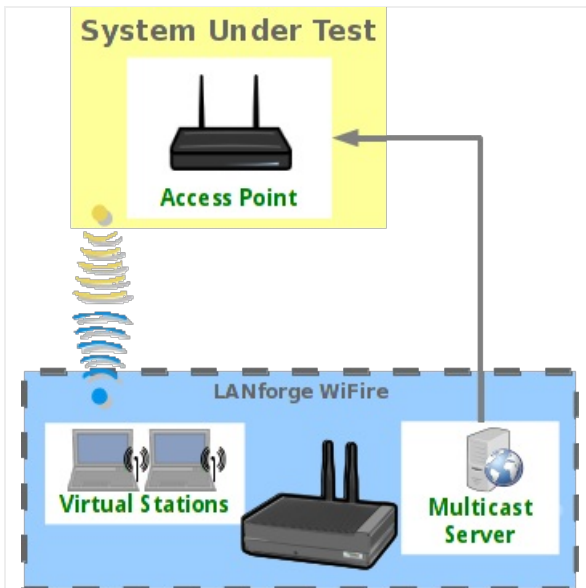
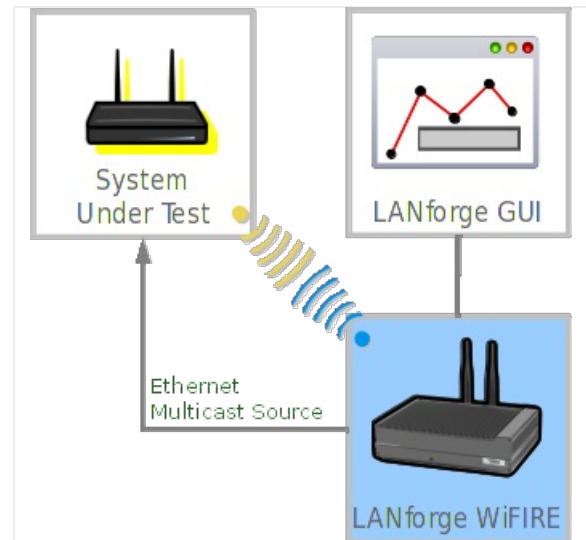


## Test WiFi Multicast Download.

**Goal:** Test WiFi Multicast Download.

Test WiFi Multicast Download with a small number of stations. This example uses a pair of LANforge CT520 systems, but the procedure should work on all CT523, CT524 and CT525 systems. Multicast is a bit special in Wireless networks. Packets are normally transmitted at the lowest rate, so even a small bit of multicast traffic will slow down the entire network. In this example, we will transmit multicast frames from the AP to the stations. Many users will instead use the wired Ethernet port as the transmitter, but aside from the different port, the procedure should be the same. This example assumes you have already created and configured the desired amount of WiFi station interfaces.



1. Create Multicast transmitter on AP interface

- A. Go to the **L3 Endps** tab, and click **Create**. Set the IGMP Addr, IGMP Dest Port, name, PDU Size, Port, etc and click OK when done.

2. Create Multicast receivers on Station interfaces

- A. Go to the **L3 Endps** tab, and click **Create**. Set the IGMP Addr, Min IP Port, name, Port. The IGMP Addr and IP Port should match the transmitter. Make sure you also select the 'Rcv Mcast' checkbox. Click **Apply** when done. You can then change the name, change the Port, and click **Apply** again to create a duplicate endpoint on another station interface.

3. Test throughput

- A. Select the Multicast transmitter and receiver endpoints on the **L3 Endps** tab and click **Start**. Observe transmit and receive rates, packet-loss, and other statistics to verify performance is at expected value.

LANforge Manager Version(5.2.9)

Control Reporting Tear-Off Info Plugins

Stop All Restart Manager Refresh HELP

Resource Mgr Serial Spans PPP-Links Event Log Alerts Port Mgr Messages

Attenuators Collision-Domains File-IO Layer-4 Generic Test Mgr Test Group

Status Layer-3 L3 Endps VoIP/RTP VoIP/RTP Endps Armageddon WanLinks

Min PDU Size 1k (1,024 B) Go Max PDU Size Same Go Start Stop Quiesce Clear

MIN Tx Rate New Modem ( 56 Kbps) Go MAX Tx Rate Same Go Display Create Modify Batch Modify Delete

View 0 - 400 Go

All Endpoints													
Name	Run	Mng	Script	Tx Rate	Tx Rate(1)	Rx Rate	Rx Rate(1)	Rx Drop %	Tx Pkts	Rx Pkts	Delay	Dropped	Jitter
mcast-rcv-sta-001	✓	✓	None	0	0	3,982,040	3,983,503	0	0	1,124,155	5	3,970	
mcast-rcv-sta-002	✓	✓	None	0	0	3,982,038	3,983,767	0	0	1,123,984	6	3,968	
mcast-rcv-sta-003	✓	✓	None	0	0	3,982,038	3,983,868	0	0	1,124,018	5	3,968	
mcast-rcv-sta-004	✓	✓	None	0	0	3,982,039	3,983,802	0	0	1,124,086	5	3,969	
mcast-rcv-sta-005	✓	✓	None	0	0	3,982,035	3,983,467	0	0	1,124,188	5	3,970	
mcast-xmit-sta	✓	✓	None	3,996,096	3,995,421	0	0	0	1,127,879	0	0	0	
tcp-1.13-03.006-A	✓	✓	None	0	0	0	0	0	0	0	0	0	
tcp-1.13-03.006-B	✓	✓	None	0	0	0	0	0	0	0	0	0	
tcp-1.13-03.007-A	✓	✓	None	0	0	0	0	0	0	0	0	0	

Logged in to: 192.168.100.138:4002 as: Admin