

Watch ports and stations with the Monitor Port plugin.

Goal: Display a bandwidth meter for ports and stations.

You can display a series of meters for one or more ports with a nice demo window for traffic speed. For this demonstration, we have configured a station, an upstream port, and a Layer-3 connection to generate traffic.



1.

Single port display

- 2. The simplest example for port monitoring is showing only one station.
- 3. We will start our Layer-3 connection.

•	LA	Nforge Ma	nager Ver	sion(5.4.2)									
Control Reporting Tear Off Info Plugins													
	Chamber	√iew	<u>S</u> top	All Restar	rt Manager	R	efresh	HELP					
VoIP/RTP VoIP/RTP Endps F	File-IO Resource I	Mgr DUT	Profiles Tr	affic-Profiles Aler	ts Warnings	+							
Status Port Mgr	Layer-3	L3	Endps	Layer 4-7	Armageo	ldon	WanLink	(S					
Rpt Timer: fast (1 s) 🔻 Go Test Manager all 💌 Select All Start + Stop - Quiesce Clear													
View 0 - 500		▼ Go		Displa	ay Cr <u>e</u> ate I	Mo <u>d</u> ify De	ele <u>t</u> e						
		- Cross Conne	ects for Select	ed Test Manager —									
Name	Type State	Pkt Rx A	Pkt Rx B	Bps Rx A	Bps Rx B	Rx Drop % A	Rx Drop % B	Drop P					
cv_tcp-1.1-1.sta010011.0.0 L	F/TCP Stopped	220	0	7,420,208	0	27.869	0						
cv_udp-1.1-1.sta010011.0.0 L	F/UDP Stopped	0	0	0	0	0	0						
								•					
Logged in to: localhost:4002 as:	Admin												

For more information see Generating Traffic to a Switched Network

4. After starting the Layer-3 connection, click on the Port Mgr tab; you will see your connection ports highlighted.

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				Channe	el <u>v</u> iew			op All		art Maria	gei		Reliesh		: LI
VoIP/RT	TP VoIP/F	RTP End	dps File-IO	Resour	ce Mgr 🛛 🖸	DUT Profile	es	Traffic-Profi	les Ale	rts Wa	arnings	+			
Sta	tus	Por	rt Mgr	Layer	3	L3 Endps		Laye	r 4-7		Armage	ddon	Wa	anLinks	
Disp	: 192.168.	92.12:	1	Sniff Pack	ets	Down	Î	Clear Cou	nters	Reset	Port	Delete			
						-									
Rpt	Timer: med	ium (8 s) 🔻	Apply		VRF	î	Disp <u>l</u> a	ay	Cr <u>e</u> a	te	Mo <u>d</u> ify	Batch	Modify	I
					-All Ethern	et Interface	es (P	orts) for all F	Resources	s. ———			-		_
							1				1	1	1		
Port	Phantom	Down	Parent Dev	Channel	Alias	SSID		AP	3	P	Signal	MAC			
1.1.00					eth0				192.168			0c:c4:7a:86			
1.1.01					ethl				10.40.0.	73		0c:c4:7a:86			
1.1.02		r	wiphy0		sta00500	jedway-w	Not-	Associated	0.0.0.0		0 dBm	00:0e:8e:ba			
1.1.03				153	wiphy0				0.0.0.0			00:0e:8e:32	2:12:cf		
1.1.04		V	wiphy0	153	sta00501	jedway-w	Not-	Associated	0.0.0.0		0 dBm	00:0e:8e:bo	::33:cf		
1.1.05		~	wiphy0	153	sta00502	jedway-w	Not-	Associated	0.0.0.0		0 dBm	00:0e:8e:ea	a:ae:cf		
1.1.06		V	wiphy0	153	sta00503	jedway-w	Not-	Associated	0.0.0.0		0 dBm	00:0e:8e:a6	5:41:cf		
1.1.07		~	wiphy0	153	sta00504	jedway-w	Not-	Associated	0.0.0.0		0 dBm	00:0e:8e:87	7:16:cf		
1.1.08		~		153	sta01000	jedway-w	Not-	Associated	0.0.0.0		0 dBm	00:0e:8e:42	2:df:33		
1.1.09				-1	wiphyl	1			0.0.0.0			00:0e:8e:5a	a:6e:33		
1.1.10			wiphyl		sta01001	jedwav-w	00:0	E:8E:7B:D	10.40.11	.5	-45 d	00:0e:8e:ae	:17:33		
1.1.11		~			sta01002			Associated				00:0e:8e:10			

