

## NC and XP Boot Monitor Details

All NCs and XP products from NCD and Tektronix contained a Boot Monitor that can be flashed using the NCBridge software. Below are the details on which Boot Monitor should be applied to which NC or XP series Product.

boot\_mon.900\_vxx.xx

Boot monitor for NC900 terminals only.

boot\_mon.500\_Vxx.xx

Boot monitor for Ethernet NC400s and NC200s terminals.

boot\_mon.500\_Vxx.xx-smallROM

Boot monitor for early Ethernet NC200 and NC400 terminals. Supports terminals manufactured at Tektronix with serial numbers beginning with B02 and lower (non-European terminals)(e.g. B01xxxx, B02xxxx)

boot\_mon.500\_Vxx.xx-Tokenring

Token Ring boot monitor ONLY! Once this boot monitor is flashed into the terminal, the unit will only communicate on a Token Ring network.

See the Installation instructions on updating the flash Boot ROMS with the above images.

### NC900 Boot ROM History

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Boot ROM v9.2 mod:

adds monset 119 for the N900, support for 1024x768 at 70Hz, 15 monitor.

Boot ROM v9.3 mod:

fixes a problem recognizing the lanif command and setting the lan chip to 100Mb, full duplex. 1/22/01

Boot ROM v9.4.1 mod:

Resets terminals IP address to 0.0.0.0 prior to network initialization, ensuring it doesn't cause duplicate addresses.

Boot ROM v9.4.3 mod:

Adds the NDelay command. The commands that are applicable:  
NDelay [DISABLE|n] <cr> - disable or 'n' delay in seconds

REport <cr>

net delay: 'seconds'

The delay can be disabled or a minimum of zero seconds up to a maximum of 3600 seconds (1 hour)

Boot ROM v9.4.5 mod:

Fixes the LANif command so the user can manually set the NC900 to 10Mbit full duplex and obtain full performance.

Boot ROM v9.4.6 mod: Fixes the problem in the NC900 to correctly

record network collisions in full-duplex mode.

Boot ROM v9.4.7 mod: The NC will now consistently set the broadcast address based on the IP address and subnet mask assigned to the terminal for both when the NC is booted from a remote host or from ROM.

The NC now may boot from ROM when its ihost parameter is set to 0.0.0.0 without polling for network configuration settings from the network.

Notes pertaining to updating Boot ROMs from NCBridge 3.1 and earlier!

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NC200 Note:

Do not attempt to update the boot monitor in your NC200 product unless using NCBridge 3.0.7 or higher. Using previous versions of the software (3.0 - 3.0.6) may disable your NC200 product such that service would be required to fix it.

NC400 Note:

Do not update the boot monitor in your NC400 product using the boot monitor code in NCBridge 3.1.0 as it will disable your NC400 product and service would be required to fix it.

NC400/200 Boot ROM History

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Boot ROM v7.1.0 mods:

- Booting from option ROM while obtaining IP parameters from a Windows NT DHCP server failed.
- The bootrom DHCP code did not request the station host name; the Windows NT DHCP server would not supply it by default.

Boot ROM v8.2 mods:

- Changed strings with "X Terminal" to just "terminal".
- Added token ring PCI init to all bootroms. Also added handling of LAN option board ID bits.
- Changed Tek copyrights to Network Computing Devices, Inc.
- Changed MAC address verification to allow non-Tek formats.
- Replaced Tek bootrom logos with NCD logos. Rearranged bootrom display to accommodate new logos.
- Fix for MOP booting bug - don't change MAC address when DNODE address is set.
- Fixed bad parameter passing which caused IP address of host supplying

IMASK value to be printed incorrectly in little-endian mode.

-Removed logo completely from small rom - doesn't fit.

-Added brom\_rom\_rev to gen config area so NCD manufacturing programs could properly detect complete bootrom version.

-Fix for SPR6169 - bootrom now just prints warning if boot method == ROM and the LAN cable isn't installed.

-Added client\_id bootrom command as a possible work-around for SPR6146.

-Fixed parsing of NAME command - if just "na" is used, the "NAtion" command was supposed to get called but "NAME" got called instead. Now the user must specify "NAME" completely as implied by the help command listing.

-Removed the monset and MPEG restriction (auth key) from all NC200 platforms. There is no longer an NC200E product.

Boot ROM v8.4.3 mod:

Added support for 1280x1024 at 85Hz - monset 63

Boot ROM v8.4.3-smallROM mod:

small bootrom for NCs supporting monset 62 and 63.

Boot ROM v8.4.4 mod:

Added monset 64, 800x600 @ 75 Hz, 15" color

Boot ROM v8.4.5 mod (5/23/01):

Resets terminal's IP address to 0.0.0.0 prior to network initialization, ensuring it doesn't cause duplicate addresses.