



# **Netis VIEW Integrated Network Management System**

**Server Manual**

## Statement

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# Preface

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This preface includes the following:

- Audience

- Related conventions

## Audience

This manual is mainly for the following readers:

- Engineering staff

- Device Developers

- Equipment maintenance personnel

Use this manual requires prior knowledge to master the following

- Data communication technology








- Network Management Technology

## Related conventions

Term agreement

| Term     | Meaning                                       |
|----------|---|
| NGBNView | NGBNVIEW Integrated Network Management System |
| Mysql    | NGBNView use Mysql database                   |

## Symbol Conventions

| Icon  | Tip Type            | Tip matters   |
|---|---------------------|---|
|    | Tip                 | Important features or instructions  |
|    | Note                | Maybe interested in personal injury or damage to the system, or cause business interruption or loss |
|    | Warning             | May cause significant harm to human life  |
|  | Jump to pay         | Steps to jump to the next steps   |
|  | Cascading menu      | Connecting multi-level menu items   |
|  | Two-way business    | Direction for the two-way traffic signal  |
|  | Individual business | Traffic signal direction for the individual   |

# Directory

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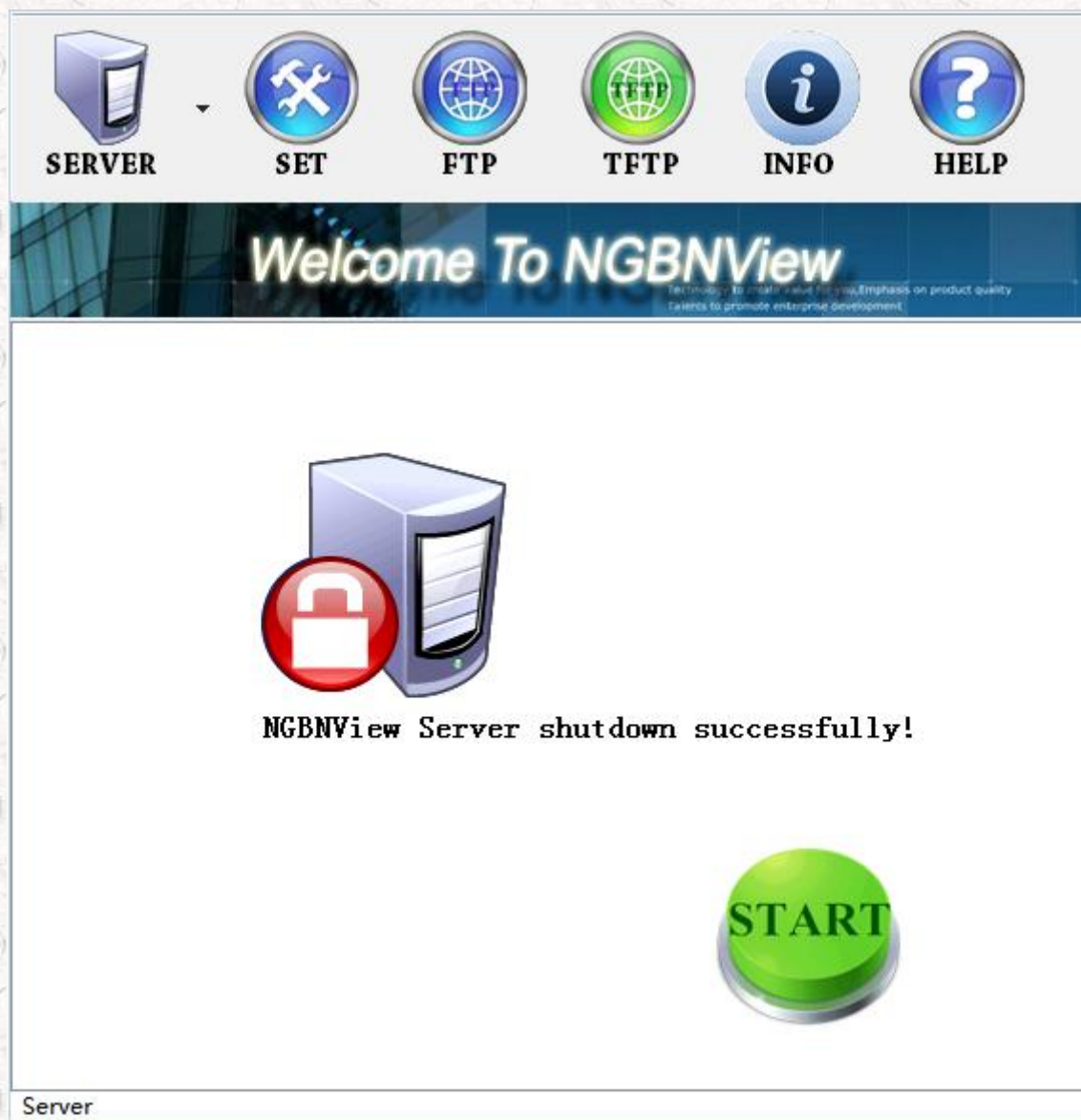
# Server Manual