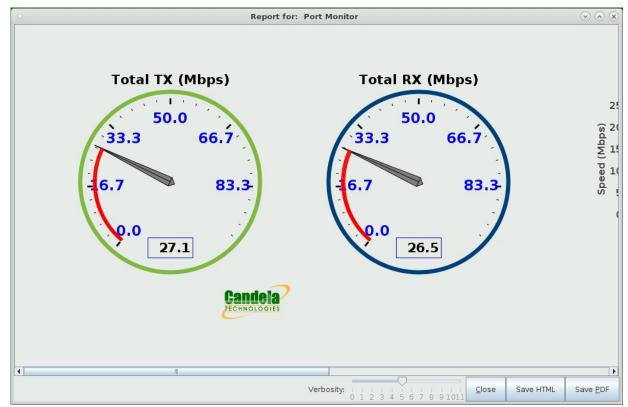
5. Right click on one of the selected ports, and select **Port Monitor**.

						LANforg	e Man	ager V	/ersion	(5.4.)	2)						$\overline{\mathbf{v}}$	\bigcirc
<u>C</u> ontrol	Reporting	Tear	Off Inf	o <u>P</u> l	ugins					_								
					Chamb	er <u>V</u> iew		St	op All		Re	esta	rt Manag	er		<u>R</u> efresh		HELP
VoIP/RT	P VolP/F	RTP En	dps F	ile-I0	Resour	ce Mgr [Profiles	Traffic	-Profile	s	Aler	ts War	nings	r+1 -			
Sta	tus	Po	rt Mgr	7	Layer	-3	L3 EI	ndps	7	Layer	4-7		4	rmage	ddon	W	anLink	3
Disp	: 192.168.	0212	1		Sniff Pack	ote	PD	own 1	Clear	r Coun	tors		Reset P	ort	Delete	7		
			-		Shin Tuck				cicai	court	icers		Reser	on	Delete			_
Rpt	Timer: med	ium (8 s) 🖣		Apply			RF I	0	Disp <u>l</u> ay	'		Cr <u>e</u> at	e	Mo <u>d</u> ify	Batch	Modify	1
						-All Etherr	net Inte	rfaces (P	orts) fo	r all Re	esour	rces.						
Port	Phantom	Down	Parent	Dev	Channel	Alias	SS	Clear Se Modify S		1			F	Signal	M	AC		
1.1.00						eth0		Reset Se	elected						0c:c4:7a:8	36:69:18		F
1.1.01						ethl		Reset Selected (Logout)						0c:c4:7a:8			Γ	
1.1.02		~	wiphy0		153	sta00500	jedwa	Display Selected X) dBm	00:0e:8e:					
1.1.03						wiphy0		✤ Dynamic Report D				D		00:0e:8e:32:12:cf Bm 00:0e:8e:bc:33:cf				
1.1.04		~	wiphy0 wiphy0		153 153	sta00501 sta00502	jedwa jedwa	Table Depart			т) dBm) dBm				1		
1.1.05		V	wiphy0			sta00502	iedwa				E) dBm						
1.1.07		V	wiphy0		153	sta00504	jedwa		ions				С) dBm	00:0e:8e:8			
1.1.08		~	wiphyl		153	sta01000		View Log	IS				V		00:0e:8e:4			ŀ
1.1.09						wiphyl		Create L		СХ			3		00:0e:8e:5	5a:6e:33		
1.1.10			wiphyl		153	sta01001	jedwa	Show So	-				W		00:0e:8e:a			
1.1.11		V	wiphyl		153	sta01002	liedwa	Do Prob					G) dBm	00:0e:8e:	1c:5c:33		
ogged in	n to: locali	nost:40	002 as:	Adm	iin		_	Add/Rem	nove Ta									
								Add/Rem	nove Ta	ble Re	port	Colu	mns					
								Save Tal	ble Layo	out								
								Reset Ta	able Lay	<u>out</u>								
								Auto-Res	size Col	umns								
								Port Brin	ngup Te	st								
								Port Mor	nitor				R.					
								Port Res	et Test									
								WiFi Cap	acity Te	est								
								WiFi Mob	oility									

