

Network Management Card

Firmware Upgrade SOP

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First part: Prepare UPS, NMC (Network Management Card), a computer

Please Note: If there is NMC running and user has known the IP address of NMC, user can skip first part and second part to go third part.

Step1: Insert NMC into the UPS slot correctly, and make sure the card is connected to the slot tightly.

Step2: There is a communication cable provided from package, please link the card and computer via the cable. Insert the RJ45 port into the “SETTING” port of the card, and connect DB9 port to the RS232 port of computer. Please refer to the following picture.

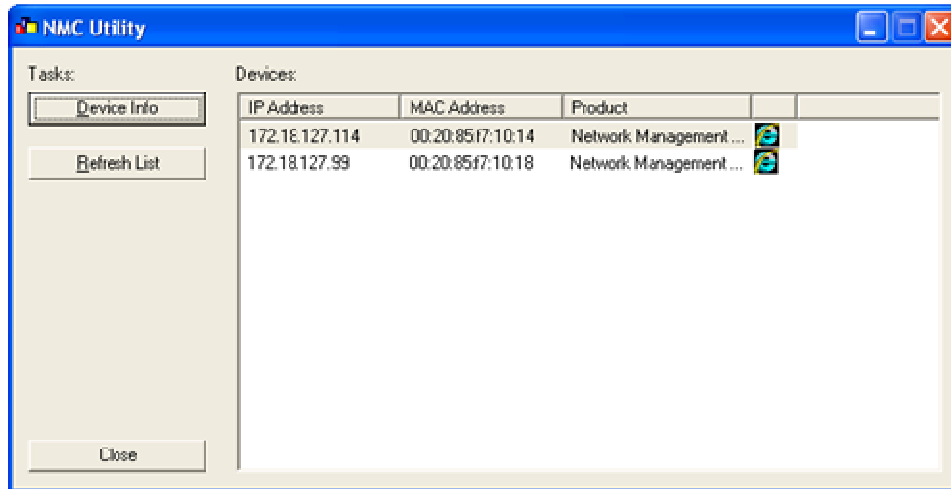
Step3: Connect NMC to network via “NETWORK” port



Second part: View NMC IP address

There are two methods to view NMC IP address. One is view IP address by NMC Utility software; the other is view IP address by Hyper Terminal, the detail information about Hyper Terminal is Step1 to Step6 in this section.

User can find NMC automatically and quickly in the LAN by NMC Utility software. Please refer to the following diagram.



View IP address by Hyper Terminal as the following steps: from step1 to step6.

Step1: Open the Hyper terminal tool from Windows platform. Please refer to the following picture S-Step1.

Start -> Programs -> Accessories -> Hyper Terminal.



S-Step1

Step2: Enter a name and click OK, please refer to the following picture S-Step2.



S-Step2

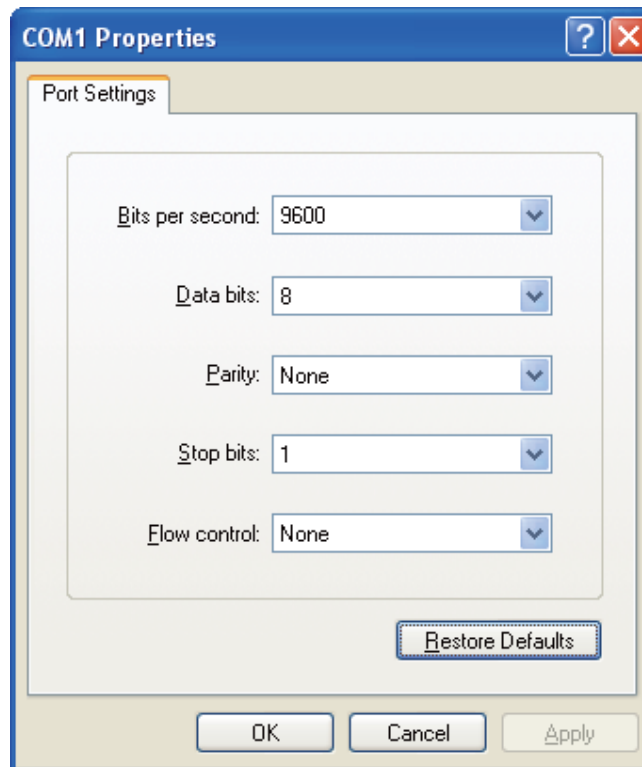
Setp3: Select the correct COM port and click OK, please refer to the following picture S-Step3.