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## Main Interface

Click on the Start menu or the desktop 'server' icon will open the server start up screen, as shown below:





picture1-1 Main Interface

Click the 'Minimize' button column will appear in the system an icon,

as shown below:



picture1-2 Server Icon

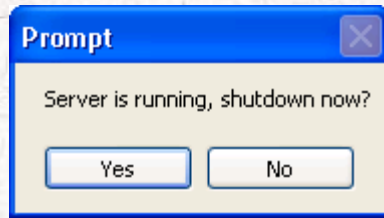
## Server Menu



picture1-3 server menu

- 1、Click on the icon, as shown in Figure 1-1appearsinterface(the interface will start behind the corresponding icon)
- 2、Click on the small triangle appears after two pull-down menu as shown above
  - 1) Auto start server: When the next time you open the software, start the server directly, without having to click on the start button.
  - 2) Close: Shut down the server, while the server is running, then click on Close will prompt appears as shown below:





picture1-4 shut down Message when running

## Not-Start Interface

When the server is not started, the interface is as follows.



**NGBNView Server shutdown successfully!**



picture1-5 Not-start Interface



is a icon, it means server is not running.



is a icon, it means the server is starting or closing.



is a icon, it means the server starts successfully.



it is the start button, click the button, it will start the server.

Description: Start button, stop button, reset button has a corresponding shortcut key, you can move the mouse buttons at the bottom status bar will display the corresponding shortcut keys.