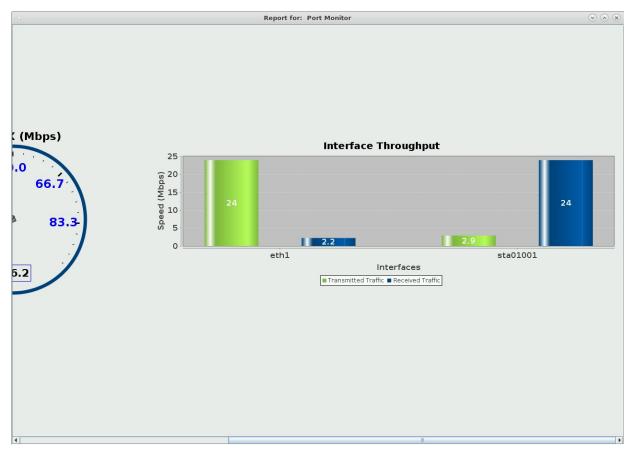
6. You will see your two ports in the port selector. Click **Start** to begin the monitor.

•	Port Monitor	\odot \otimes \otimes
Refresh Interval:	5000	
Total Max Range	Automatic	(0 bps) 🗸
Individual Max Range	Automatic	(0 bps) 👻
Group 1 Name	Wired	
Port Group 1		
Group 2 Name	Wired2	
Port Group 2		
🖌 Show Tx Bps	🗹 Show Rx B	3ps
Show Text Header	🗹 Clear Inte	rfaces on Start
	Ports	1
Ports in Use	← Add Port	Free Ports
1.1.1 eth1 1.1.10 sta01001	Remove Port → Linear Sort Interleave Sort 2 Ports Selected	1.1.0 eth0 1.1.2 sta00500 1.1.4 sta00501 1.1.5 sta00502 1.1.6 sta00503 1.1.7 sta00504 1.1.8 sta01000 1.1.11 sta01002 1.1.12 sta01003 1.1.13 sta01004
		<u>S</u> tart <u>C</u> lose

7. The monitor display was designed to be a full-screen window. You'll see it scroll off to the right. Maximize the window to see more.



8. The bar chart on the right side shows port totals.



9.

Displaying Groups of Ports

10. You can use the Port Group 1 and Port Group 2 fields in the settings window to display items. The window pictured here shows a station on a 2.4Ghz band and another station on a 5Ghz band.

•	Port Monitor		\odot \land \times			
Refresh Interval:	5000		-			
Total Max Range	Automatic	(O bps)	-			
Individual Max Range	Automatic	(O bps)	-			
Group 1 Name	5g					
Port Group 1	sta00500					
Group 2 Name	24g					
Port Group 2	sta01000					
Show Tx Bps	Show Rx	Bps				
Show Text Header	🖌 Clear Inte	Clear Interfaces on Start				
	Ports		- F			
Ports in Use	← Add Port	Free Ports				
1.1.1 eth1 1.1.2 sta00500 1.1.8 sta01000	Remove Port → Linear Sort Interleave Sort 3 Ports Selected	<pre>1.1.0 eth0 1.1.4 sta00501 1.1.5 sta00502 1.1.6 sta00503 1.1.7 sta00504 1.1.10 sta01001 1.1.11 sta01002 1.1.12 sta01003 1.1.13 sta01004</pre>	01 02 03 04 001 002 002 003			
		<u>S</u> top	<u>C</u> lose			

