NV-600L/R Bootloader Upgrade Procedure:

- 1. Open console management by Hyperterminal with baudrate set at 115200.
- 2. Power On NV600 and than press spacebar key immediately

```
Copyright 2002-2004
CPU: ADM5120-175MHz
                      ADMtek, Inc.
SDRAM: 16MB
Flash: NOR-4MB
Boot System: Linux-2.4.18-5120
Loader Version: 1.02.00 (VDSL2)
Creation Date: 2005.08.03
Press <space> key tree times to enter boot menu..
1
Loader Menu
______
 [1] Xmodem Download
 [2] TFTP Client Download
 [3] Print Boot Params
 [4] Set Boot Params
 [5] Update bootloader
 [6] Exit
```

Please enter your number:_

- 3. Select item 5 to update bootloader.
- 4. Use Xmodem to update bootloader "u-boot-600.img" file.



- 5. After finished bootloader update, please power off and power on system
- 6. Change U-Boot parameter
 - 6.1 Show U-Boot parameter: printenv
 - 6.2 Change NV-600 IP address: setenv ipaddr xxx.xxx.xxx
 - 6.3 Change TFTP server IP address : setenv serverip xxx.xxx.xxx
 - 6.4 Change NV600R loaderfile file name: setenv loaderfile norloader.img
 - 6.5 Save U-Boot parameter : saveenv

Note: Do not forget to insert ".img" when changing the loader file name.

```
flash_flash=bootm $(kernel_addr)
tftp_boot=tftpboot 600000 vmlinuz-5120;bootm 80600000
update_kernel=tftpboot 0x80100000 $(bootfile);erase 0xbfc20000 bfffffff;tftpboot
$(kernel_addr) $(bootfile)
loaderfile=u-boot-nv600.img
update_loader=tftpboot 0x80100000 $(loaderfile);erase 0xbfc00000 0xbfc0ffff;tftp
boot 0xbfc00000 $(loaderfile)
erase_uboot_cfg=erase 0xbfc10000 0xbfc1ffff
stdin=serial
stdout=serial
stdout=serial
stderr=serial
ethact=ADM5120 Switch
Environment size: 632/1020 bytes
ADM5120 # setenv loaderfile norloader.img
ADM5120 # setenv loaderfile norloader.img
ADM5120 # setenv
Saving Environment to Flash...
Un-Protected 1 sectors
Erasing Flash...
done
Erased 1 sectors
Writing to Flash... done
```

ADH5120 #

Protected 1 sectors

7. Run update procedure: type run update_loader

Note: Make sure that Ethernet port is connected to the PC lan card and the source file

"norloader.img" must have .img at the end of the file.

- 8. Power off and then power on NV600
- 9. Select item 4 to Set Boot Parameters
 - 9.1 Enter new serial number: VDSL2 CPE or VDSL2 CO
 - 9.2 Enter new hardware version: A4
 - 9.3 Enter first mac address: 00-05-6e-xx-xx (MAC Address label under NV600 case).
 - 9.4 Enter new number of mac address: 1
 - 9.5 Enter new VDSL2 CO/CPE Mode: 0 (NV-600L: 1, NV600R: 0)

Loader Menu

- [1] Xmodem Download
- [2] TFTP Client Download
- [3] Print Boot Params
- [4] Set Boot Params
 [5] Update bootloader
- [6] Exit

Please enter your number:4

Set Boot Parameters.

Enter new serial number: vdsl2_cpe Serial number updated successfully. Enter new hardware version: A4 Hardware version updated successfully. Enter new mac address (XX-XX-XX-XX-XX): 00-05-6e-00-4e-b5 Enter new number of mac address (between 1-8): 1 Mac address updated successfully. Enter new VISL2 CO/CPE Mode (1/0): 0 VISL2 CO/CPE Mode changed.

10. Select item 2 TFTP Client Download to download firmware

- 10.1 Select "S" to setup parameters
 - 10.1.1 Enter TFTP Server IP Address
 - 10.1.2 Enter NV-600L or NV-600R Firmware File Name
 - 10.1.3 Enter NV600 IP address

Please enter your number:2

Server IP: 192.168.16.5 Remote File: NV600R_c4 IP address for this board:192.168.16.246

TFTP Client Menu

ED]: start download [S]: set parameters [X]: exit Enter your option:s

Please Enter TFTP Server IP : 192.168.16.5 Enter Remote File Name : NV600R_c4

IP address for this board: 192.168.16.246 Enter new IP address for this board: 192.168.16.246 IP updated successfully.

Server IP: 192.168.16.5 Remote File: NV600R_c4 IP address for this board:192.168.16.246

10.2 Select "D" to start download

Eraseing flash.....PASS Programming flash....PASS

11. Select item "X" to exit

12. Select item "6" to exit and reboot

TFTP Client Menu

ED]: start download [S]: set parameters [X]: exit Enter your option:x

Loader Menu

Englishing Example 2 (2017) [2017] [2

Please enter your number: ADM5120 Boot:

13. After Upgrade firmware write "rawaccess –e" to reset to default configuration in console management.

14. "Reboot" to reboot the unit to finished the update procedure.