



BROADCOM NX1Gigabit Ethernet Network Adapters Owner's Manual

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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 lnxfwupg-226.0.30-1.x86_64.rpm` (if no older version of `lnxfwupg` was installed in the system) (or) `rpm -Uvh lnxfwupg-226.0.30-1.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-10-123-78-178 cs956993]# lnxfwupg
Broadcom Network Controller Firmware Upgrade Utility for Linux v226.0.30
Initializing...

C Brd      MAC      Drv      Name
-----
0 165F EC2A7246A7C0 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (enol)
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:>
```

```
[root@dhcp-10-123-78-178 tg3-3.139m]# ethtool -i enol
driver: tg3
version: 3.139m
firmware-version: 5720-v1.43 NCSI v1.5.55.0
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:

lnxfwupg E43D1AF99440 dir

lnxfwupg E43D1AF99440 upgrade -bc ee5719c1.57

```

Select NIC NetXtreme BCM5720 Gigabit Ethernet PCIe (en0)...
Entry Type          SRAM Addr    EEPROM Offset    Length    Execute Version
-----
0 BootCode          08003800      0000028C        000048F4    CPUA(2) 5720-v1.43
  FXE              00010000      0005DD44        00030004    no       21.6.4
                                     PCI30 M8A v21.6.4
                                     EFI x64 v21.6.77

1 EXT DIR          -----      00034384        000000C4    no
2 1SCSI Boot       00010000      00010658        00007A20    no       v214.0.152
3 1SCSI CFG        0004F7D4      00000800        00000800    no       v2.00
4 1SCSI CFG 1      0004FFD4      00000800        00000800    no       v2.00
5 APE Firmware[*] 00018078      0000D58C        APE        NCSI 1.5.55
Extended Directory:
80 CCM            -----      00004B80        0000BAD8    no       v225.0.71

UnInitializing...
Program Exit Code: (0)

```

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Documents / Resources

[illegible]

References

- User Manual

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