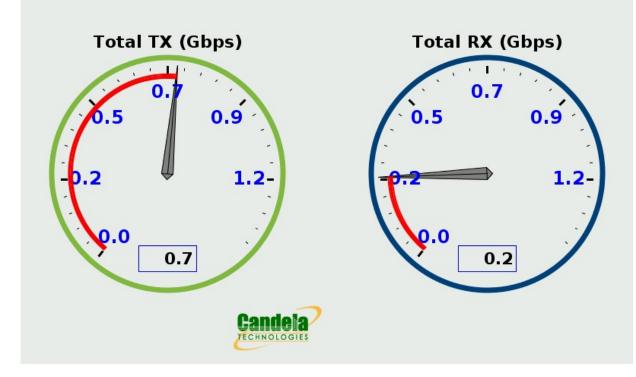
11. The ports for these settings show different channels

0			LANforge	Manage	er V	ersio	on(5.4.2)		(·	
<u>C</u> ontrol	Reporting	Tear	Off Info Pla	ugins						
Chamb	er <u>V</u> iew		<u>S</u> top	All	Re	start	Manager		<u>R</u> efresh	HELP
Profiles	Traffic-	Profiles	Alerts	Warnings	+	Wifi	Messages			
VoIP/F	RTP	VoIP/	RTP Endps	File-	10	Te	st Group	Resource	Mgr	DUT
Status	Port	Mgr	Layer-3	L3 En	dps	La	yer 4-7	Armageddon	Wanl	Links
Disp: 92.	12:1 S	niff Pac	kets	Down	1	Cle	ar Counters	Reset Po	ort De	ele <u>t</u> e
Rpt Timer	mec	Appl	y		I		Disp <u>l</u> ay	Create	Mo	o <u>d</u> ify
			All Ethern	et Interfac	ces (Po	orts) f	for all Resour	ces.		
Port	Phantom	Down	own Parent Dev Channel A		Ali	as	S	SID	AF	2
1.1.00					eth0					
1.1.01					ethl					
1.1.03				153	wiphy					
1.1.09				6	wiphy					
1.1.14				0	wiphy					
1.1.15				0	wiphy					
1.1.02			wiphy0	153	sta00			a2-x2048-5-1		
1.1.08			wiphyl	6	sta01			a2-x2048-5-1		
1.1.04			wiphv0	153	sta00	501	ledway-wi	a2-x2048-5-1	Not-Associ	ated -
Logged in	to: local	nost:40	02 as: Adm	in						

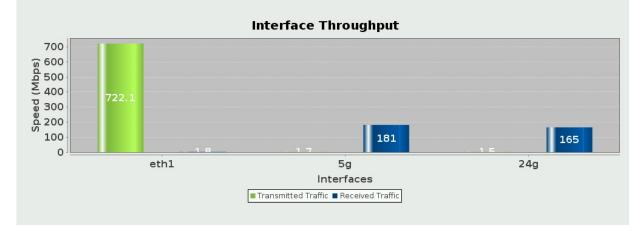
12. The connections for these ports are both attempting 300Mbps download

ି LA	Nforge	Manager	Version(5	i.4.2)		v × ×
<u>Control</u> <u>Reporting</u> Tear <u>Off</u>	nfo <u>P</u> lu	igins				
Chamber <u>V</u> iew	<u>S</u> top	All	Restart Mar	nager	<u>R</u> efresh	HELP
VoIP/RTP VoIP/RTP E		Varnings File-IO L3 Endp		iroup	Resource Mgr nageddon Wa	DUT
fast (1 s) 🔻 Go Test	Manage	r all	-	Select All	Start + <u>S</u> top -	Quiesc
0 - 500	🔻 Go			Disp	ay Cr <u>e</u> ate Mog	dify De
[Cross C	onnects for	Selected Tes	t Manager—		
Name	Туре	State	Pkt Rx A	Pkt Rx B	Bps Rx A	Bps
24g-tcp	LF/TCP	Run	5,819	176,289	55,986	76
24g-udp	LF/UDP	Run	5,776	9,726,816	55,987	94
5g-tcp	LF/TCP	Run	5,822	54,069	55,987	23
5g-udp	LF/UDP	Run	5,757	3,436,509	55,831	33
Logged in to: localhost;4002 a	c. Admi					•

13. We see a lot of TX from **eth1** in the dial, but not much recieved.



14. We can compare the 2.4Ghz ports and the 5Ghz ports in the bar charts



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