Start button——ctrl + S

Restart Button——ctrl + R

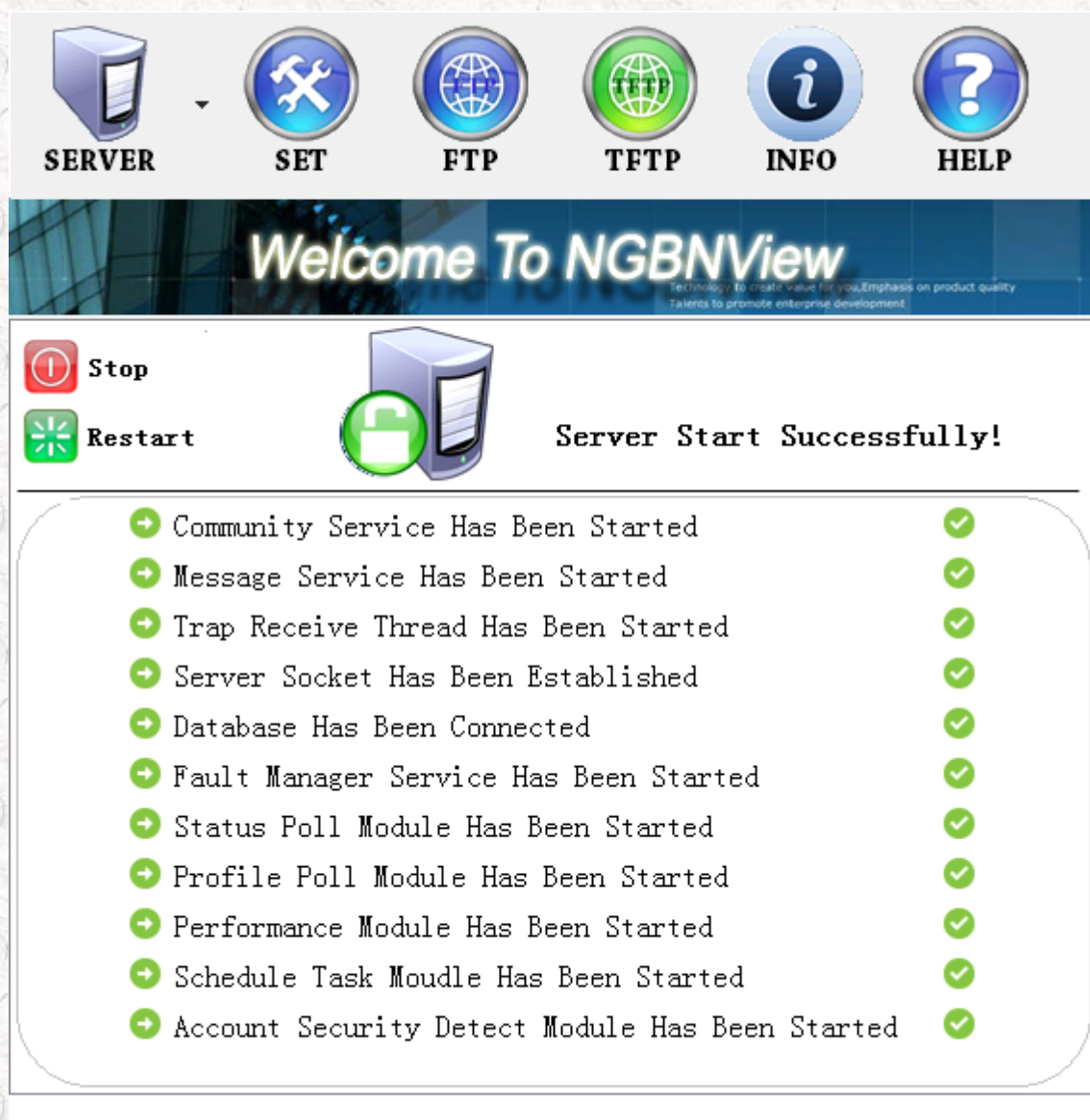
Stop Button——ctrl + D



Tip: General button or menu item, when you click on the simple description will appear in the status bar at the bottom..

## Start Interface

When you click the start button, the start screen will appear as shown below.



picture1-6 Start Interface



Close button to close the server, but does not exit the program, not just back to the start screen.



Restart button to restart the server.



means the service / module is turned on.



means the service/module startup success.



means the service/module fails to start.



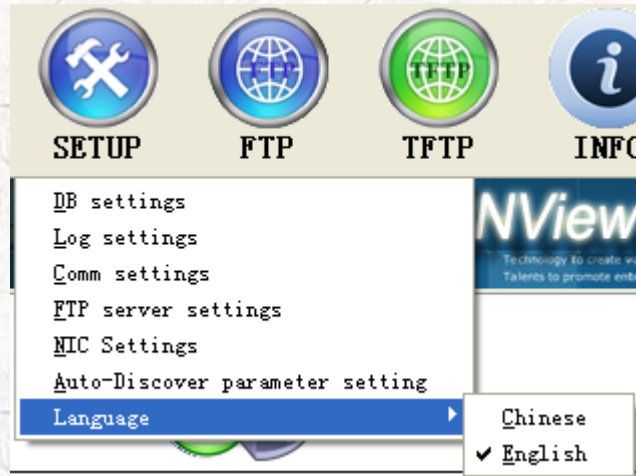
Tip: When a service/module fails to start, when the mouse is in the region, the abnormal status bar at the bottom of the information.

