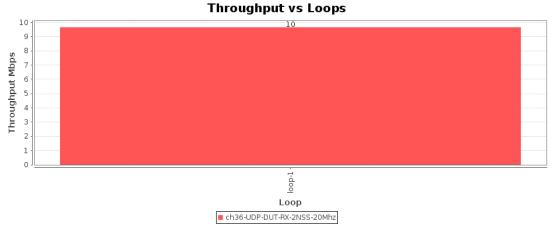
	Test Setup Information									
	Name	basic-01								
	Software Version	ecw5410-1.1.0.tar.gz	Hardware Version	ecw5410						
Device	Model Number	ecw5410	Serial Number	3c2c99f44e77						
Under Test	SSIDs	ssid_wpa2_5g ssid_wpa2_2g [] ssid_wpa3_mixed_eap_2g ssid_wpa2_eap_2g ssid_wpa3_eap_2g								
	Passwords	something something [] mixed 2 3								
	BSSIDs	3c:2c:99:f4:4e:79 3c:2c:99:f4:4e:78 [] 3c:2c:99:f4:4e:78 3a:2c:99:f4:4e:78 3e:2c:99:f4:4e:78								
	Notes	[BLANK]								

Objective

The Candela WiFi data plane test is designed to conduct an automatic testing of all combinations of station types, MIMO types, Channel Bandwidths, Traffic types, Traffic direction, Frame sizes etc... It will run a quick throughput test at every combination of these test variables and plot all the results in a set of charts to compare performance. The user is allowed to define an intended load as a percentage of the max theoretical PHY rate for every test combination. The expected behavior is that for every test combination the achieved throughput should be at least 70% of the theoretical max PHY rate under ideal test conditions. This test provides a way to go through hundreds of combinations in a fully automated fashion and very easily find patterns and problem areas which can be further debugged using more specific testing.

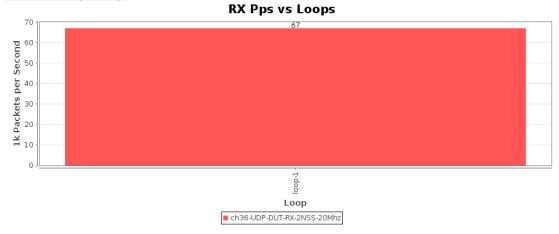
Throughput for each different traffic type. Datasets with names ending in '-LL' will include the IP, TCP, UDP and Ethernet header bytes in their calculation. For Armageddon traffic only, low-level throughput includes the Ethernet FCS and preamble. Other datasets report 'goodput' for the protocol.





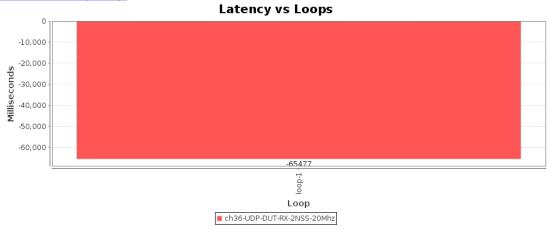
Pps throughput for each different traffic type. The values are estimated packets-per-second over the DUT, but some protocols such as TCP make this difficult to know for certain, so the value is extrapolated.

CSV Data for RX Pps vs Loops



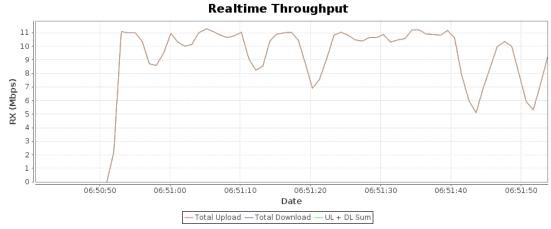
Latency for each different traffic type. If opposite-direction traffic is non-zero, then round-trip time will be reported. Otherwise, one-way latency will be reported.

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 dataplane test with: 1 iterations.

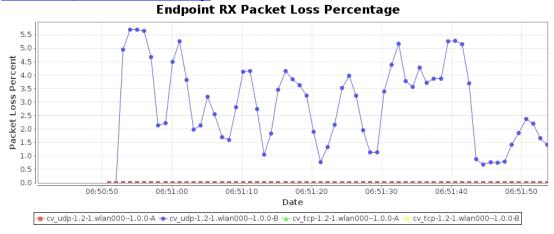
Char	nel Frequenc	y Security N	ISS Cfg-M	Node Bandwid	th Pk	t Traffic-Type	Direction	Atten	Rotation	Duration	Offered-1m	Rx-Bps	Rx-Bps-1m	Rx-Bps-LL	Rx-Bps-3s	RSSI	Tx-Failed	Tx-Failed%	Tx-Rate	Rx-Rate	Rpt-Mode	Rpt-Mode-Brief
36	5180	WPA2 2	AUTO	20	60	UDP	DUT-RX	NA	NA	60	9.935 Mbps	9,713 Mbps	9,667 Mbps	32,223 Mbps	10,682 Mbps	-60	2496 / 4369413	0.057	65 Mbps	6 Mbps	802.11an	802.11n

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	9.71	-60	-60

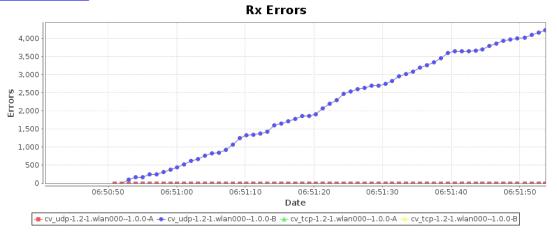
Packet Loss Percentage graph shows the percentage of lost packets as detected by the receiving endpoint due to packet gaps. If there is full packet loss, then this will not report any loss since there will be no gap to detect.

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	0kbps
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	2
Bandwidth	20
Attenuator-1	0
Attenuation-1	0+50950
Attenuator-2	0
Attenuation-2	0+50950
Turntable Chamber	0
Turntable Angles	0+45359
Modes	Auto
Packet Size	60
Custom Packet Size	88
Security	AUTO
Traffic Type	UDP
Direction	DUT Receive
Upstream Port	1.1.eth2 Firmware: 0x80000aef, 1.1876.0 Resource: ct523c-0b67
WiFi Port	1.1.wlan000 Firmware: 10.4b-ct-9984-xtH-13-774502ee5 Resource: ct523c-0b67
Outer Loop is Attenuation	false
Show Events	true
Auto Save Report	true
Build Date	Fri 28 May 2021 09:54:57 AM PDT
Build Version	5.4.3
Git Version	e6a6e20f12a47cefe6de9acbad2570cea4adf844

Key Performance Indicators CSV

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

