**Goal**: Do packet sized testing with a hunt script using multiple stations.

We will manipulate the parameters of 10 Layer 3 connections using a single hunt script. The WiFi stations will change packet size as a group by being part of a Test Group. In this scenario, we will create traffic to different upstream destinations using MAC VLANS, and the AP wired up to **eth1** of our LANforge machine. Requires a **CT-520** for only stations, or a **CT-523** if you also want a WiFi monitor station.

1. Create 10 virtual stations: in the **Port Mgr** tab, highlight radio **wiphy0** and click the Create button. In this scenario, we are using SSID jegtest.
A. Select WiFi STA
B. Check DHCP-IPv4
C. Quantity: 10
D. Station ID: 0
E. SSID: jettest
F. Click Apply and then close the window.
G. You should see stations sta8 - sta9.

For more information see creating virtual stations

2. **Simple Method** This method only requires setting the IP on eth1. In this scenario, our upstream network is 10.26.1.0/24. In the Port Mgr tab, highlight eth1 and click Modify.

A. IP: 10.26.1.10
3. **(Optional Advanced Method)** Create ten MAC VLANs on the eth1. In this scenario, our upstream network is 10.26.1.0/24. In the Port Mgr tab, highlight eth1 and click **Create**.

![Create VLANs on Port: 1.1.01](image)

A. Select MAC-VLAN
B. Quantity: 10
C. IP: 10.26.1.11
D. IP Mask: 255.255.255.0
E. Gateway: 10.26.1.1
F. Click **Apply** and close the window.
G. You should see 10 MAC VLANs, eth1#0 - eth1#9.

4. Create ten Layer-3 cross connects. We will start at 10Mbps transmit on them as a reasonable start. In general hunt scripts start low and try to work their way higher. When using more stations, set a lower starting transmit rate. In the Layer-3 tab, click **Create**.
A. Name: sta-mac-0

B. Endpoint-A: eth1 [if using the advanced MAC-VLAN method, set this to eth1#0.

C. Endpoint-B: sta0

D. Type: LANforge / UDP

E. Min Tx Rate: 10Mbps (both sides)

F. Click Apply. Leave the window open.

5. Create nine more stations. Click Batch-Create.

sta-mac-1, sta-mac-2 ... sta-mac-9
Endp-A Resources: 1, 1 ... 1
Endp-B Resources: 1, 1 ... 1
Endp-A Ports: eth1, eth1 ... eth1
Endp-B Ports: sta1, sta2 ... sta9
Endp-A IPs: AUTO, AUTO ... AUTO
Endp-B IPs: AUTO, AUTO ... AUTO

Quantity: 9  Number of Digits: 4  Zero Pad
Starting Name Suffix: 0  Name Increment: 1
Resource Increment A: 0  Resource Increment B: 0
Port Increment A: 0  Port Increment B: 1
IP Addr Increment A: 0  IP Addr Increment B: 0
IP-Port Increment A: 1  IP-Port Increment B: 1

Apply  Close
A. Quantity: 9
B. Deselect **Zero Pad**.
C. If only eth1 is used for upstream traffic, set **Port Increment A to 0**. Otherwise leave it at 1.
D. Click **Apply** and close window.
E. Close the Create/Modify Cross Connect window.

6. You will see ten Layer-3 connections in the Layer-3 tab.

![LANforge Manager](image1)

Logged in to: brent-523:4002 as: Admin

7. Create a Test Group, in the Test Group tab, click **Create**.

![Create/Modify Test Group](image2)

A. Name: **sta-mac**
B. Select **Config As Totals**.
C. Highlight all the **sta-mac-x** connections and click **Add Cx**.
D. Click **Apply**.
E. Click **Script**.
F. Configure the Test Group Script.

G. Close the Create Test Group window.

8. Start the test. Highlight the test group and click **Start**.
9. You will see the script report window.

10. When the test is finished, click Graphical Report to see graphs.
Max Peer RX-Bits-per-second v/s Packet Size

Peer RX BPS

Packet Size

0  100  200  300  400  500  600  700  800  900  1,000  1,100  1,200  1,300  1,400  1,500  1,600

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