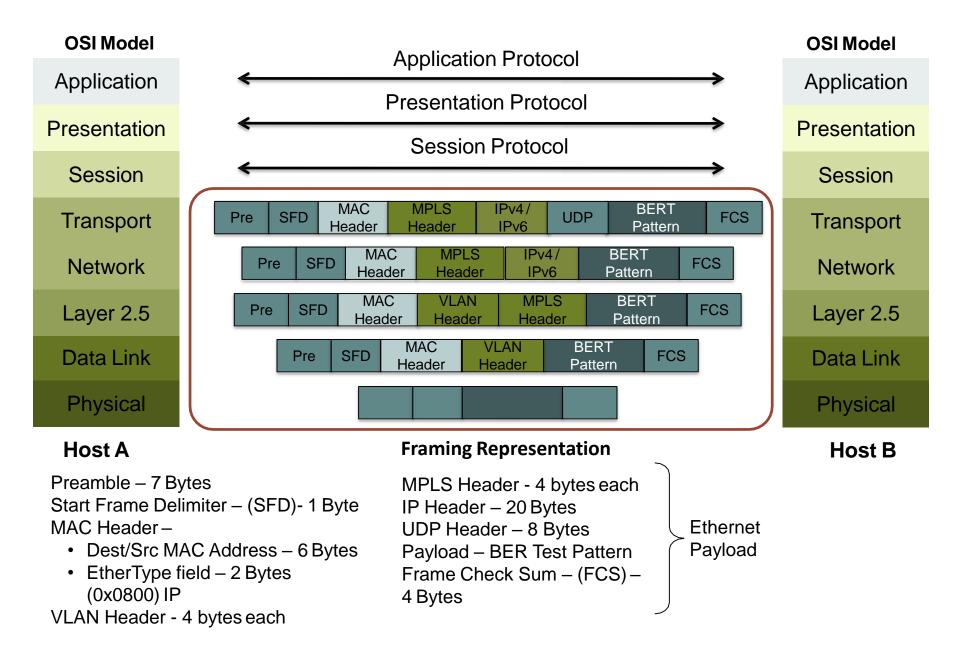
Applications

- What is the maximum IP bandwidth between your branch offices?
- What is the round-trip delay between two IP addresses with microsecond accuracy?
 Between two Ethernet MAC addresses?
- Is your LAN switch dropping packets? Introducing errors? Blocking traffic because it's overloaded?
- Is your CAT 5 or CAT 6 wiring deteriorating? Introducing errors?
- Need to find out your bandwidth between enterprise locations? Traffic overload?

Throughput? Error rates? Delay?



Testing at Layer 1, 2, 3, & 4 of OSI Model



Communications

Main Features

- Capability to test Ethernet traffic of up to 500 Mbps bandwidth. Supports minimum line rate of 64 Bps
- Generate full duplex traffic at any of the four layers (Layer1, Layer2 (Ethernet) with stacked VLAN/ MPLS, Layer3 (IPv4), Layer4 (UDP)) with on-demand bandwidth
- Create multiple streams of traffic for network testing from layer 2, 3, or 4
- Bit Error Rate Testing for checking networks for dropped packets, out-of-order, non-test frames, and so on. Write packet errors to an error log
- Determine Round Trip Delay (RTD) between two IP addresses or two Ethernet MAC addresses with microsecond accuracy
- Determine One Way Delay (OWD) between two NIC cards on the test PC with microseconds accuracy
- Record test traffic in binary and/or PCAPNG or NTAR file format
- Playback PCAPNG files for test traffic generation. Either recorded from test BERT traffic or recorded traffic of interest
- Record non-test packets to a PCAPNG file. i.e. Non-BERT traffic related packets
- Provides options to record unidentified network traffic which does not belongs to any user defined stream into a PCAP or HDL file format and analyze the recorded traffic in Wireshark® or PacketScan[™] application
- Generate and verify PRBS patterns such as QRSS, 26-1, 29-1, 211-1, 215-1, 220-1, & 223-1
- Measures bit error rate, synchronization status, throughput, packet loss, out of order packets, round trip delay, etc.
- Impair traffic such as inserting, deleting or changing bytes
- Supports jumbo frames in addition to all normal frame sizes from 64 bytes to 1518 bytes



Main Features (Contd.)

- Ability to append Zero-Padding bytes to outgoing frames to test router interoperability with packet sizes less than 60 bytes, ensuring that routers handle small packets correctly.
- Customizable protocol headers like MAC source / destination address, EtherType field, IP source / destination address, and UDP source / destination port
- Create multiple full-duplex streams per PacketCheck[™] easily
- Each stream can be configured as Transmit Only, Receive Only, or Transmit and Receive
- Ability to copy from one stream to another (both one-to-one copy and one-to-many copy) to quickly configure multiple streams
- Ability to resolve IP Address to MAC address (based on Address Resolution Protocol (ARP)) for all streams with a single click, so that all streams are configured properly before starting the test
- Populate switch/router MAC tables and routing tables using the Resolve all streams feature before the starting the test to avoid unnecessary flooding
- Independently define each stream to operate as Layer2 (Ethernet) or Layer3 (IP) or Layer4 (UDP)
- For Layer3 or Layer4 streams, analyzes the received payload based on the IP or UDP length and ignore any MAC padded bytes added in transit
- Define the frame size/rate to be generated for each stream Independently
- Jumbo frames also supported (depending on the NIC card support for Jumbo frames)



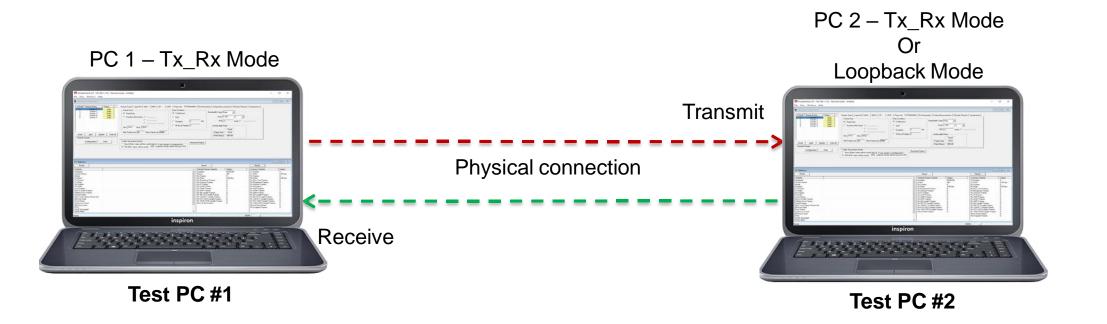
Main Features (Contd.)

