

TN0070E [NVE] How to change configuration using RS-232C.doc

Latest review: 2006-1-25

Revision: A

Applies to: NVE1000, NVE2000, NVE4000, IPC1100

Level: Public

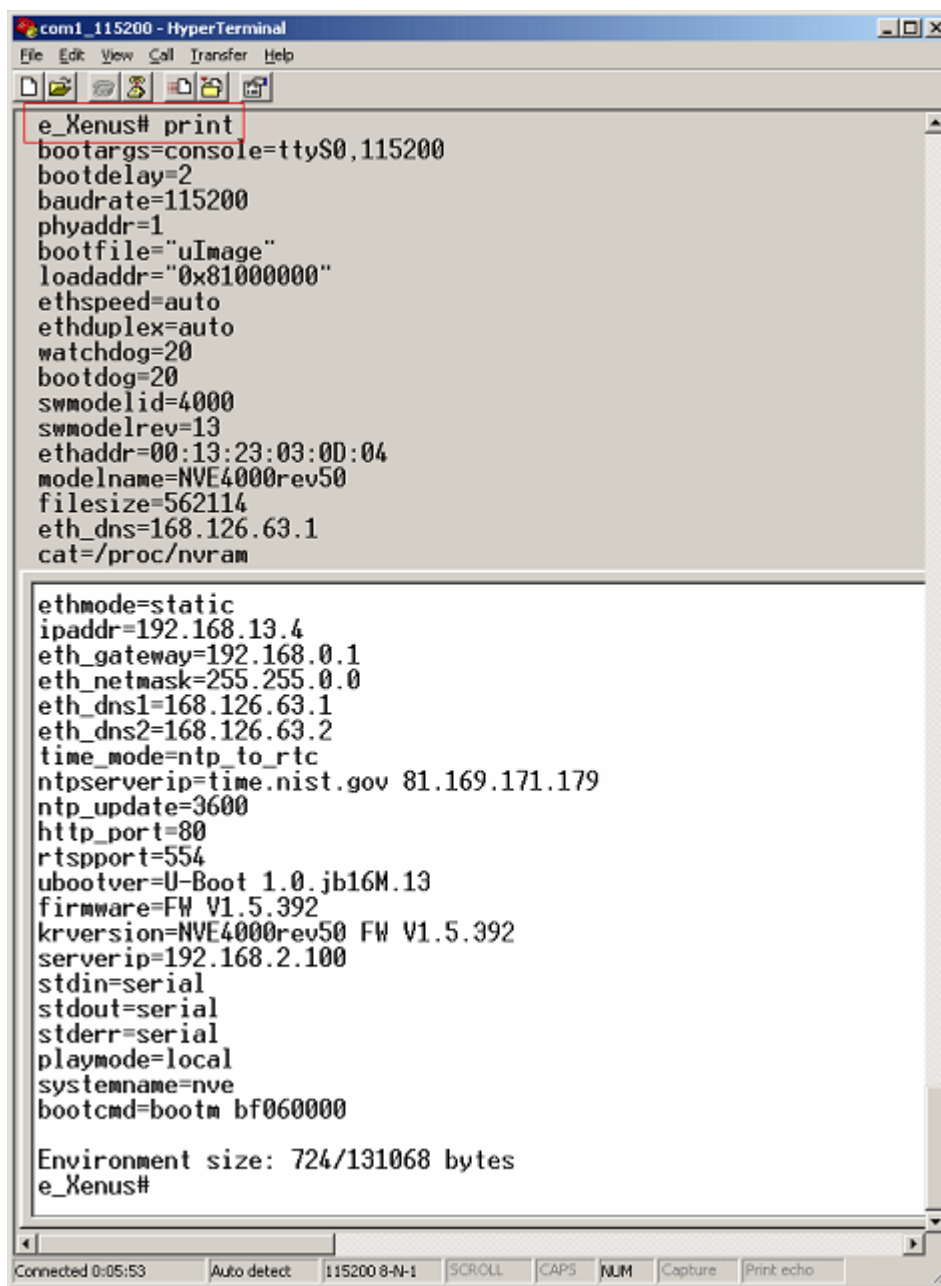
Summary

This article describes how you can change configuration of NVE series products using RS-232C port.

Detailed Information

1. Connect NVE to PC's serial port using null modem cable.
2. Please follow the instructions at '**TN0069E [NVE] How to update firmware using RS-232C.pdf**' until you see *e_Xenus#* prompt.