S-Step3

Step4: Configure the port setting as 9600 bps, 8 data bits, none (parity), 1 Stop bit and

None Flow Control, then click OK. Please refer to the following picture S-Step4.



S-Step4

Step5: Press the "Enter" key from keyboard, and wait for the card information shown, when you see the information shown as the following picture S-Step5, please input the default password "password" and the Network Management Card configuration menu will be shown on the screen as the following picture S-Step6-1.

```
+-----+
|           Network Management Card Configure Menu           |
+-----+
Password:*****
```

S-Step5

Step6: Input "1" to enter the IP configuration menu to view or configure the IP address. For example, you can see the IP Address as the following picture S-Step6-2.

```
+-----+
|           Network Management Card Configure Menu           |
+-----+
1. IP Configurations
2. Pass Through
3. Reset Configuration to default
4. Restart
5. Password
0. Exit
Please Enter Your Choice ->
```

S-Step6-1

```
+-----+
|                               IP Configure Menu                               |
+-----+
MAC Address      : 00:20:85:F7:10:18
1. DHCP          : Enabled
  IP address     : 172.18.127.122
  Subnet mask    : 255.255.255.0
  Gateway        : 172.18.127.1
  Primary DNS address : ::FFFF:172.18.121.17
  Secondary DNS address: ::FFFF:151.110.232.21
7. IPv6 Configure
0. Return to previous menu
```

Please Enter Your Choice :

S-Step6-2

Third part: Upgrade firmware via web browser

Please Note: The upgrade process will take you several minutes, please waiting with your patience.

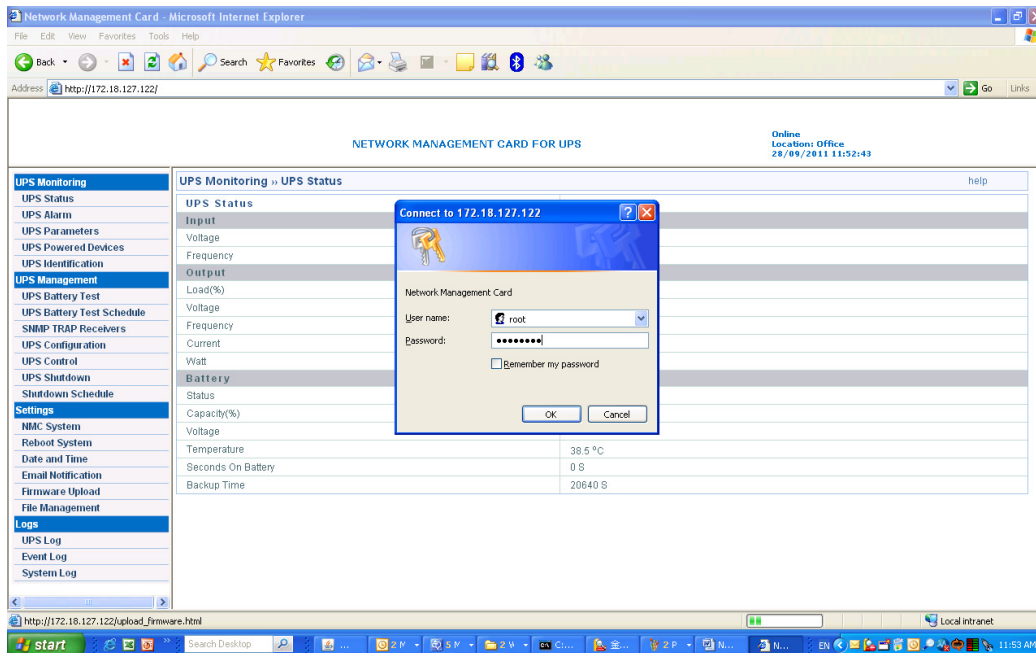
There are two files to be updated, rom.bin and image.bin. Please upload rom.bin first, after upload it successfully, and then upload image.bin.

Step1: Open the web browser, and input the IP address, such as 172.18.127.122, in the Address text box, Web page will be shown as the following picture T-Step1. You can know the IP address of the card from step6 of the second part operation.

