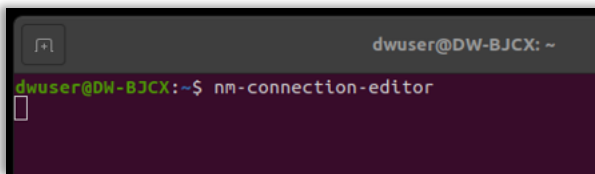


DW-BJCX:

How to change the Bridge IP address and DHCP Range for cameras connected to the CX integrated PoE switch.

Step 1: Change Bridge IP Address

1. Open a terminal by pressing CTRL+ALT+T
2. Type `nm-connection-editor` and hit enter.

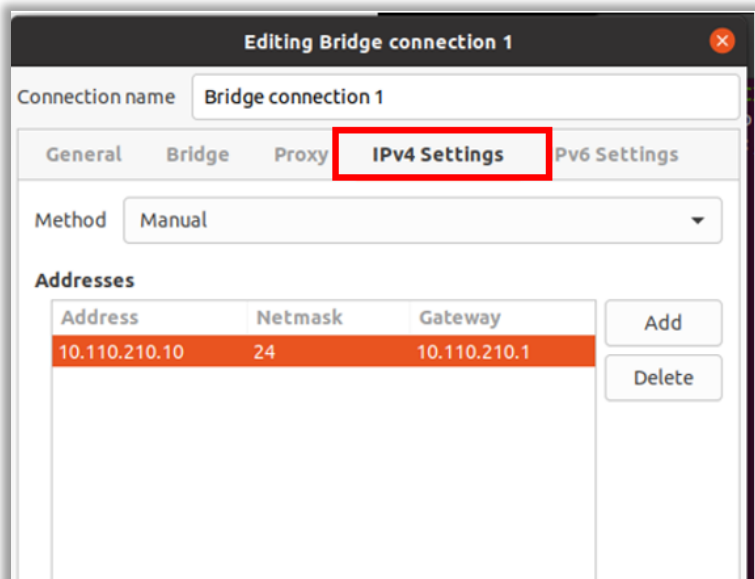


```
dwuser@DW-BJCX:~$ nm-connection-editor
```

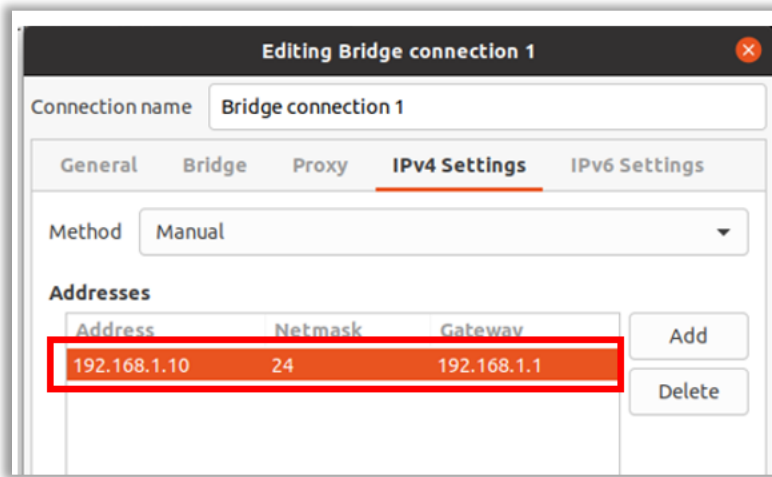
3. Double click on **Bridge connection 1**



4. Click on the IPv4 Settings Tab.



5. Click on the address field and gateway to customize it for your network.



6. Click Save.

Step 2: Restart the bridge after IP configuration change

1. Open a terminal by pressing CTRL+ALT+t
2. Type `nmcli conn up Bridge\ connection\ 1` and hit enter.

```
dwuser@DW-BJCX: ~  
dwuser@DW-BJCX:~$ nmcli conn up Bridge\ connection\ 1  
Connection successfully activated (master waiting for slaves) (D-Bus active path  
: /org/freedesktop/NetworkManager/ActiveConnection/42)  
dwuser@DW-BJCX:~$
```

Step 3: Update the DHCP IP address range

1. In the same terminal window, type `sudo nano /etc/dhcp/dhcpd.conf` and hit enter.

```
dwuser@DW-BJCX:~$ sudo nano /etc/dhcp/dhcpd.conf  
[sudo] password for dwuser:
```

2. Type in the dwuser root password `Dw5pectrum`
3. The nano editor will open and you can edit the DHCP range by editing the 3 lines containing
`subnet 10.110.210.0 netmask 255.255.255.0`
`range 10.110.210.101 10.110.210.150`
`option routers 10.110.210.254`