- Up to 500 Mbps total combined rate (all streams combined) is possible
- The transmission rate can be configured to operate in 2 modes Burst mode or Inter Frame Gap (IFG) mode
- In Burst mode, each stream's rate can be set in Mbps, Kbps, etc.
- In IFG mode, the Inter Frame gap in milliseconds can be configured. The estimated rate achievable based on the IFG and the frame size is displayed for user convenience
- Burst mode tries to generate traffic with the configured rate, but also as smoothly and evenly distributed so that the Device Under Test (DUT) node buffers do not overflow due to a temporary spike in the peak traffic
- Frame sizes from 22 bytes up to 1518 supported
- Use a full-featured version or a loopback only version (with address swapping) at node endpoints
- Capability to generate/respond to ARP requests, making it easy to work with Routers
- Provides user configurable Packet Length for OWD and RTD
- Generate reports in XML or PDF formats
- Support to configure IP Protocol Type from 0 to 255
- Multiple Instances run multiple instances on a single PC to utilize all available NIC cards



BER Test Setup at Layer 1

Scenario 1: Source & destination PCs connected using Ethernet cable

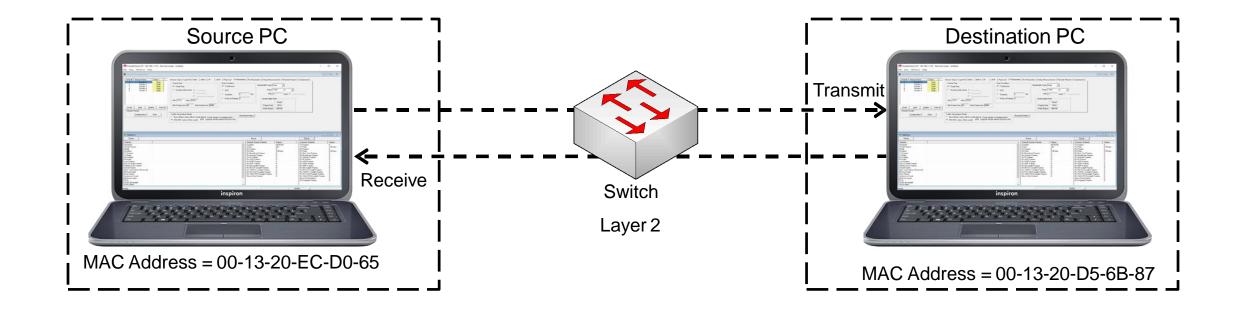


• The PCs are connected using an Ethernet cable. The payload includes PRBS and fixed patterns



BER Test Setup at Layer 2

Scenario 2: Source & destination PCs on the same LAN, connected by a switch

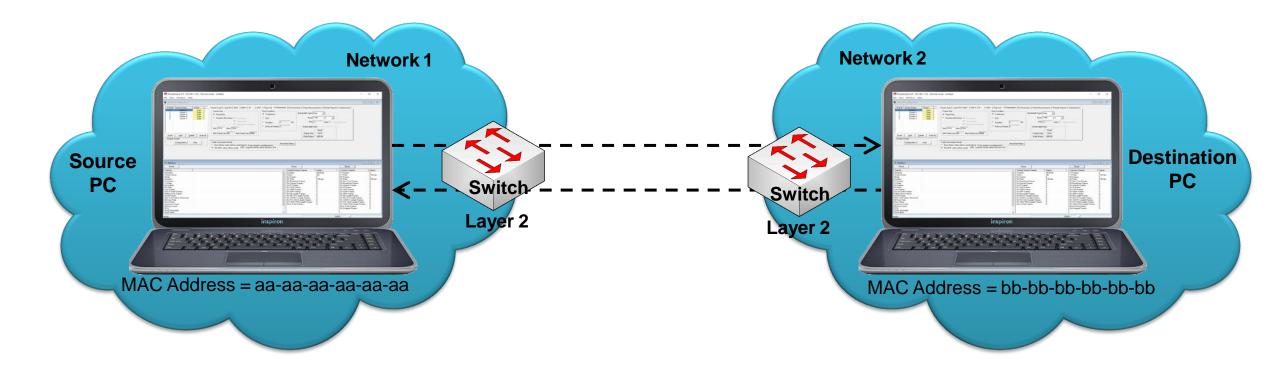


• The PCs are connected through a switch, which routes the packets based on the MAC address



BER Test Setup at Layer 2

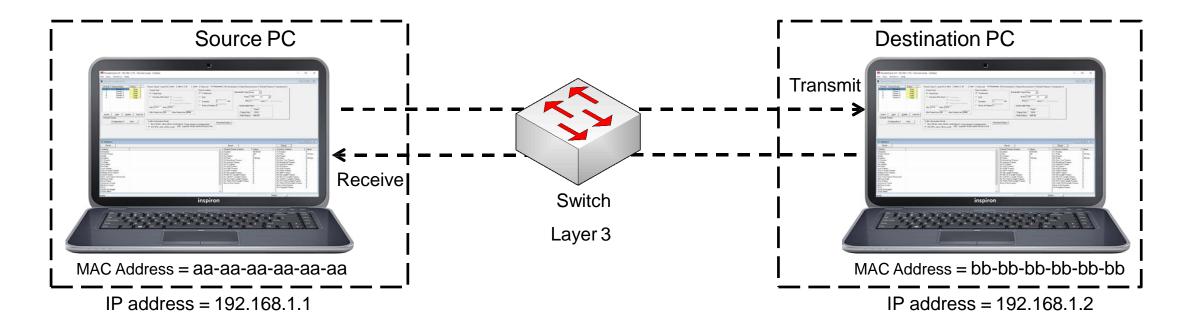
Scenario 3: Source & destination PCs located in different LANs connected through multiple switches