UPS Status	
Input	Line
Voltage	226.5 V
Frequency	49.9 Hz
Output	
Load(%)	0
Voltage	221.5 V
Frequency	49.9 Hz
Current	0.3 A
Watt	0 W
Battery	
Status	Battery Normal
Capacity(%)	100
Voltage	41.1 V
Temperature	38.5 °C
Seconds On Battery	0 S
Backup Time	20700 S

T-Step1

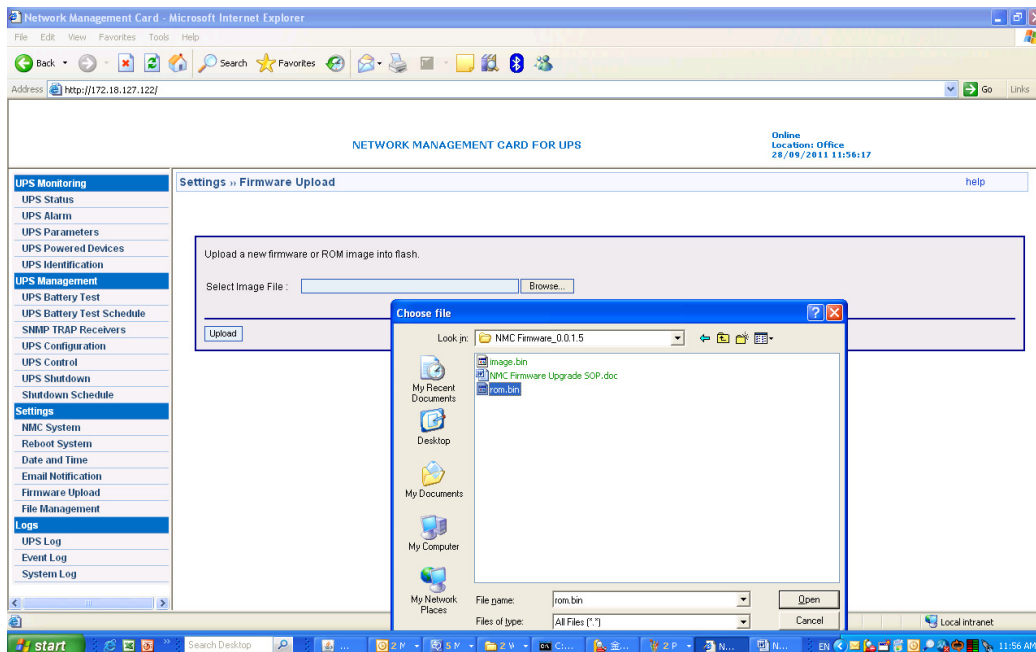
Step2. Click Settings→Firmware Upload menu on the left window, and there will be a dialog pop-up to require you input user name and password. Please refer to the following picture T-Step2. Please input user name: **root**, password: **password**



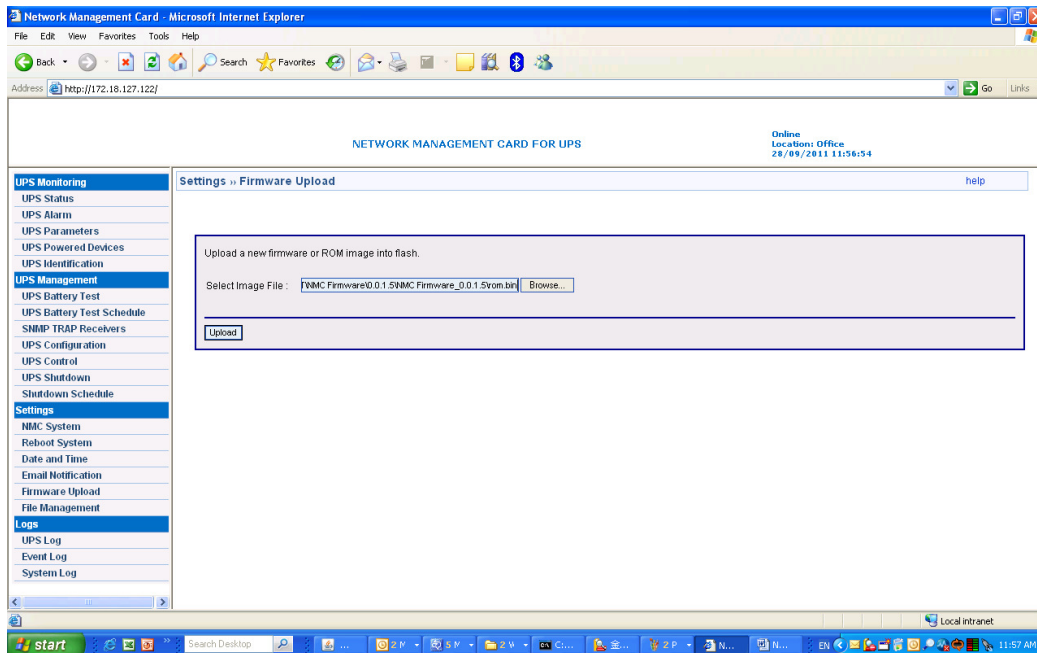
T-Step2

Step3: Select the rom.bin file that ready for upgrade by clicking the 'Browse' button. Please refer to the following picture T-Step3-1, and press 'Upload' button to start the firmware upgrade. Please refer to the following picture T-Step3-2.

