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-227.0.3-0.x86 64.rpm
- 2. Install the Linux firmware upgrade utility rpm -ivh Inxfwupg-226.0.30-1.x86_64.rpm (if no older version of Inxfwupg was installed in the system)

(or)

rpm -Uvh Inxfwupg-226.0.30-1.x86_64.rpm (Update, if already older version Inxfwupg was installed)

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

Inxfwupg

4. Select the adapter

```
[root@dhcp-10-123-78-178 cs956993]# lnxfwupg
Broadcom Network Controller Firmware Upgrade Utility for Linux v226.0.30
Initializing...
```

```
[root@dhcp-10-123-78-178 tg3-3.139m] # ethtool -i enol driver: tg3
version: 3.139m
firmware-version: 5720-vl.43 NCSI vl.5.55.0
expansion-rom-version:
bus-info: 0000:02:00.0
supports-statistics: yes
supports-test: yes
supports-eeprom-access: yes
supports-register-dump: yes
supports-priv-flags: no
```

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 ee5719c1.57

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 nx1ncsi1.555.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:

Inxfwupg E43D1AF99440 dir

Inxfwupg E43D1AF99440 upgrade -bc ee5719c1.57

[root@dhcp-10-123-78-178 tg3-3.139m] # lnxfwupg E43DlAF99440 dir Broadcom Network Controller Firmware Upgrade Utility for Linux v226.0.30 Initializing...

	t NIC NetXtreme B Type	SRAM Addr	bit Ethernet	PCIe rev Length	Execute	•	
0	BootCode PXE	08003800 00010000	0000028C 00005004	00004D78 00030004			
1	EXT DIR		00035008	000000C4	no		
2	iSCSI Boot	00010000	00040BA4	0000F8B4	no	v214.0.152	
3	iSCSI CFG		00050458	00000800	no	v2.00	
4	iSCSI CFG 1		00050C58	00000800	no	v2.00	
5	APE Firmware[*]		00052458	0000D58C	APE	NCSI 1.5.55	
Extended Directory:							
80	CCM		000350CC	0000BAD8	no	v225.0.71	
81	iSCSI CFG 2		00051458	00000800	no	v2.00	
82	iSCSI CFG 3		00051C58	00800000	no	v2.00	

UnInitializing...

Program Exit Code: (0)

[root@dhcp-10-123-78-178 tg3-3.139m] # lnxfwupg EC2A7246A7C0 dir Broadcom Network Controller Firmware Upgrade Utility for Linux v226.0.30 Initializing...

Select NIC NetXtreme BCM5720 Gigabit Ethernet PCIe (enol)...

Entry	Type	SRAM Addr	EEP Offset	Length	Execute	Version
	BootCode	08003800	0000028C	000048F4	CPUA(2)	5720-v1.43
0	PXE	00010000	0005DD44	00030004	no	21.6.4
					PCI30 M	BA v21.6.4
					EFI x64	∀21.6.77
1	EXT DIR		00034384	000000C4	no	
2	iSCSI Boot	00010000	00010658	00007A20	no	v214.0.152
3	iSCSI CFG		0004F7D4	00800000	no	₹2.00
4	iSCSI CFG 1		0004FFD4	00800000	no	₹2.00
5	APE Firmware[*]		00018078	0000D58C	APE	NCSI 1.5.55
Extend	ded Directory:					
80	CCM		00004B80	0000BAD8	no	v225.0.71

UnInitializing...

Program Exit Code: (0)