3. Enter *print* at the prompt. NVE will show configuration values in the flash memory as the following Figure 1.



```
com1_115200 - HyperTerminal
File Edit View Call Transfer Help
e_Xenus# print
bootargs=console=ttyS0,115200
bootdelay=2
baudrate=115200
phyaddr=1
bootfile="uImage"
loadaddr="0x81000000"
ethspeed=auto
ethduplex=auto
watchdog=20
bootdog=20
swmodelid=4000
swmodelrev=13
ethaddr=00:13:23:03:0D:04
modelname=NVE4000rev50
filesize=562114
eth_dns=168.126.63.1
cat=/proc/nvram

ethmode=static
ipaddr=192.168.13.4
eth_gateway=192.168.0.1
eth_netmask=255.255.0.0
eth_dns1=168.126.63.1
eth_dns2=168.126.63.2
time_mode=ntp_to_rtc
ntpserverip=time.nist.gov 81.169.171.179
ntp_update=3600
http_port=80
rtsport=554
ubootver=U-Boot 1.0.jb16M.13
firmware=FW V1.5.392
krversion=NVE4000rev50 FW V1.5.392
serverip=192.168.2.100
stdin=serial
stdout=serial
stderr=serial
playmode=local
systemname=nve
bootcmd=bootm bf060000

Environment size: 724/131068 bytes
e_Xenus#
```

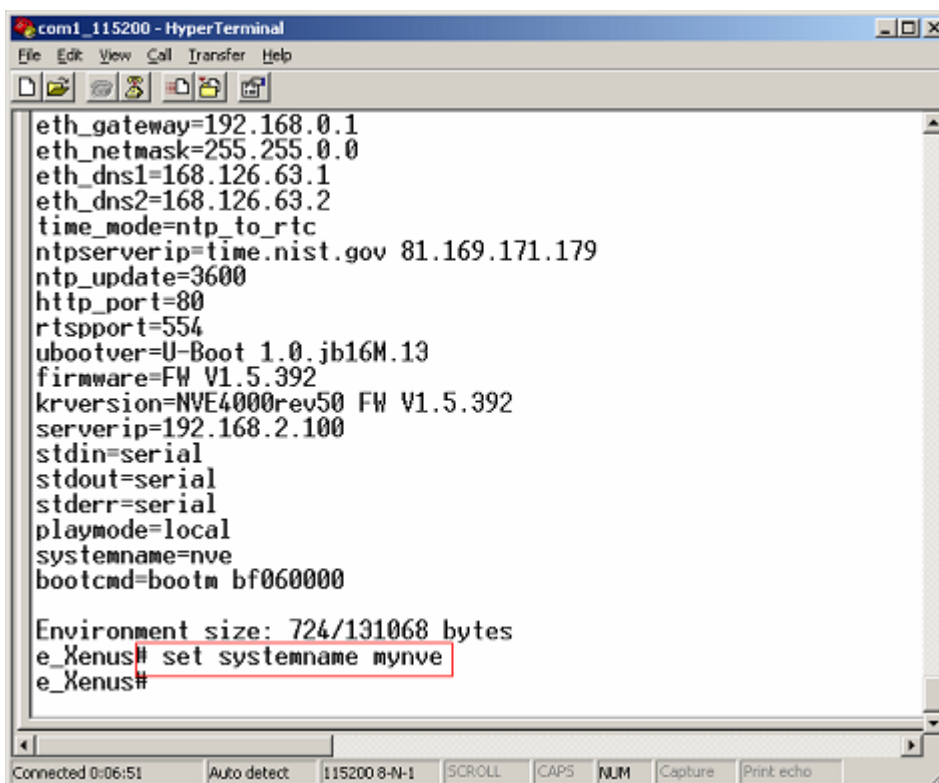
Figure 1. Configuration values

4. The *set* command is used to change a value. The syntax for command, *set* is as the below.

set [name] [value]

If you want to change *systemname* as *myNve*, enter the following command at the prompt.