Exception Information: 162 port is occupied by other programs, so can't receive SNMP Trap

picture1-7 Exception Information



## Setup Menu



picture1-8 Setup Menu

## DB Settings

Click the item, the interface is shown as below.

Param settings [DB]

DB type: MYSQL

Conn addr: 127.0.0.1

Conn port: 3539

User: root

Password: xxxxxxxx

DB Poll Second: 10 Sec

☒ Prompt in startup

Sure Reset

picture1-9 DB settings Interface

DB type: Set the type of DB, default MYSQL, and it can not be changed.

Conn addr: Addresses connecting to the database, usually connected local address.

Conn port: Port of the DB.

User: User name of the DB.

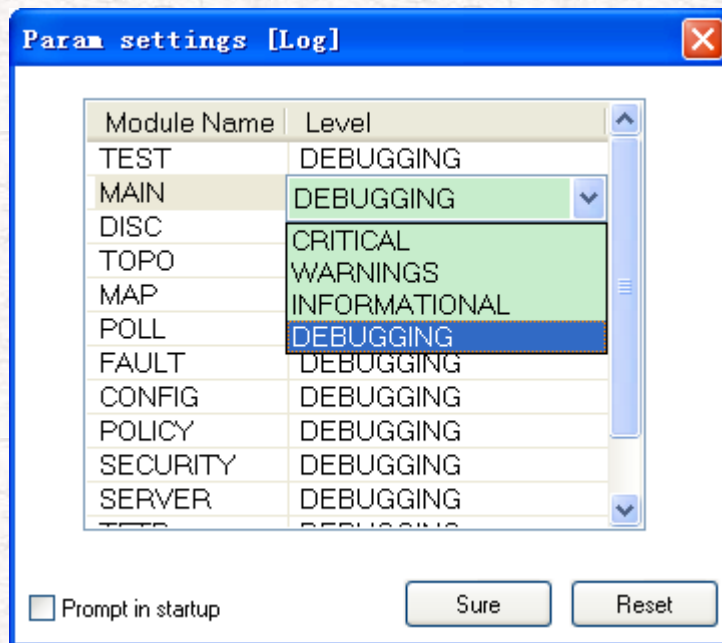
Password: Password of user.

DB poll second: Set the poll time of DB.

Prompt in startup: After selecting the item, you will first appear

before the start of this interface.

## Log Level

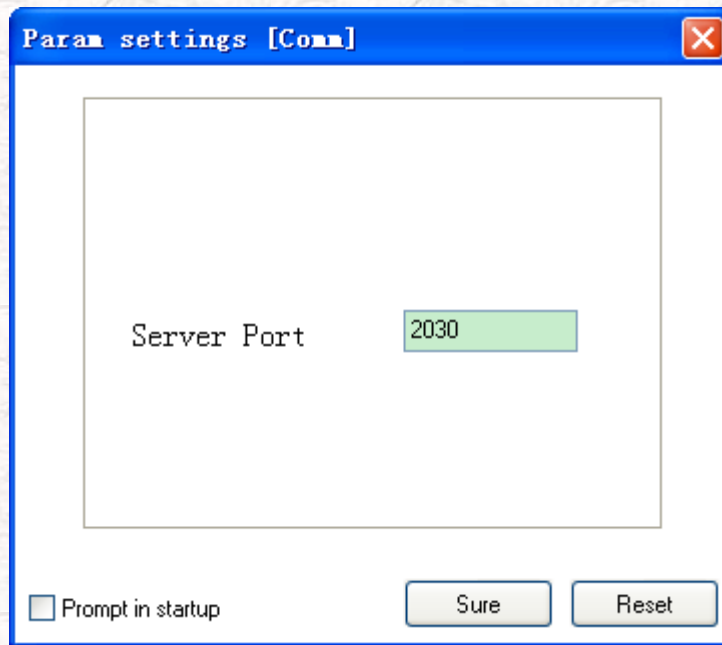


picture1-10 Log Level Setting Interface

**Module Name:** Name of Module.

**Log Level:** Dynamically modify the current level of server log information output. Log Information Level Total CRITICAL, WARNINGS, INFORMATIONAL and DEBUGGING four levels to choose from