BER Test Setup at Layer 3 / 4

Scenario 4: Source & destination PCs are located within the same IP Network

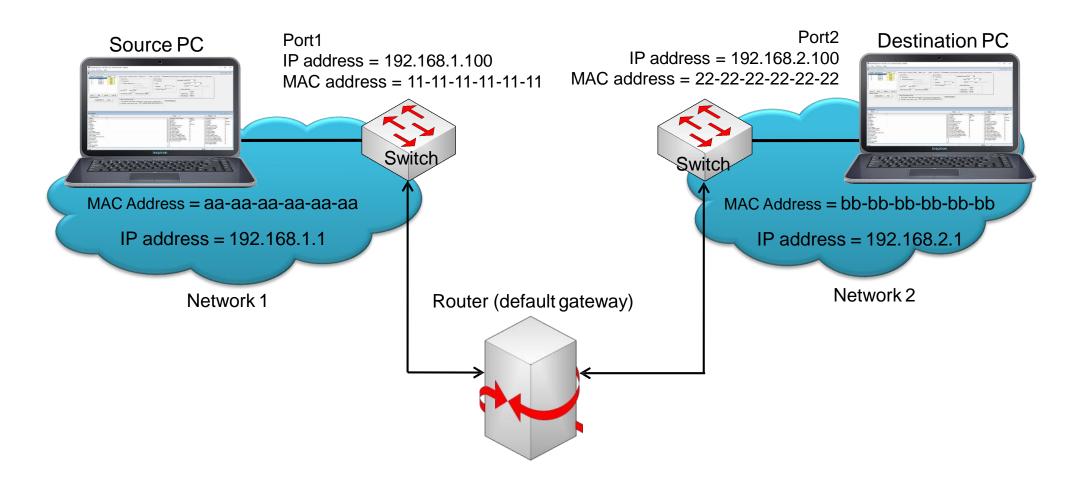


• Packets route between the source and destination PCs based on both the IP address and MAC address



BER Test Setup at Layer 3 / 4

Scenario 5 : Source & destination PCs located on different IP Networks



• Source and destination PCs are located in different IP networks connected via routers



Initialization Configuration

PacketCheck -	Initial config	_	×
	Mode Selection		
I/F Selection			
Intel(R) Ethernet Co	onnection I217-V [192.168.1.23]		-
	Start Packet Check		
Name	\Device\NPF_{C0469574-F48E-4698-97DF-B237037F1F9A}		
Description	Intel(R) Ethernet Connection I217-V		
MAC Address	fc-aa-14-9c-fa-b9		
IP Address	192.168.1.23		
Link Type	Ethernet (802.3)		
Current Link Speed	1000 Mbps		
Max Payload Size	1500 bytes		
Media State	Connected		

- PacketCheck[™] operates in normal and loopback mode
- Verify interface, IP and MAC address



• PacketCheck[™] PC configuration file is automatically generated containing initial configuration parameters displayed in the GUI

Stream Types Selection

Normal Configuration	
SI No# Stream Name Status 1 Stream1 Start	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
	- Stream Type
	Type User Defined User Defined File Based
	FileType HDL
	File Name
Insert Add Delete Start/Stop	
Default Stream	
Configuration Start	Traffic Generation Mode Resolved Status Apply Stream Parameters IFG (IFG value will be used) Figure Content of the status Apply Stream Parameters



File Based Stream Type

- Allows to specify a source file for the stream, this source file can be PCAP or HDL file format
- In File Based option the default mode is set to Tx and all the other configurations will be disabled as it is not required in File Based option

Normal Configuration	
SI No# Stream Name Status 1 Stream1 Start	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
	Stream Type Type File Based File Based FileType HDL File Name C:\Program Files (x86)\GL Communication
Insert Add Delete Start/Stop	Traffic Generation Mode
	Burst (Rate value will be used) Resolved Status Apply Stream Parameters Apply Stream Parameters



User Defined Stream Type

• Allows to define the stream parameters such as Layer, Ethernet/IP/UDP Headers, Frame Size, Rate,

Payload etc. and the PacketCheck[™] generates/analyzes the stream traffic as per these parameters.

Normal Configuration	
SINo# Stream Name Status 1 Stream1 Start	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
	Stream Type
	File Based
	FileType HDL File Name
Configuration Start	Traffic Generation Mode Resolved Status Apply Stream Parameters IFG (IFG value will be used) Fig (IFG value will be used) Apply Stream Parameters