** The configuration will depend on your network, so contact your network administrator.

```
GNU nano 4.8 /etc/dhcp/dhcpd.conf  
ddns-update-style none;  
  
subnet 10.110.210.0 netmask 255.255.255.0 {  
  range 10.110.210.101 10.110.210.150;  
  option subnet-mask 255.255.255.0;  
  option routers 10.110.210.254;  
  default-lease-time 2592000;  
  max-lease-time 2592000;  
}
```

4. After editing, Press CTRL + o to save the file. Hit enter.

```
File Name to Write: /etc/dhcp/dhcpd.conf
^G Get Help      M-D DOS Format  M-A Append      M-B Backup File
^C Cancel        M-M Mac Format  M-P Prepend     ^T To Files
```

5. Press CTRL + x to exit.

Step 4: Restart the DHCP Server

1. In the same terminal window, type `systemctl restart isc-dhcp-server` and hit enter.

```
dwuser@DW-BJCX:~$ systemctl restart isc-dhcp-server
dwuser@DW-BJCX:~$
```

2. If prompted for the password, enter `Dw5pectrum`

Step 5: Check the status of the DHCP Server

1. Type `systemctl status isc-dhcp-server` and hit enter.

```
dwuser@DW-BJCX:~$ systemctl status isc-dhcp-server
```

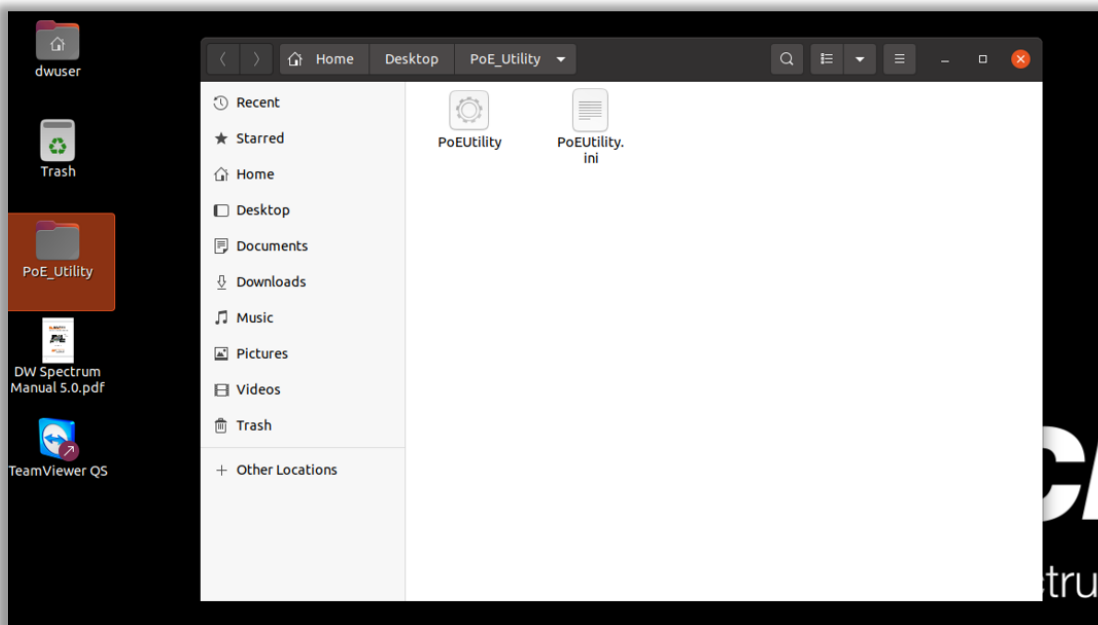
2. The DHCP service should show as active

```
dwuser@DW-BJCX: ~
[sudo] password for dwuser:
dwuser@DW-BJCX:~$ systemctl restart isc-dhcp-server
dwuser@DW-BJCX:~$ systemctl status isc-dhcp-server
● isc-dhcp-server.service - ISC DHCP IPv4 server
   Loaded: loaded (/lib/systemd/system/isc-dhcp-server.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2023-04-24 15:28:18 PDT; 22s ago
     Docs: man:dhcpd(8)
    Main PID: 3011 (dhcpd)
      Tasks: 4 (limit: 9300)
     Memory: 4.4M
    CGroup: /system.slice/isc-dhcp-server.service
           └─3011 dhcpd -user dhcpd -group dhcpd -f -4 -pf /run/dhcp-server/d

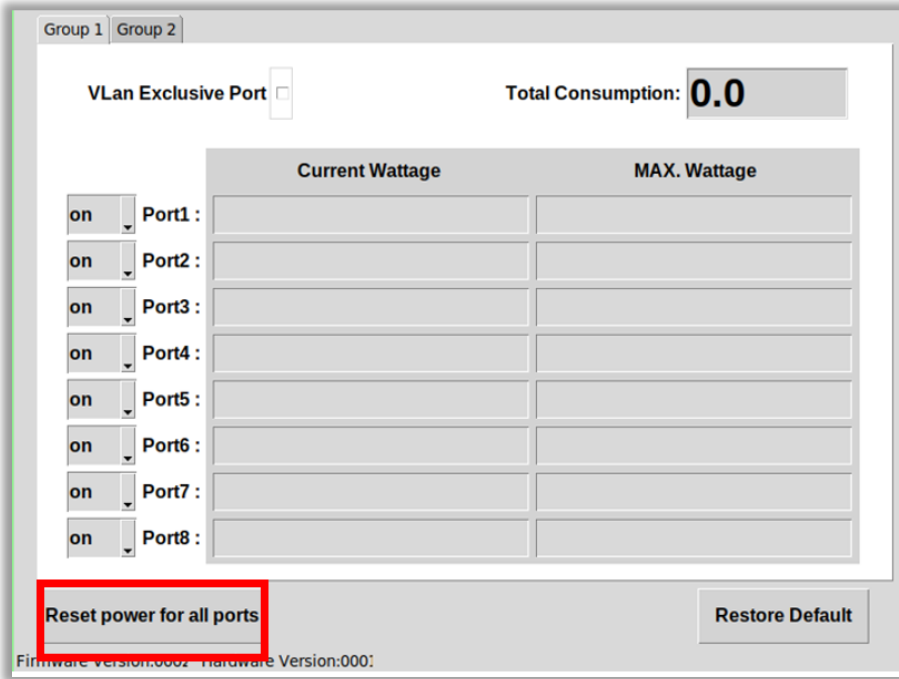
Apr 24 15:28:18 DW-BJCX sh[3011]: Wrote 0 leases to leases file.
Apr 24 15:28:18 DW-BJCX dhcpd[3011]: PID file: /run/dhcp-server/dhcpd.pid
Apr 24 15:28:18 DW-BJCX dhcpd[3011]: Wrote 0 leases to leases file.
Apr 24 15:28:18 DW-BJCX dhcpd[3011]: Listening on LPF/br001/00:10:f3:a6:52:13/10.1.1.1
Apr 24 15:28:18 DW-BJCX sh[3011]: Listening on LPF/br001/00:10:f3:a6:52:13/10.1.1.1
Apr 24 15:28:18 DW-BJCX sh[3011]: Sending on LPF/br001/00:10:f3:a6:52:13/10.1.1.1
Apr 24 15:28:18 DW-BJCX sh[3011]: Sending on Socket/fallback/fallback-net
Apr 24 15:28:18 DW-BJCX dhcpd[3011]: Sending on LPF/br001/00:10:f3:a6:52:13/10.1.1.1
Apr 24 15:28:18 DW-BJCX dhcpd[3011]: Sending on Socket/fallback/fallback-net
Apr 24 15:28:18 DW-BJCX dhcpd[3011]: Server starting service.
```