set systemname myNve



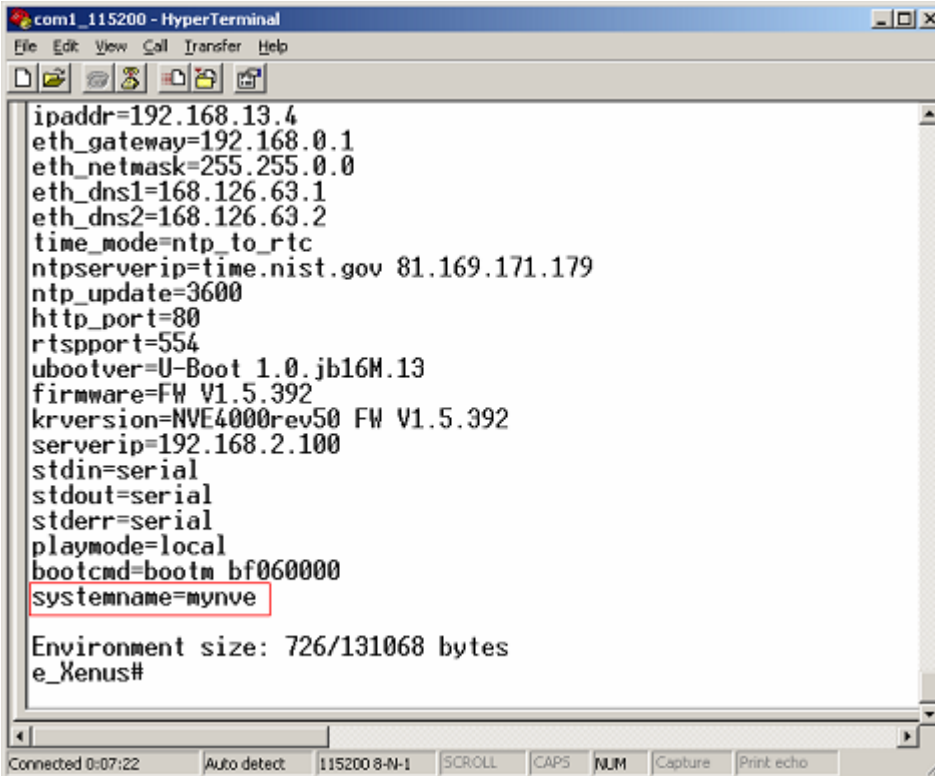
```
com1_115200 - HyperTerminal
File Edit View Call Transfer Help
eth_gateway=192.168.0.1
eth_netmask=255.255.0.0
eth_dns1=168.126.63.1
eth_dns2=168.126.63.2
time_mode=ntp_to_rtc
ntpserverip=time.nist.gov 81.169.171.179
ntp_update=3600
http_port=80
rtspport=554
ubootver=U-Boot 1.0.jb16M.13
firmware=FW V1.5.392
krversion=NVE4000rev50 FW V1.5.392
serverip=192.168.2.100
stdin=serial
stdout=serial
stderr=serial
playmode=local
systemname=nve
bootcmd=bootm bf060000

Environment size: 724/131068 bytes
e_Xenus# set systemname mynve
e_Xenus#
```