Layer 1 Single-stream Generation

PacketCheck (I/F - 192.168 File <u>V</u> iew <u>W</u> indows <u>H</u> el		node - Cinfig2								1	- 0
Normal Configuration											
SINO# Stream Name		Stream Type Layer/ Dir Tx_Rx Layer 2 Ethern Layer 2.5 None Layer 3 None Layer 4 None Traffic Generation M © Burst (Rate value © IFG (IFG value w	Layer Layer set to de will be used) Resolved S	2.5, 3, 4 ard None		ix Paramete	Defau	easurements F It Stream atistics	, c	Cumulative Statistics	
Statistics							/				
Reset Show Do	efault Stream		PacketCheck Reset		Other Reset PacketCheck Rx		NIC Rx	Other Rx	Cumulative Statistics	Tx	Bx
StreamId Stream Name Mode Duration Tx Total Frames Tx RTD Frames Tx RTD Frames Tx RTD Frames Rx RTD Frames Rx RTD Frames Rx RTD Frames Rx RTD Frames Rx RTD Frames Rx RTD Frames Cut 0f Order Frames Pattern Error Frames Good Frames Non Test Frames Received Bt Error Rate Error Status SyncLoss Count Bt Error Count RTD OWD (Average) OWD (Min) OWD (Max) UDP Checksum Error Frames Error UDP Checksum Error Frames Error UDP Checksum Error Frames Error Jatus	1 Stream1 TX_RX 00:00:15 622 622 493:32 Kbps 0 615 615 615 615 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Statistics	Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames ARP Request Frames Unicast Frames Unicast Frames Unicast Frames 8 toadcast Frames 8 Length Frames 8 24 Length Frames 128_255 Length Frames 512_1023 Length Frames 512_1023 Length Frames 512_1023 Length Frames 512_1023 Length Frames 512_1023 Length Frames 512_1023 Length Frames 512_1024 Length Frames 5121024_1518 Length Frames 5131 Length Frames 5131 Length Frames 5140 Length Frames 5140 Length Frames 51518 L	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	741175 0.00 bps •NA- 741175 0 0 0 741175 0 0 0 741175 0 0 0 0 741175 0 0 0 0 741175 0 0 0 0 0 741175 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36807 0.00 bps -NA- 36557 7065 29490 2 0 0 68 182 0 36 663 108 57 2599 3976 2599 3976 2508 10457 2599 3976 2508 10510 0 5topped 00.54:15 Idle	140059 0.00 bps NA- 133015 83632 43781 2 5600 0 182 38 6824 8655 55100 76304 13225 55100 76304 13225 48092 23047 13225 3886 25936 3886 25936 3886 25936 3886 25936 3886 25936 3	105078 0.00 bps -NA- 1962 19 33 0 0 1910 102745 293 78 103028 2050 0 103039 82 8 16 11 1922 0 0 Stopped 00.54:15 Idle	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Unicast Frames Unicast Frames Multicast Frames 64 Length Frames 1024_511 Length Frames 512_1023 Length Frames 1024_1518 Length Frames > 1518 Length Frames	37429 494.95 Kbps 0 37179 7065 29490 2 0 622 68 182 0 36 37285 108 10457 6657 2593 3976 2608 11132 0	986927 488.89 Kbps 0 876767 83651 43814 2 5600 743700 102927 331 6902 111683 798940 76304 116274 48174 48174 48174 25972 3897 769555 0



Layer 2 / 3 / 4 Multi-stream Generation

	lp													-
Normal Configuration														
SI Noti Stream Name 1 Stream1 2 Stream3 3 Stream3 Single Stre Selection Insert Add D Default Stream Configuration Selection		op Traffic Gr Gr Bust	ype ype User Definer sed ype HDL ame eneration Mode (Rate value will be	d 💌	PayLoad Tx Parameters Rx	Parameters Delay Measureme	nts Periodic Repo	xts Impairments						
Statistics		C IFG (I	FG value will be u	sed)										
Reset 🔽 Show [efault Stream					PacketCheck Reset	NIC Reset	Other Reset						
	efault Stream	Stream2	Stream3						NIC Tx	NIC Rx	Other Rx	Cumulative Statistics	Tx	Bx
Statistics treamId tream Name fode	Stream1 1 Stream1 TX_BX	2 Stream2 TX_BX	3 Stream3 TX_BX			Default Stream Statistics Total Frames Rate Non Test Frames		PacketCheck Rx 741175 0.00 bps -NA-	NIC Tx 36807 0.00 bps -NA- 36557	NIC Rx 140059 0.00 bps -NA- 133015	Other Rx 105078 0.00 bps -NA- 1962	Total Frames Rate Non Test Frames	Tx 67383 20.15 Mbps 0 37306	Rx 987055 489.31 Kbps 0 876895
tatistics treamId tream Name tode uration × Total Frames × BRAT Frames × Rate	Stream1 1 Stream1 TX_RX 00:00:18 749 749 494.93 Kbps	2 Stream2	3 Stream3 TX_RX 00:00:18 14912 14912 9.81 Mbps			Default Stream Statistics Total Frames Rate Non Test Frames IIP Frames UDP Frames TCP Frames ICMP Frames	PacketCheck Tx 0 0.00 bps	PacketCheck Rx 741175 0.00 bps	36807 0.00 bps -NA- 36557 7065 29490 2	140059 0.00 bps -NA- 133015 83632 43781 2	105078 0.00 bps -NA- 1962 19 33 0	Total Frames Rate Non Test Frames IIP Frames UDP Frames TCP Frames ICMP Frames	67383 20.15 Mbps 0 37306 7065 29490 2	987055 489.31 Kbps 0 876895 83651 43814 2
tatistics treamId tream Name ode uration x Total Frames x BRT Frames x Rate x RTD Frames x OWD Frames x Total Frames	Stream1 1 Stream1 TX_BX 00:00:18 749 749 749 494.93 Kbps 0 0 743 743 743	2 Stream2 TX_RX 00:00:18 14915 14915	3 Stream3 TX_RX 00:00:18 14912 14912			Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames Other L4 Protocol Frames	PacketCheck Tx 0 0.00 bps	PacketCheck Rx 741175 0.00 bps -NA-	36807 0.00 bps -NA- 36557 7065 29490 2 0 0 68	140059 0.00 bps -NA- 133015 83632 43781 2 5600 0 182	105078 0.00 bps -NA- 1962 19 33 0 0 1910 1910 102745 293	Total Frames Rate Non Test Frames IIP Frames UDP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames	67383 20.15 Mbps 0 37306 7065 29490 2 0 749 68	987055 489.31 Kbps 0 876895 83651 43814 2 5600 743828 102927
talistics reamId reamName ode uration Total Frames & Rate & RTD Frames & RTD Frames & Total Frames & ERT Frames & BERT Frames & Rate & RTD Frames & KTot Strames	Stream1 1 Stream1 TX_RX 00:00:18 749 749 749 749 0 0 0	2 Stream2 TX_RX 00:00:18 14915 14915	3 Stream3 TX_RX 00:00:18 14912 14912 9:81 Mbps 0 0 0			Default Stream Statistics Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other Frames Broadcast Frames Unicast Frames	PacketCheck Tx 0 0.00 bps	PacketCheck Rx 741175 0.00 bps •NA. 741175 0 0 0 0 741175 0 0 0 741175 0	36807 0.00 bps -NA- 36557 7065 29490 2 0 0 68 182 0 366 3 3663	140059 0.00 bps -NA- 133015 83632 43781 2 5600 0 182 38 6824 8655 55100	105078 0.00 bps •NA- 19 33 0 0 1910 102745 293 78 103028 2050	Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other Frames Broadcast Frames Unicast Frames	67383 20.15 Mbps 0 37306 7065 29490 2 0 749 68 88 182 29827 36 67239	987055 489.31 Kbps 0 876895 83651 43814 2 5600 743828 102927 331 6902 111683 799068
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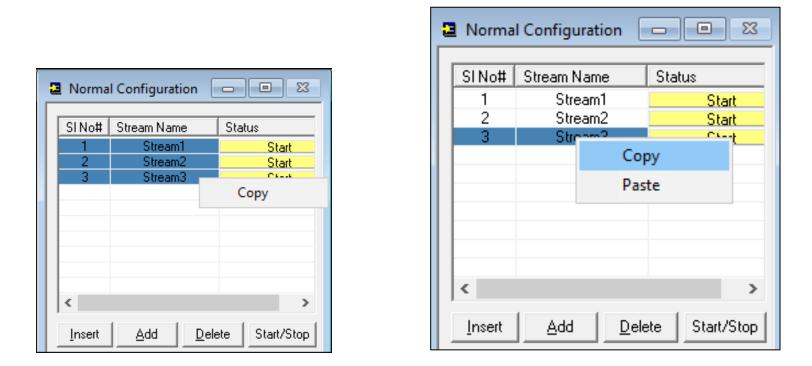
Add / Insert / Delete Streams

