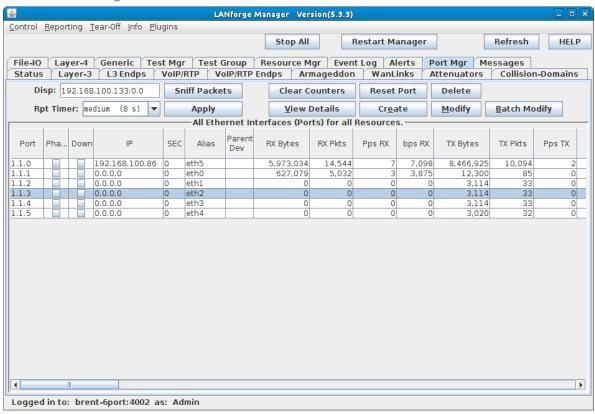


Generating Traffic for DSLAM Testing

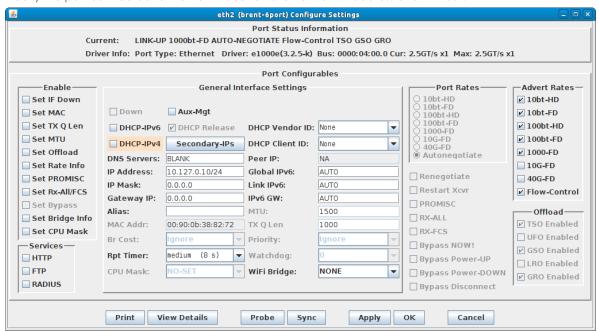
Goal: Set up and run traffic to a DSLAM system as shown in the CT570 product description.

Please refer to the diagram in the CT570 link above. In this test scenario, the LANforge-FIRE Core is one interface on a LANforge system. The LANforge-FIRE Edge is another interface on the same LANforge system. The LF Core interface is connected to the upstream DSLAM interface either directly or through a switch. The CPEs are connected to a multi-port VLAN switch which has a VLAN trunk that is connected to the LF Edge. Traffic is sent between the LF Core and the LF Edge to achieve end-to-end network traffic testing of the DSLAM system.

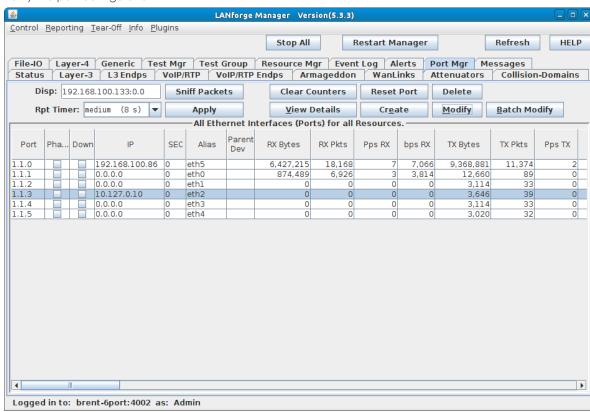
- 1. Connect one LANforge-FIRE interface to the DSLAM upstream internet connection. This is the LF Core part of the diagram mentioned above.
- 2. Set up the LANforge port so that it has a valid IP address and IP mask.
 - A. Go to the Port Manager



B. Modify the port connected to the DSLAM. Set a valid network IP address and IP mask.

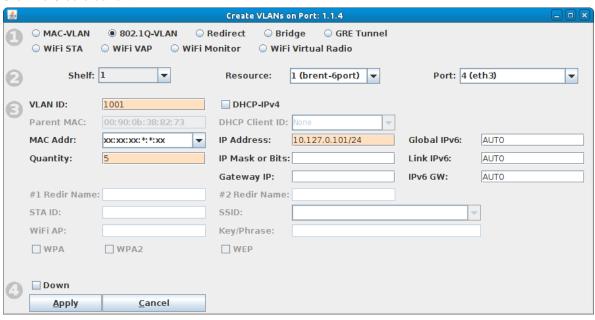


C. Verify the port configuration

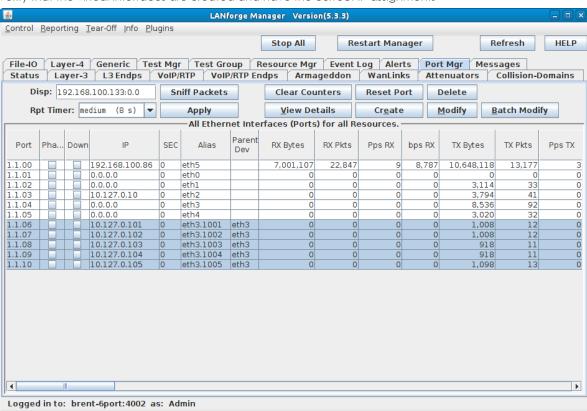


For more information see LANforge User's Guide: Ports (Interfaces)