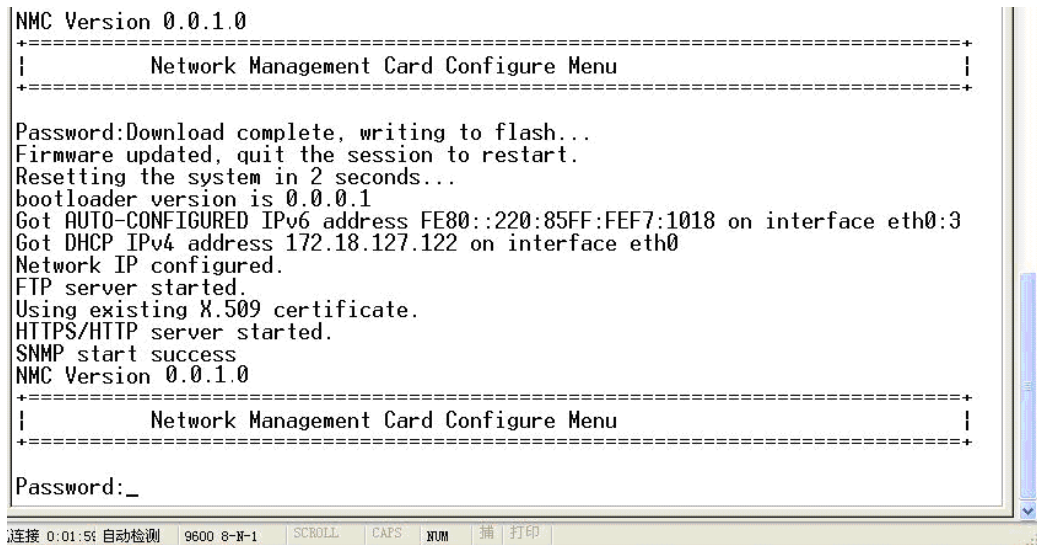
In the process for updating the rom.bin, you can view the information shown on Hyper Terminal to make sure the rom.bin upload OK and the card reset OK. If upload successfully, the information will be shown as T-Step3-3.