	8	Norma	I Configuration	
		SI No#	Stream Name	Status
		1	Stream1	Start
Inserting Stream		→ 2	Stream2	Start
(3	Stream3	Start
Added Stream ≺		4	Stream4	Start
		5	Stream5	Start
		<		>
		<u>I</u> nsert	<u>A</u> dd <u>D</u> ele	ete Start/Stop

- PacketCheck[™] allows for multi-stream generation
- Each stream can be configured to Tx, Rx or both Tx_Rx in layer 2, layer 3, and layer 4



Copy and Paste Streams



 Provides options to copy from one stream to another (both one-to-one copy and one-to-many copy) to quickly configure multiple streams



MAC / IP / UDP Configurations

	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad
	Layer 2
	Source MAC Addr fc-aa-14-9c-bf-99 Use I/F Addr
	Destination MAC Addr FC-AA-14-9C-BF-99 Resolve
Layer	EtherType 00-00 User defined
Dir Tx_Rx 💌	
	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
Layer 2 Ethernet	MPLS Stack 3
Layer 2.5 MPLS <	
	Label 564564 CoS 1 TTL 128
Layer 3 IP	MPLS #2 MPLS #3 Label 765765 Cos 5 TTL 128 Label 234234 Cos 7 TTL 128
Layer 4 UDP 🚽	Label 765765 CoS 5 TTL 128 Label 234234 CoS 7 TTL 128
	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
	□ Source □ □ □ Increment Identification □
	Source IP Address 192 . 168 . 1 . 88 Use I/F Address Destination IP addresss 192 . 168 . 1 . 176 Ping Initial Value
	Subnet Mask 225 225 0 Default Gateway 0 0 Enable 0
	IP Spoofing
	Enable Start 0 End 0 TOS/DS 00 TTL 128 Protocol 17
	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad
	Source Port 4000
*	
	Destination Port 5000
	Configure Checksunt 00 00



Payload

Stream Type Layer/Dir MAC MPLS IP UDP PayLoad	Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
Source Source Type Fixed Pattern Fixed Pattern PRBS Pattern QRSS AB CD EF	 Enable Sequence Number Up Count Up and Down Count Enable Magic Pattern 7a-39-68-47-34-62-4b-5f-47-4c-00-00-00 Default Enable Payload Length

Stream Type Layer/Dir MAC MPLS IP UDP PayLoad	Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments
Source Source Type PRBS Pattern PRBS Pattern QRSS Invert Pattern	 Enable Sequence Number Up Count Up and Down Count Enable Magic Pattern 7a-39-68-47-34-62-4b-5f-47-4c-00-00-00 Default Enable Payload Length

Payload Source Types -

- Fixed Patterns pattern repeats throughout the packet's payload. Configure test pattern of 2 bytes. Eg: AB-CD, BD-EF, and so on to achieve pattern sync
- PBRS Patterns generates PRBS patterns
 e.g. QRSS, 2⁶-1, 2⁹-1, 2¹¹-1, 2¹⁵-1,
 2²⁰-1, and 2²³-1

Tx and Rx Parameters

- Tx streams can be set to transmit frame with fixed / random sizes, specific duration, count, IFG, and rate
- Rx streams can be set to generate Binary, HDL (GL proprietary), PCAP (Wireshark®) file formats, and BERT log files
- Stop conditions to limit the fixed / PBRS pattern file transmission and logging of the received patterns to a defined file
- Zero-Padding bytes can be appended to outgoing frames to test router interoperability with packet sizes less than 60 bytes, ensuring that routers handle small packets correctly

Stream Type Layer/Dir MAC MPLS IP I	UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments	
Frame Size Fixed Size Random (Min-Max) Increasing Decreasing Statistical Distribution Min 68 Max 8996 Min Frame Len 68 Max Frame Len 8996 Min Frame Len 68 Max Frame Len 8996 Min Frame Len 8996 Min Frame Len 68 Max Frame Len 8996 Min Frame Len 8996 Min Frame Len 8996	Min B8 Max 1514 Max 1514 Min Tx frame size with padding = 120 Max Tx frame size with padding = 120	▼ Take From File
Stream Type Layer/Dir MAC MPL ✓ Record To Binary File C:\Program ✓ Generate Bert Log C:\Program Record To File C None		airments
Traffic Generation Mode Traffic Generation Mode Surst (Rate value will be used) () IFG (IFG value will be used)	Resolved Status Apply Stream Parameters	