- 3. Set up virtual interfaces.
 - A. On the **Port Mgr** tab, select the port that will connect to the multi-port switch and will also be your VLAN trunk. This is the LF Edge part of the diagram.
 - B. Click the Create button:



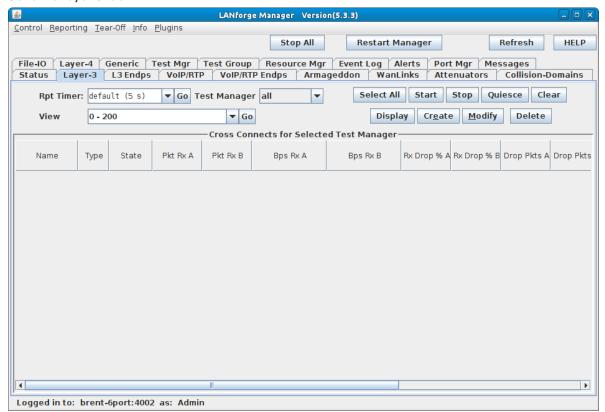
- A. Select the 802.1Q-VLAN virtual interface type
- B. The VLAN ID should correspond to your multi-port switch VLAN configuration
- C. Enter Quantity (number of virtual interfaces to be created)
- D. Enter the appropriate IP address and IP mask
- E. Click **Apply** to create the virtual interfaces
- C. Verify that the virtual interfaces are created and have the correct IP assignments



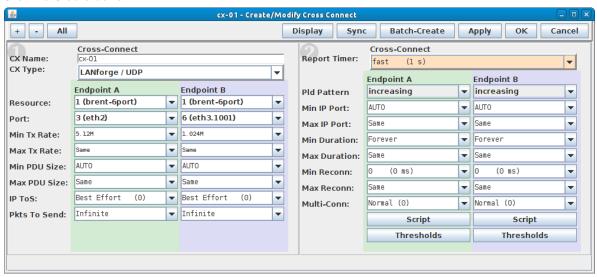
For more information see LANforge User's Guide: Creating & Deleting Virtual Interfaces

4. Create Layer-3 connections.

A. Go to the Layer-3 tab

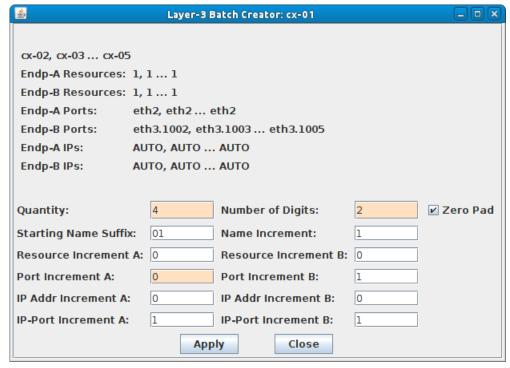


B. Click the Create button



- A. Fill in a connection name, select a connection type and set the report timer
- B. Make endpoint A the DSLAM upstream port or LF Core
- C. Make endpoint B the CPE downstream port or LF Edge
- D. You can make the TX/RX rates asymmetric for the connection to simulate how the connection would be used in a real-world scenario. Here we have about 5Mbps downstream (DSLAM to CPE) and 1Mbps upstream (CPE to DSLAM).
- E. Click **Apply** to create the connection

C. Create multiple connections

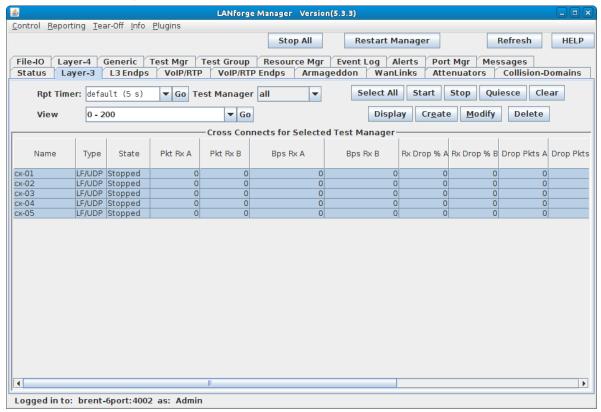


- A. Click **Batch-Create** (located in the Layer-3 connection's Create/Modify window) to create four additional connections.
- B. Set Quantity to 4, Port Increment A to 0.
- C. Click Apply.

For more information see LANforge User's Guide: Layer-3 Endpoints (FIRE)

5. Run traffic.

A. Select the connections you want to start



B. Click the Start button