Connected 0:06:51 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo

Figure 2. Command *set*

5. Verify whether the value was changed. Enter *print*.

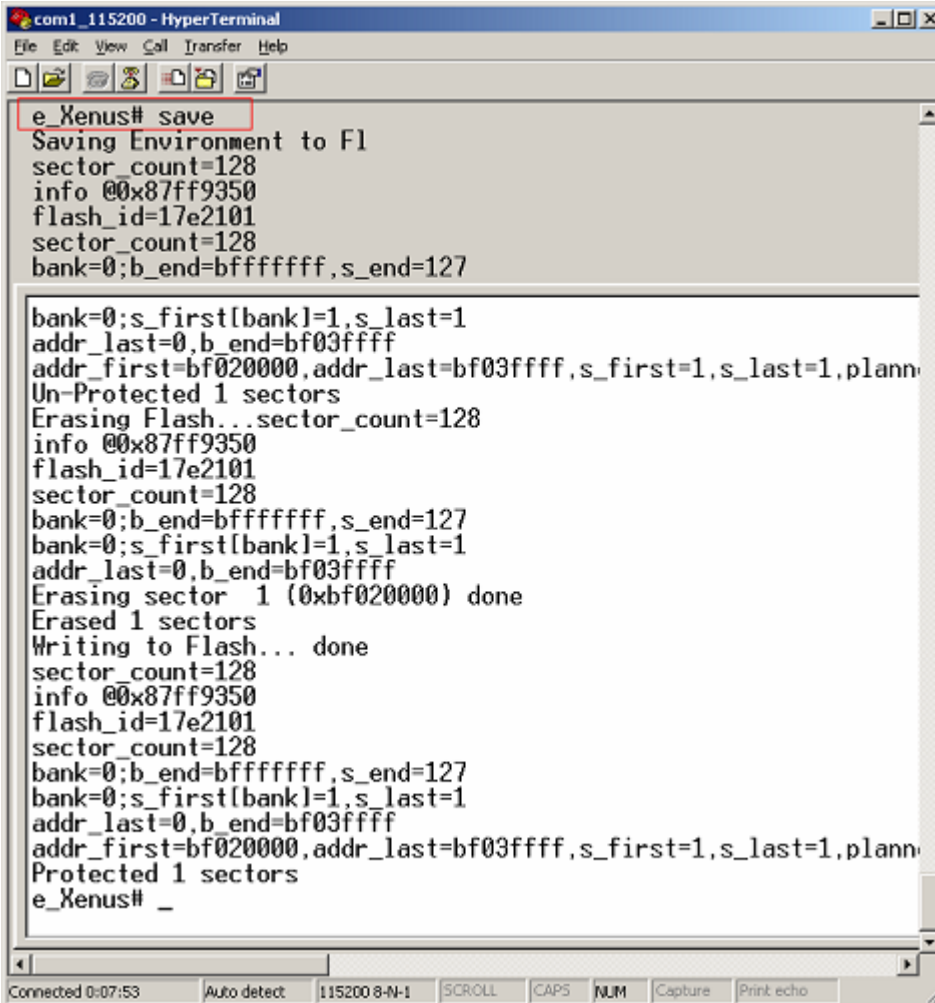


The image shows a HyperTerminal window titled "com1_115200 - HyperTerminal". The window displays a list of system configuration parameters. The parameter "systemname=mynve" is highlighted with a red box. Below the parameters, the text "Environment size: 726/131068 bytes" and "e_Xenus#" are visible. The status bar at the bottom shows "Connected 0:07:22", "Auto detect", "115200 8-N-1", "SCROLL", "CAPS", "NUM", "Capture", and "Print echo".

```
com1_115200 - HyperTerminal
File Edit View Call Transfer Help
ipaddr=192.168.13.4
eth_gateway=192.168.0.1
eth_netmask=255.255.0.0
eth_dns1=168.126.63.1
eth_dns2=168.126.63.2
time_mode=ntp_to_rtc
ntpserverip=time.nist.gov 81.169.171.179
ntp_update=3600
http_port=80
rtspport=554
ubootver=U-Boot 1.0.jb16M.13
firmware=FW V1.5.392
krversion=NVE4000rev50 FW V1.5.392
serverip=192.168.2.100
stdin=serial
stdout=serial
stderr=serial
playmode=local
bootcmd=bootm bf060000
systemname=mynve
Environment size: 726/131068 bytes
e_Xenus#
Connected 0:07:22 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

Figure 3. Verifying value

6. Command, *set* changes a value. But command, *set* does not store the changed value in the flash memory. To store the changed value, enter *save*.



```
com1_115200 - HyperTerminal
File Edit View Call Transfer Help
e_Xenus# save
Saving Environment to F1
sector_count=128
info @0x87ff9350
flash_id=17e2101
sector_count=128
bank=0;b_end=bfffffff,s_end=127

bank=0;s_first[bank]=1,s_last=1
addr_last=0,b_end=bf03ffff
addr_first=bf020000,addr_last=bf03ffff,s_first=1,s_last=1,plann
Un-Protected 1 sectors
Erasing Flash...sector_count=128
info @0x87ff9350
flash_id=17e2101
sector_count=128
bank=0;b_end=bfffffff,s_end=127
bank=0;s_first[bank]=1,s_last=1
addr_last=0,b_end=bf03ffff
Erasing sector 1 (0xbf020000) done
Erased 1 sectors
Writing to Flash... done
sector_count=128
info @0x87ff9350
flash_id=17e2101
sector_count=128
bank=0;b_end=bfffffff,s_end=127
bank=0;s_first[bank]=1,s_last=1
addr_last=0,b_end=bf03ffff
addr_first=bf020000,addr_last=bf03ffff,s_first=1,s_last=1,plann
Protected 1 sectors
e_Xenus# _

Connected 0:07:53 Auto detect 115200 8-N-1 SCROLL CAPS NUM Capture Print echo
```

Figure 4. Command *save*

7. Enter *boot* to boot Linux.

Revision History

Revision	Date	Description
A	2007-1-25	Created.