On NX1 Linux driver install steps, refer to the README.TXT under Linux driver tar file.

Updating the Firmware Components Manually on Linux:

Provides instructions for manually updating the firmware on Broadcom Gigabit Ethernet network adapters for Linux

Download the Linux firmware upgrade utility and the Firmware images file from the corresponding Broadcom Gigabit Ethernet Adapter page 'Downloads' -> 'Firmware'

To update the adapter firmware on Linux:

1. Install the Broadcom management application programming interface for Linux - bmapilnx

rpm -ivh bmapilnx-226.0.9-0.x86_64.rpm

2. Install the Linux firmware upgrade utility

rpm -ivh lnxfwupg-226.0.18-1.x86_64.rpm (if no older version of lnxfwupg was installed in the system)

(or)

rpm -Uvh lnxfwupg-226.0.18-1.x86_64.rpm (Update, if already older version lnxfwupg was installed)

3. List the Broadcom Gigabit Ethernet adapters using the following command:

lnxfwupg

4. Select the adapter

```
[root@dhcp-10-123-78-34 cs956993]# lnxfwupg
Broadcom Network Controller Firmware Upgrade Utility for Linux v226.0.18
Initializing...

C Brd      MAC          Drv                     Name
- ----     ------------ ---  ------------------------------------------------
0 165F EC2A7246A7C0 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno1)
1 165F EC2A7246A7C1 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno2)
2 1657 E43D1AF99440 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens2f0)
3 1657 E43D1AF99441 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens2f1)
4 1657 E43D1AF99442 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens2f2)
5 1657 E43D1AF99443 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens2f3)
0:>
```

5. All the Firmware components are available in the corresponding folders in the downloaded Firmware image file.

Use the correct file to upgrade the respective firmware component as shown below:

The following example shows how to upgrade each firmware component on the N41T OCP adapter.

a. Upgrade Boot Code using the following command:

upgrade -bc ee5719c1.54

b. Upgrade EFI and PXE using the following command:

upgrade -mba 5719efipxe.bin

c. Upgrade CCM using the following command:

upgrade -ccm ccm2250.71

d. Upgrade NCSI Management firmware using the following command:

upgrade -mgmt nx1ncsi1.554.bin

e. Upgrade iscsi boot code using the following command:

upgrade -ib iboot2140.0

f. Verify the NVM directory contents using the following command:

dir

g. upgrade VPD if needed for N41T OCP adapter.

upgrade -vpd BCM95719N1905C.vpd

Ignore warnings message "REGION_W does not exist"

h. Exit out of the firmware upgrade utility

q

Note: commands can be executed in one line command mode with mac

Address or device name to identify the device.

Example:

lnxfwupg E43D1AF99440 dir

lnxfwupg E43D1AF99440 upgrade -bc ee5719c1.54