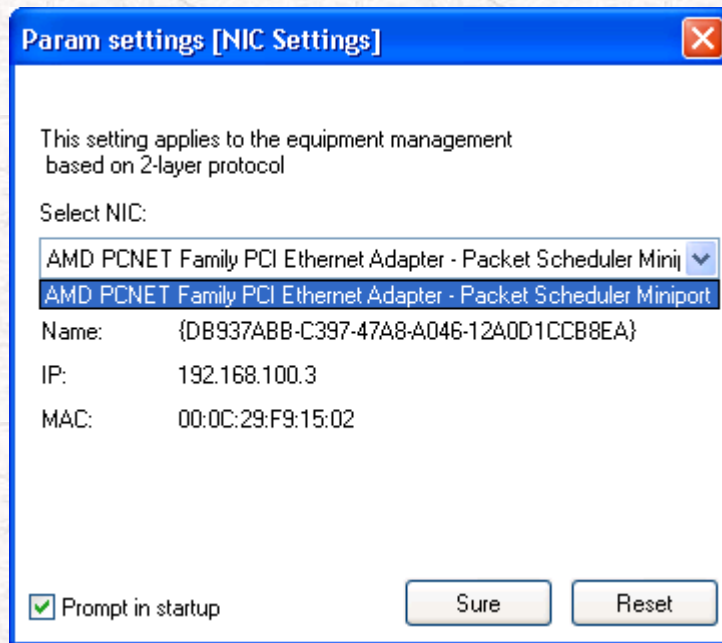
## Param settings for Communication



picture1-11 Server Communication Setting Interface

Server Port: Set the server's port number, the port number for the client communication

## NIC Settings



picture1-12 NIC Setting Interface

**Select NIC:** Select NIC, default will be OK.

## Auto Discovery



**Param settings [Auto Discover]**

☒ Whether run the auto discover function

☒ Whether discover the local network

The time to find next node(1-60):  Sec

Number of retries of ICMP Ping(0-10):

Snmp time out(1-10):  Sec

Number of retries of SNMP Ping(0-10):

The setting in this page will work when the server restarts

☐ Prompt in startup

picture1-13 Auto Discovery Parameter Setting Interface

**Whether run the auto discovery function:** when it is checked, the server will discover device auto, and regular poll the device.

**Whether discover the local network:** when it is checked, it will discover network auto.

## SNMP V3 User Settings

This function is mainly used to receive SNMP V3 Trap, when set up in the device SNMP V3 Trap, to set a good SNMP V3 fill information into this dialog box, When the device is issued when there is V3 Trap, timely detected and displayed the

Trap message in client. Interface is as follows:

Param settings [SNMP V3 User Settings]

Operation

☐ Set SNMP V3 user

☒ Add User ☐ Edit User ☐ Delete User

Setting

Security Name

Authentication Protocol  Privacy Protocol

Authentication Password  Privacy Password

The setting in this page will work when the server restarts

picture1-14SNMP V3 User Settings Interface

**Set SNMP V3 user:** whether set the V3 users.

**Add User:** Add SNMP V3 user.

**Edit User:** Edit the already exist Users.

**Delete User:** Delete already exist Users.

**Security Name:** Consistent set of user and device security name.

**Authentication Protocol:** None, MHAC-MD5 and MHAC-SHA three ways.

**Privacy Protocol:** None and CBC-DES two ways.



Note: This dialog parameter settings are parameters set by the user when receiving SNMP V3 Trap in the device, rather than just their own definition of.