Loopback Mode

 PacketCheck[™] can operate in Loopback mode.
 PacketCheck[™] can perform loopback at the Ethernet, IP and UDP levels

🧱 PacketCheck (I/F -192.168.)	1.23) - Loopback mode - Untitled
<u>File View Windows H</u> elp	
Loopback Configuration	
Layer Selection	
Layer 2 Ethernet 💌	
Layer 3 IP 🖃	
Layer 4 UDP 💌	
Stop	
🛱 Statistics	
Reset	
Statistic	
StreamId	0
Stream Name	LoopbackStream
Mode	Loopback
Rx Frames	199 0.02 Mbas
Rx Rate Tx Frames	0.03 Mbps 199
Tx Rate	0.03 Mbps
Frames Dropped	0



Statistics

Normal Mode

Reset 🔽 Show D	efault Stream			
Statistics		1		
StreamId	1	2	3	4
Stream Name	Stream1	Stream2	Stream3	Stream 4
Mode	TX BX	TX BX	TX BX	TX BX
Duration	00:01:16	00:01:16	00:01:16	00:01:16
Tx Total Frames	3077	55647	59683	60010
Tx BEBT Frames	3077	55647	59683	60010
Tx Bate	488.24 Kbps	8.84 Mbps	9.52 Mbps	9.53 Mbps
Tx BTD Frames	0	0	0	0
Tx OWD Frames	Ő	Ő	Ő	Ő
Rx Total Frames	3091	6132	6132	6132
Rx BERT Frames	3091	6132	6132	6132
Rx Rate	491.17 Kbps	976.27 Kbps	976.27 Kbps	976.27 Kbps
Rx RTD Frames	0	0	0	0
Rx OWD Frames	0	0	0	0
Lost Frames	0	0	0	0
Out Of Order Frames	0	0	0	0
Pattern Error Frames	0	0	0	0
Good Frames	0	0	0	0
Non Test Frames Received	0	0	0	0
Bit Error Rate	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Error Status	SYNC	SYNC	SYNC	SYNC
SyncLoss Count	0	0	0	0
Bit Error Count	0	0	0	0
RTD	-NA-	-NA-	-NA-	-NA-
OWD (Average)	-NA-	-NA-	-NA-	-NA-
OWD (Min)	-NA-	-NA-	-NA-	-NA-
OWD (Max)	-NA-	-NA-	-NA-	-NA-
UDP Checksum Error Frames	0	0	0	0
Zero UDP Checksum Packet	0	0	0	0
HDL/PCAP File Recording	Idle	Idle	Idle	Idle
Binary File Recording Status	Idle	Idle	Idle	Idle

Loopback Mode

E Statistics	
Reset	<u> </u>
Stream Name	
StreamId	0
Stream Name	LoopbackStream
Mode	Loopback
Rx Frames	7756
Rx Rate	0.03 Mbps
Tx Frames	7756
Tx Rate	0.03 Mbps
Frames Dropped	0
Ready	

- Receive (Rx) and Transmit (Tx) statistics in normal and loopback modes
- Options: Tx & Rx frames, bit error rates, sent frames, lost frames, out of order frames, pattern error, good frames, non-test frames received, error status, error count, sync loss count, frames dropped, impairments introduced into the outgoing traffic, UDP checksum error frames, and zero UDP checksum packets

Delay Measurements

- PacketCheck[™] can measure One-Way Delay (OWD), calculating the delay at the receiving end in µsec
- Also, PacketCheck[™] can be configured to measure the average Round Trip Delay [RTD] value of each packet in µsec
- OWD and RTD provides user configurable frame length, minimum frame length, maximum frame length or can define any value within the range between 68

Normal Configuration	
SI No# Stream Name Status 1 Stream1 Start 2 Stream2 Start 3 Stream3 Start Image: Insert Add Delete Start/Stop	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments Measurement Type One Way Delay None Round Trip Delay One Way Delay WD FrameLength 63 Minimum One Way Delay Range from 63 to 8996 Minimum
Default Stream	
Configuration Start	Traffic Generation Mode Resolved Status Apply Stream Parameters IFG (IFG value will be used) IFG (IFG value will be used)

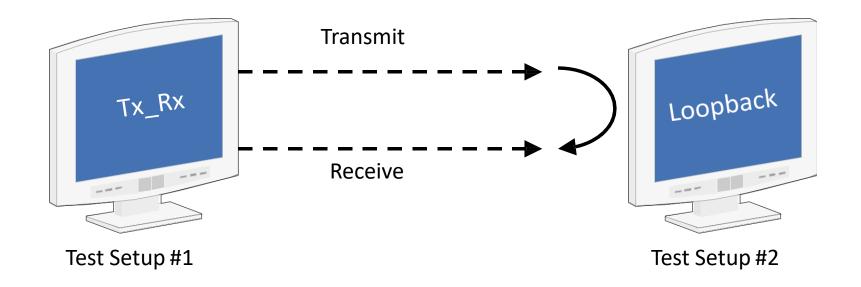


One Way Delay (OWD)

Norma	l Configuration		
SI No# 1 2 3 3	Stream1 Stream2 Stream3	Status Start Start Start	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Delay Measurements Periodic Reports Impairments Measurement Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type One Way Delay Impairments Impairments Impairments Impairments Impairment Type Impairment Type Impairments Impairments Impairments Impairments Impairment Type Impair
			Traffic Generation Mode Resolved Status Apply Stream Parameters IFG (IFG value will be used) Fig (IFG value will be used) Fig (IFG value will be used)



Round Trip Delay (RTD)



