

Thu Jul 08 04:16:44 PDT 2021

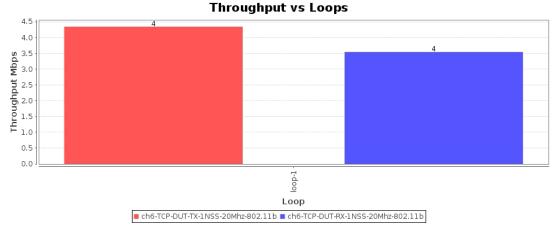
Test Setup Information										
	Name	advanced-02								
	Software Version	eap102-2021-06-25-pending- b6743c3.tar.g	Hardware Version	eap102						
	Model Number	eap102	02 Serial Number							
Device Under Test	SSIDs	ssid_wpa2_5g ssid_wpa2_2g something something								
	Passwords									
	BSSIDs	90:3c:b3:9d:6a:01 90:3c:b3:9d:6b:01								
	Notes	[BLANK]								

# Objective

This test measures the performance over distance of the Device Under Test. Distance is emulated using programmable attenuation and a throughput test is run at each distance/RSSI step and plotted on a chart. The test allows the user to plot RSSI curves both upstream and downstream for different types of traffic and different station types.

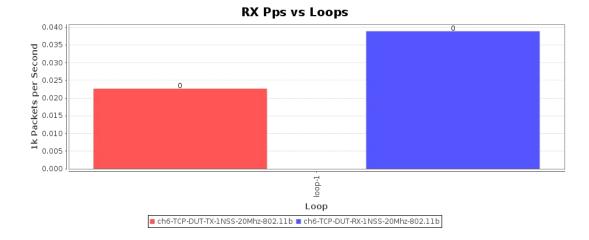
Throughput for each different traffic type. Datasets with names ending in '-LL' will include the IP, TCP, UDP and Ethernet header bytes in their calculation. For Armageddon traffic only, low-level throughput includes the Ethernet FCS and preamble. Other datasets report 'goodput' for the protocol.





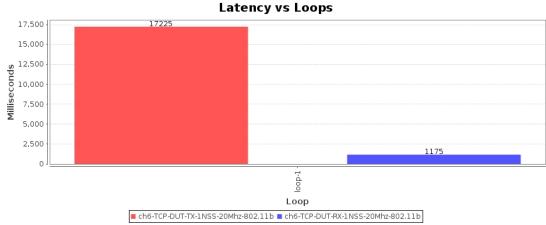
Pps throughput for each different traffic type. The values are estimated packets-per-second over the DUT, but some protocols such as TCP make this difficult to know for certain, so the value is extrapolated.

CSV Data for RX Pps vs Loops



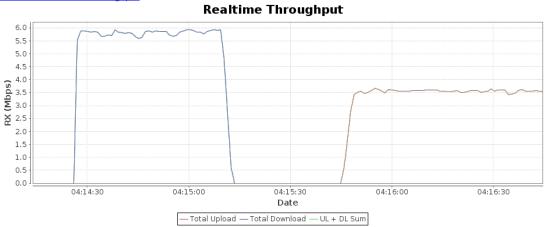
Latency for each different traffic type. If opposite-direction traffic is non-zero, then round-trip time will be reported. Otherwise, one-way latency will be reported.

#### CSV Data for Latency vs Loops



Realtime Graph shows summary download and upload RX Goodput rate of connections created by this test. Goodput does not include Ethernet, IP, UDP/TCP header overhead.

## CSV Data for Realtime Throughput



## Test Information

	Message
Starting Rate	vs Range test with: 2 iterations.

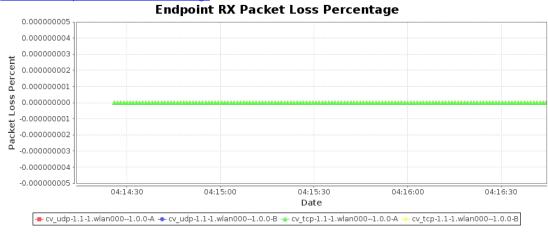
Channe	Frequency	Security	NSS	Cfg-Mode	Bandwidth	Pkt	Traffic-Type	Direction	Atten	Rotation	Duration	Offered-1m	Rx-Bps	Rx-Bps-1m	Rx-Bps-LL	Rx-Bps-3s	RSSI	Tx-Failed	Tx-Failed%	Tx-Rate	Rx-Rate	Rpt-Mode	Rpt-Mode-Brief
6	2437	WPA2	1	802.11b	20	MTU	TCP	DUT-TX	NA	NA	60	7.566 Mbps	4.364 Mbps	4.344 Mbps	4.354 Mbps	4.411 Mbps	-32	0 / 43617	0	11 Mbps	11 Mbps	802.11b	802.11b
6	2437	WPA2	1	802.11b	20	MTU	TCP	DUT-RX	NA	NA	60	3.606 Mbps	2.792 Mbps	3.543 Mbps	3.56 Mbps	3.541 Mbps	-33	1 / 22310	0.004	11 Mbps	11 Mbps	802.11b	802.11b

Brief csv report, may be imported into third-party tools.

	Step Index	Position [Deg]	Attenuation [dB]	Throughput [Mbps]	Beacon RSSI [dBm]	Data RSSI [dBm]
	0	NA	0	4.36	-30	-32
ſ	1	NA	0	2.79	-31	-33

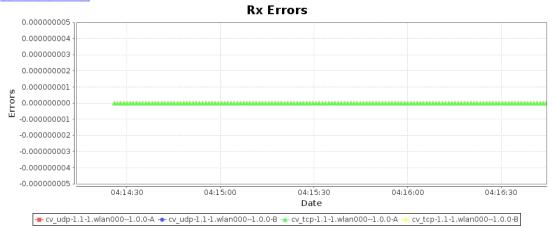
Packet Loss Percentage graph shows the percentage of lost packets as detected by the receiving endpoint due to packet gaps. If there is full packet loss, then this will not report any loss since there will be no gap to detect.

#### CSV Data for Endpoint RX Packet Loss Percentage



Error Graph shows occurances of packet errors.

## CSV Data for Rx Errors



Test configuration and LANforge software version					
Path Loss	10				
Requested Speed	85%				
Requested Opposite Speed	0				
Multi-Conn	1				
Armageddon Multi-Pkt	1000				
ToS	0				
Duration:	1 min (1 m)				
Settle Time:	1 sec (1 s)				

Send Buffer Size:	OS Default
Receive Buffer Size:	OS Default
Channels	AUTO
Spatial Streams	AUTO
Bandwidth	AUTO
Attenuator-1	1.1.3034
Attenuation-1	0+50
Attenuator-2	0
Attenuation-2	0+50950
Turntable Chamber	0
Turntable Angles	0+45359
Modes	802.11b
Packet Size	MTU
Security	AUTO
Traffic Type	TCP
Direction	DUT Transmit, DUT Receive
Upstream Port	1.1.eth1 Firmware: 0. 6-1 Resource: ct523c-ccb0
WiFi Port	1.1.wlan000 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct523c-ccb0
Outer Loop is Attenuation	false
Show Events	true
Auto Save Report	true
Build Date	Mon 07 Jun 2021 07:26:45 AM PDT
Build Version	5.4.3
Git Version	a02ee42f17056fc2425a66b79be72767ca431a0b

Key Performance Indicators CSV

Generated by Candela Technologies LANforge network testing tool.  $\underline{www.candelatech.com}$ 