## Redundant Server

This function is mainly used to build the backup server when the primary server problems, network client automatically connect to the backup server, the user can use the network management function properly. Redundant server parameter setting interface as follows:

Param settings [Redundant Server]

☐ Open Redundancy Server

☒ Main Server ☐ Slave Server

Redundancy SQL Parameter

Redundant Server Addr 127.0.0.1

Slave Server Port 2030

Data Transmit Port 2040

DB Conn port 3539

User root

Password xxxxxxxx

☒ Prompt in startup

Sure Reset

picture1-15Redundant Server Interface

**Open Redundancy Server:** open the Redundancy function.

**Redundant Server Addr:** master/slave server's IP address.

**Slave Server Port:** master/slave server's port.

**Data Transmit Port:** Build a synchronous environment, used to transmit data to the port number.

**DB Conn port:** Connect Local database port.

**User:** Login Username local database.

**Password:** Login password for the local database.

## Language Setting

Currently only supports Chinese and English, when running under Chinese environment, want to run the English environment, you must first shut down the server and then switch the language, the language switch if you are running the server prompt will appear as shown below.

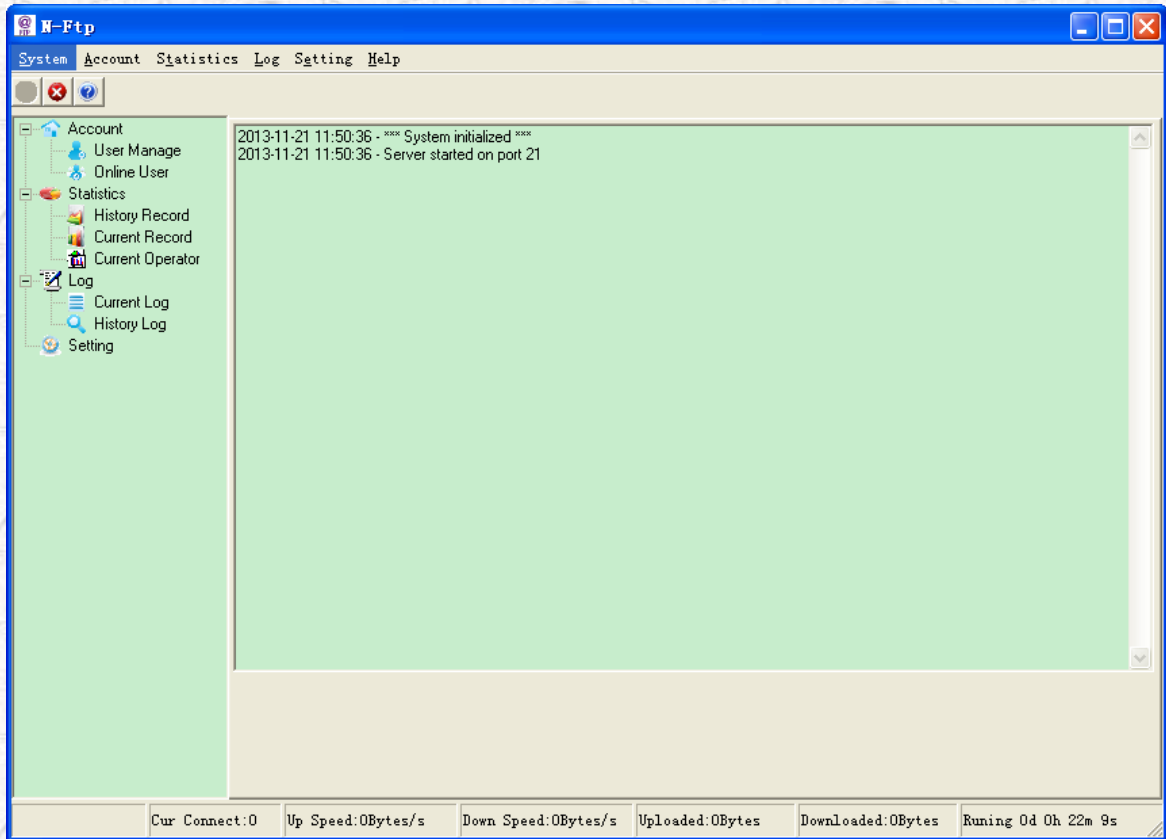


picture1-16 Language switch tips

## FTP



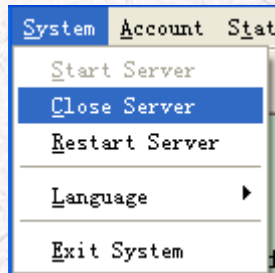
Click the menu, the interface as shown below



picture1-17 N-FTP Server

(1) System menu as shown below.



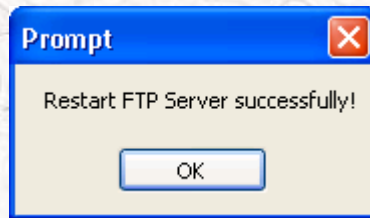


picture1-18 System

Start Server: Start N-FTP Server.

Close Server: Close N-FTP Serve.

Restart Server: Restart N-FTP Server.



picture1-19 Restart Server

Language: Currently only supports Chinese and English.

Exit System: Exit N-FTP Server.



Note: shut down, restart, exit the server selected, have a prompt whether to select this operation, the operation is executed, or not executed.

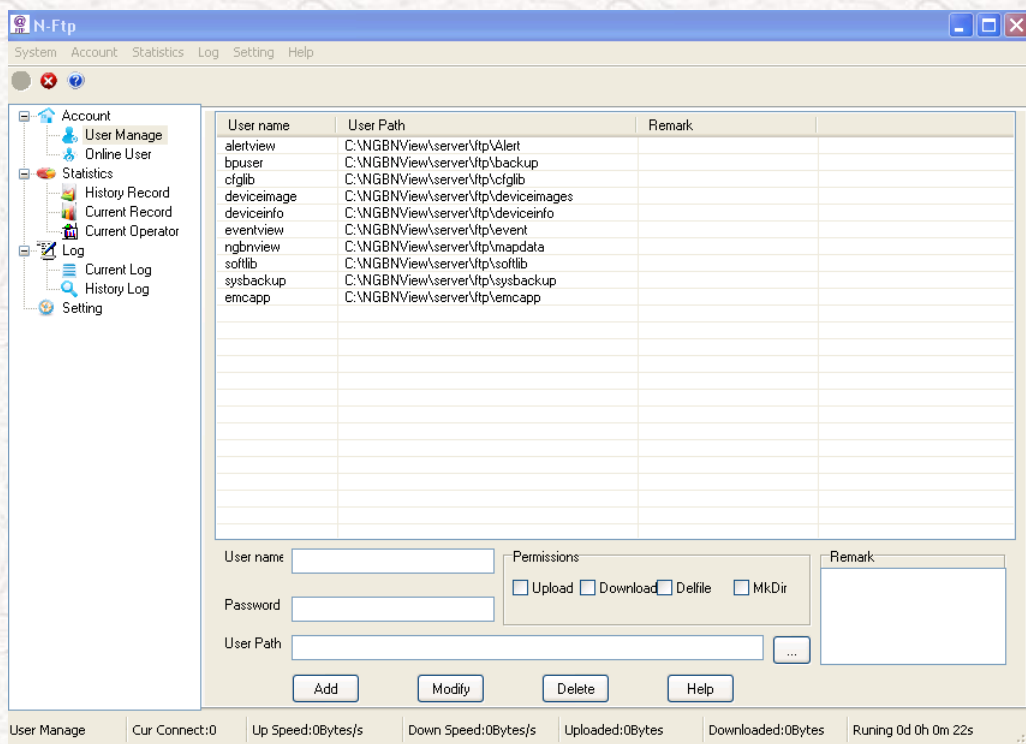
(2) Account Menu.