Step 6: Power cycle the PoE Switch using the PoE Utility

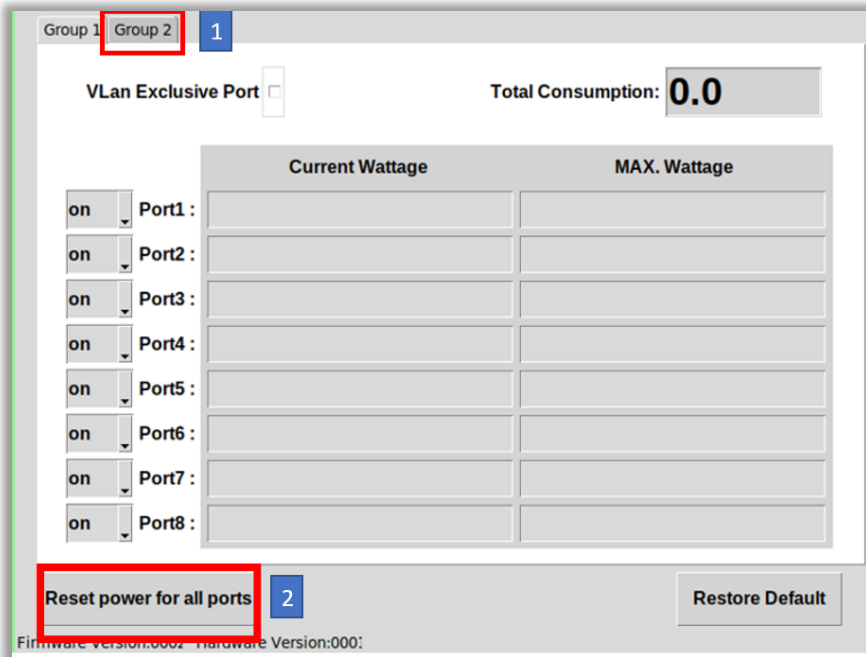
1. Double click on the PoE Utility shortcut in the PoE_UTILITY folder on the desktop.



2. Click on the “Reset power for all ports” button to recycle power for all PoE ports.



The status of each port should change from on to off and back to on again. Make sure to do the same thing for “Group 2”



Test the cameras using IP finder to verify the Bridge IP and DHCP settings.