T-Step3-1



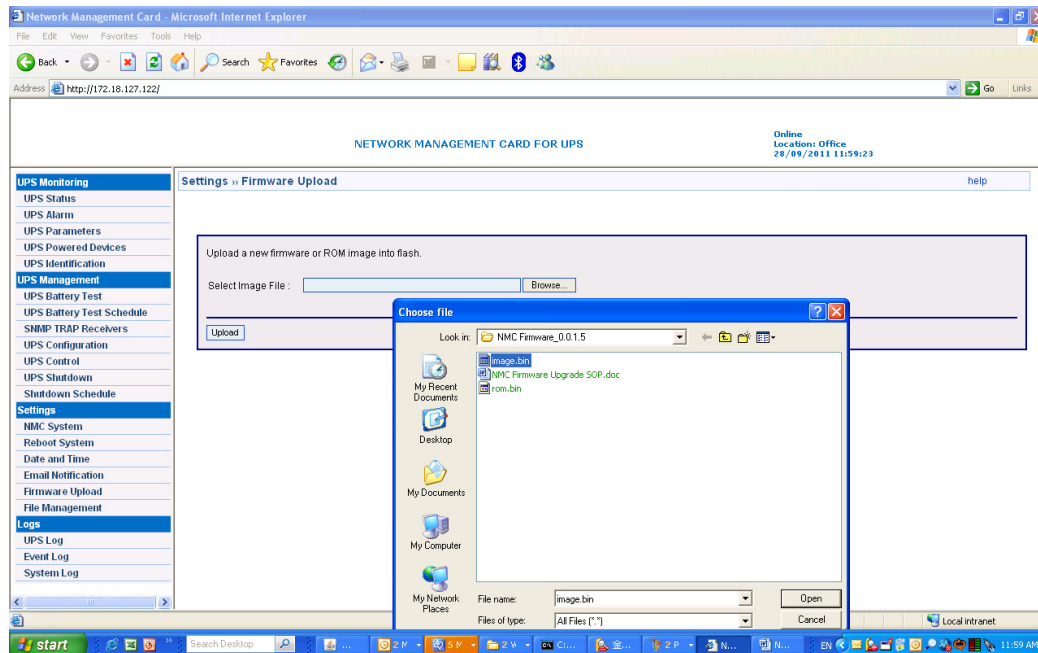
T-Step3-2



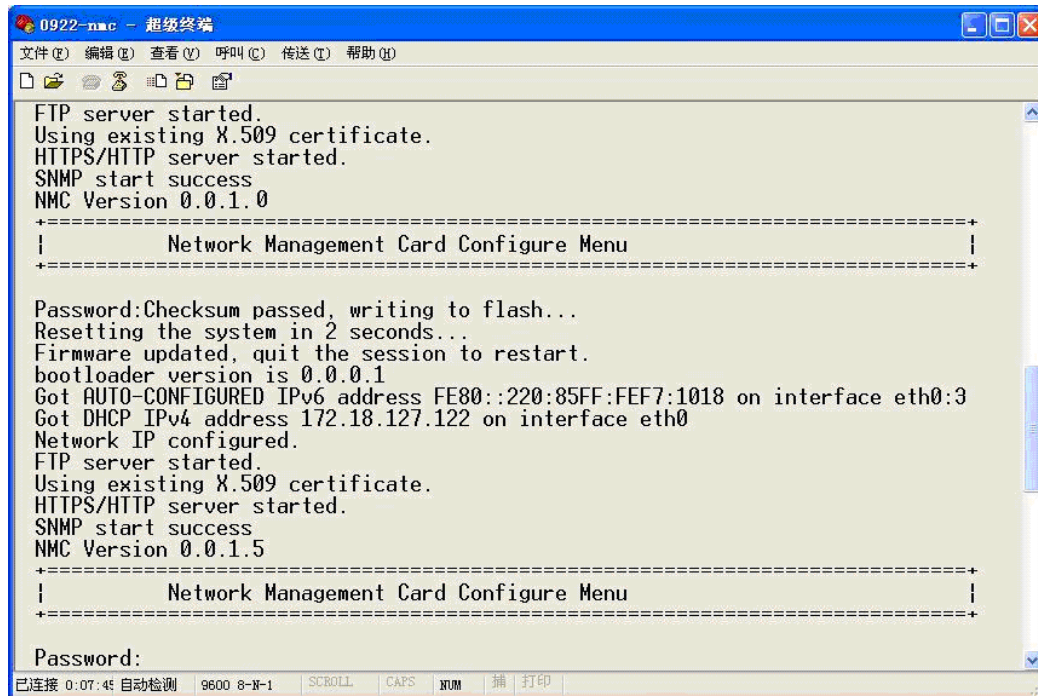
T-Step3-3

Setp4: After the rom.bin file is upgraded successfully. Refresh the web browser to make sure the card communication OK. Repeat the Step2 of the third part and select the image.bin file that ready for upgrade by clicking the 'Browse' button. Please refer to the following picture T-Step4-1, and press 'Upload' button to start the firmware upgrade.

In the process for updating the image.bin, you can view the information shown on Hyper Terminal to make sure the image.bin upload OK and the card reset OK. If upload successfully, the information will be shown as T-Step4-2



T-Step4-1



T-Step4-1

Step5: After rom.bin and image.bin update successfully, you can confirm the firmware version in “UPS Identification” page, Please refer to the following picture T-Step5.

Note: if you can’t refresh the IE successfully, please close IE and reopen, input the correct IP address of NMC to view UPS status.

Network Management Card - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Print Mail Bluetooth

Address http://172.18.127.122/ Go Links

NETWORK MANAGEMENT CARD FOR UPS

Online
Location: Office
28/09/2011 12:01:12

UPS Monitoring

- UPS Status
- UPS Alarm
- UPS Parameters
- UPS Powered Devices
- UPS Identification

UPS Management

- UPS Battery Test
- UPS Battery Test Schedule
- SNMP TRAP Receivers
- UPS Configuration
- UPS Control
- UPS Shutdown
- Shutdown Schedule

Settings

- NMIC System
- Reboot System
- Date and Time
- Email Notification
- Firmware Upload
- File Management

Logs

- UPS Log
- Event Log
- System Log

UPS Monitoring » UPS Identification help

UPS	
UPS Model	Online
UPS Description	
Firmware Version	11.00

Network Management Card	
Firmware Version	0.0.1.5
MAC Address	00:20:85:f7:10:18

Done Local Intranet

T-Step5