- Calculates the average Round Trip Delay with microsecond resolution
- RTD is the time taken for a packet to travel to the remote end and back to the source
- RTD calculated using 2 PacketCheck[™] applications one at the local end running in Tx_Rx (Transmit and Receive) mode and another at the remote end running in loopback mode



Round Trip Delay (RTD)

Norma	l Configuration		
SI No# 1 2 3	Stream Name Stream1 Stream2 Stream3	Status Start Start Start	Stream Type Layer/Dir MAC MPLS IP UDP PayLoad Tx Parameters Rx Parameters Delay Measurements Periodic Reports Impairments Measurement Type Round Trip Delay Enable Tx Tx RTD FrameLength 56 Minimum Enable Rx Range from 56 to 8996
<u>I</u> nsert Default	Add Dele	te Start/Stop	
	Configuration	Start	Traffic Generation Mode Resolved Status Apply Stream Parameters IFG (IFG value will be used) Fig (IFG value will be used) Apply Stream Parameters



Run-time Impairment Generation

Stream Type Layer/Dir MAC MPLS IP	UDP PayLoad Tx Paramet	eters Rx Parameters Delay Measurements Periodic Reports Impairments
Impairment Type INSERT BYTES Options Bytes to insert 4 Byte Offset 0 Skip Before Impair 1	Impairment Duration C Repeat 1 C Continuous Activate	DELETE BYTES INSERT BYTES AND OR XOR

Impairments can be introduced in outgoing traffic using various impairment types and duration. Supports
various types of impairments - DELETE BYTES, INSERT BYTES, AND, OR, & XOR. Impairments can
be introduced at specific intervals or can be set to continuous insertion on each stream



Impairments (Contd.)

The following Impairment Types are supported in PacketCheck™:

Delete bytes:

Deletes 'X' number of bytes at specified offset for every 'Y' packets sent out for the stream. Repeat this for limited number of times or repeat continuously.

E.g.: 20 bytes being deleted from every 11th frame sent at an offset of 18 bytes which will be repeated 500 times

Impairment Type - DELETE BYTES	
Options	-Impairment Duration
Byte count 20	Repeat 500
Byte Offset 18	C Continuous
Skip Before Impair 10	Activate

Insert bytes

Insert 'X' number of bytes at specified offset for every 'Y' packets sent out for the stream. Repeat this for limited number of times or repeat continuously.

E.g.: "ABCD" **being** inserted within the frame at an offset of 14 bytes in every alternate frame, which will be repeated 500 times.

-Impairment Type - INSERT BYTES	
Options	Impairment Duration
Bytes to insert ABCD	Repeat 500
Byte Offset 14	C Continuous
Skip Before Impair 1	Activate



Impairments (Contd.)

Logical AND

Modify a byte at specified offset for every 'Y' packets sent out for the stream. Modification is done by doing logical AND with the user specified Hex byte. Repeat this for limited number of times or repeat continuously.

E.g.: 56th byte of every 17th frame being ANDed with 00 which will be repeated 20 times.

Impairment Type - AND	
Options	Impairment Duration
AND with 00	Repeat 20
Byte Offset 56	C Continuous
Skip Before Impair 16	Activate

Logical OR

Modify a byte at specified offset for every 'Y' packets sent out for the stream. Modification is done by doing logical OR with the user specified Hex byte. Repeat this for limited number of times or repeat continuously.

E.g.: 21st byte of every 6th frame being ORed with FF which will be repeated continuously.

Impairment Type OR	
Options	-Impairment Duration
OR with FF	C Repeat 20
Byte Offset 21	Continuous
Skip Before Impair 5	Activate



Impairments (Contd.)

Logical XOR

Modify a byte at specified offset for every 'Y' packets sent out for the stream. Modification is done by doing logical XOR with the user specified Hex byte. Repeat this for limited number of times or repeat continuously.

E.g.: 36th byte of every 22nd frame being XORed with 55 which will be repeated 30 times.

Impairment Type - XOR	
Options	Impairment Duration
XOR with 55	Repeat 30
Byte Offset 36	C Continuous
Skip Before Impair 21	Activate



Default Stream Configuration

All incoming Ethernet frames not belonging to any of the user defined streams are treated as default stream

PacketCheck (I/F -192.168.1.28) - Normal e View Windows Help	mode - Untitled									- 0
Normal Configuration										
SI No# Stream Name Status 1 Stream1 Stat. 2 Stream2 Stat. 3 Stream3 Stat.	Stream Type Layer/Dir MAC MPLS IP Stream Type User Defined File Based	UDP PayLoad Tx Parameters Rx F	°arameters Delay	Measurements Peri	iodic Reports	Impairments	:			
Insert Add Delete Start/St Default Stream Configuration Start	op File File ✓ PacketCheck Statistics (Record To ○ None ○ HDL ○ File ○ But ○ IFG	C None		86) \GL Communica	<u></u>	⊂ None ⊂ HDL □	ttics (Record T	>	<	
Statistics										- 0
Reset Show Default Stream		PacketCheck Reset	NIC Reset	Other Beset						
			NIC Reset	Other Reset	LNIO T					
istics		Default Stream Statistics	PacketCheck Tx	PacketCheck Rx	NIC Tx	NIC Rx	Other Rx	Cumulative Statistics	Tx	Rx
istics		Default Stream Statistics Total Frames	PacketCheck Tx 0	PacketCheck Rx 0	0	0	0	Total Frames	0	0
istics and a minimum and a		Default Stream Statistics Total Frames Rate	PacketCheck Tx 0 0.00 bps	PacketCheck Rx 0 0.00 bps	0 0.00 bps	0 0.00 bps	0 0.00 bps	Total Frames Rate	and the second sec	
stics mld mld mn Name		Default Stream Statistics Total Frames	PacketCheck Tx 0	PacketCheck Rx 0	0	0	0	Total Frames	0 0.00 bps	0 0.00 bps
stics Ind mld m Name		Default Stream Statistics Total Frames Rate Non Test Frames IP Frames	PacketCheck Tx 0 0.00 bps -NA-	PacketCheck Rx 0 0.00 bps -NA-	0 0.00 bps -NA-	0 0.00 bps -NA-	0 0.00 bps -NA-	Total Frames Rate Non Test Frames	0 0.00 bps	0 0.00 bps 0
tics mld m Name ion Nal Frames		Default Stream Statistics Total Frames Rate Non Test Frames	PacketCheck Tx 0 0.00 bps -NA- 0	PacketCheck Rx 0 0.00 bps -NA- 0	0 0.00 bps -NA- 0	0 0.00 bps -NA- 0	0 0.00 bps -NA- 0	Total Frames Rate Non Test Frames IP Frames	0 0.00 bps	0 0.00 bps 0 0
tics Ind mId m Name ion Ital Frames IRT Frames ate		Default Stream Statistics Total Frames Rate Non Test Frames IIP Frames UDP Frames TCP Frames ICMP Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0	0 0.00 bps -NA- 0 0	0 0.00 bps -NA- 0 0	0 0.00 bps -NA- 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames ICMP Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0
tics Ind		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames IGMP Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0	Total Frames Rate Non Test Frames IIP Frames UDP Frames ICMP Frames IGMP Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0
tics Ind		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0
tics mld m Name ion Name iSP Frames RT Frames ste D Frames VD Frames		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames APP Request Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0
tics in the second seco		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames APP Response Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames ARP Response Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0
tics Ind		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames UDP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames APP Request Frames APP Response Frames Other Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0 0.000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames ARP Response Frames Other Itames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tics ind		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other L4 Protocol Frames Broadcast Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames ARP Response Frames Broadcast Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tics ind ind in Name in All Frames RT Frames te D Frames Val Frames Val Frames se D Frames D Frames D Frames Val Prames Se D Frames Val Frames Se		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames UDP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames APP Response Frames Other Frames Broadcast Frames Unicast Frames	PacketCheck Tx 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other Frames Broadcast Frames Unicast Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tics mild m Name b tion table frames table f		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames APR Request Frames Other Frames Broadcast Frames Unicast Frames Multicast Frames Multicast Frames	PacketCheck Tx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0 00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames ICMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other Frames Broadcast Frames Unicast Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tics ind mName ion Name ion Id Frames Id Frames de D Frames WD Frames VD Frames ate D Frames AD Frames ate D Frames ind D		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames ARP Response Frames Other Frames Broadcast Frames Unicast Frames AL ength Frames E 4 Length Frames	PacketCheck Tx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other Frames Broadcast Frames Unicast Frames Multicast Frames 64 Length Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tics Ind		Default Stream Statistics Total Frames Rate Non Test Frames IIP Frames UDP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames Other Frames Broadcast Frames Unicast Frames Multicast Frames 64 Length Frames 65 127 Length Frames 65 127 Length Frames	PacketCheck Tx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Bx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames ICMP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames ARP Request Frames Broadcast Frames Unicast Frames Hullicast Frames 64 Length Frames 65 127 Length Frames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tics ind		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames TCP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames ARP Request Frames Other L4 Protocol Frames ARP Request Frames Broadcast Frames Unicast Frames 64 Length Frames 65 127 Length Frames 128,255 Length Frames 128,255 Length Frames	PacketCheck Tx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Rx 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.000 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames Other L4 Protocol Frames Other L4 Protocol Frames ARP Response Frames Other Frames Broadcast Frames Unicast Frames 64 Length Frames 65_127 Length Frames 128, 255 LengthFrames	0 0.00 bps 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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tics tics tics tics tics tics tics tics		Default Stream Statistics Total Frames Rate Non Test Frames UDP Frames UDP Frames ICMP Frames ICMP Frames Other L4 Protocol Frames ARP Response Frames Other L4 Protocol Frames ARP Response Frames Unicast Frames Broadcast Frames 64 Length Frames 55_127 Length Frames 128_256 Length Frames 256_511 Length Frames 512_1023 Length Frames 512_1023 Length Frames	PacketCheck Tx 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PacketCheck Bx 0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps -NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps NA- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Frames Rate Non Test Frames IP Frames UDP Frames TCP Frames IGMP Frames IGMP Frames Other L4 Protocol Frames ARP Request Frames APR Response Frames Unicast Frames Unicast Frames Multicast Frames Multicast Frames 51 27 Length Frames 128_255 Length Frames 512_1023 Length Frames 512_1024 Length Frames 512_1031 Length Frames 512_11 Length Frames	0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.00 bps 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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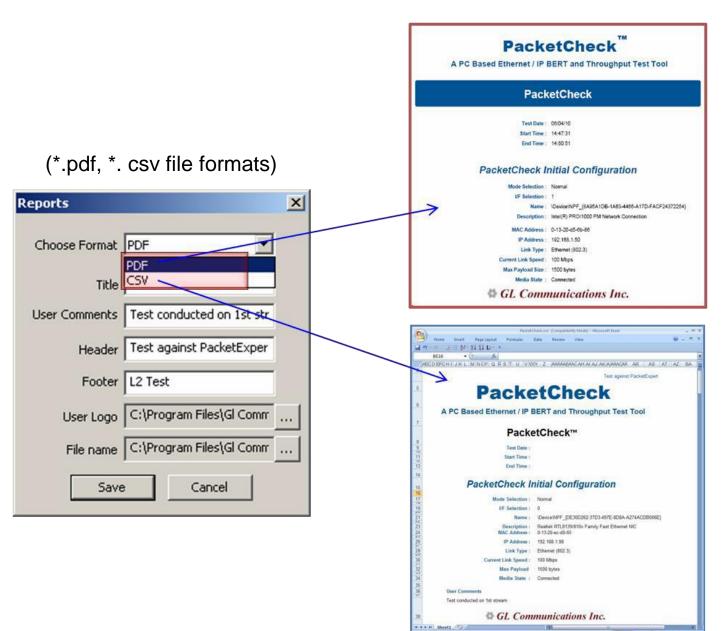
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35

Report Generation





Thank you!