picture1-20 Account

Divided into user management and online users. User management can increase the user to delete modify operation. Online users show online user name, IP address and other basic information Socket keyword

①**User Management:** Divided into user management and online users. User management can increase the user to delete modify operation. Online users show online user name, IP address and other basic information Socket keyword.



picture1-21 User Management

### Control Description:

- 1、Length limit: username and password maximum length of 32 bytes, the maximum length is 68 bytes catalog, notes a maximum length of 200 bytes;
- 2、Username only combinations of characters or numbers;
- 3、Permissions correspondence: Upload to upload the corresponding user permissions. Download the user to download the

corresponding authority. Delete: delete files with user permissions, the new corresponding user permissions to the new directory. Other privileges such as deleting directories, rename, etc. all have default permissions.

#### Operation Description:

1、 By increasing the Delete button for the user to modify the appropriate action, through the Refresh button to refresh the user information.

2、 The user can be deleted by right and refresh operation

3、 Mouse to select the user, the user's details and information will be displayed below the corresponding control. Then click the appropriate button for the user to operate.

②**Online User:** it will display the online user.

(3) Statistics.



picture1-22 Statistics Menu

①**History Record**: Query server operating information day by day by selecting a date. Select the drop-down box in the lower right corner of the file operation records need to find a date, choose a good post, you can click Find.

②**Current Record**: Display server boot to complete the details of the operation currently documented. As shown.

| User name   | File name   | User Path  | Operator...   | Start time          | End time            | Operator... | Size      |
|-------------|-------------|------------|---------------|---------------------|---------------------|-------------|-----------|
| deviceimage | 2024eii...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,616 Kb  |
| deviceimage | 2024ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,610 Kb  |
| deviceimage | 2024mi...   | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,613 Kb  |
| deviceimage | 2600ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 5,67 Kb   |
| deviceimage | 2926sic...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,616 Kb  |
| deviceimage | 2926vic...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,641 Kb  |
| deviceimage | 3026ef...   | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,826 Kb  |
| deviceimage | 3026eic...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,676 Kb  |
| deviceimage | 3026etfi... | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,797 Kb  |
| deviceimage | 3026sico... | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,676 Kb  |
| deviceimage | 3042ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,730 Kb  |
| deviceimage | 3650ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,856 Kb  |
| deviceimage | 3660ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 5,40 Kb   |
| deviceimage | 3750ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,853 Kb  |
| deviceimage | 5100ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 4,1014 Kb |
| deviceimage | 8600ico...  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 5,72 Kb   |
| deviceimage | switch.jpg  | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,872 Kb  |
| deviceimage | twolevel... | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 1,1 Kb    |
| deviceimage | 框式...       | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 4,320 Kb  |
| deviceimage | 盒式ico...    | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 3,788 Kb  |
| deviceimage | 盒式ico...    | C:\NGBN... | Upload        | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 3,443 Kb  |
| deviceimage | /           | C:\NGBN... | Get File List | 2014-04-25 13:56... | 2014-04-25 13:56... | 0s          | 0Bytes    |
| deviceimage | /           | C:\NGBN... | Get File List | 2014-04-25 13:57... | 2014-04-25 13:57... | 0s          | 0Bytes    |

Total: 198    each 25    pageThe 8 / 8 page    <<    <    >    >>    Refresh    Delete

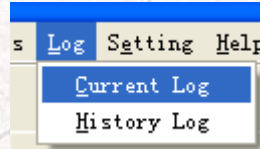
Current Record    Cur Connect:0    Up Speed:0Bytes/s    Down Speed:0Bytes/s    Uploaded:535,294 Kb    Downloaded:331,659 Kb    Running 0d 0h 4m 17s

picture1-23 Current Record

③**Current Log**: Show details being uploaded download files.



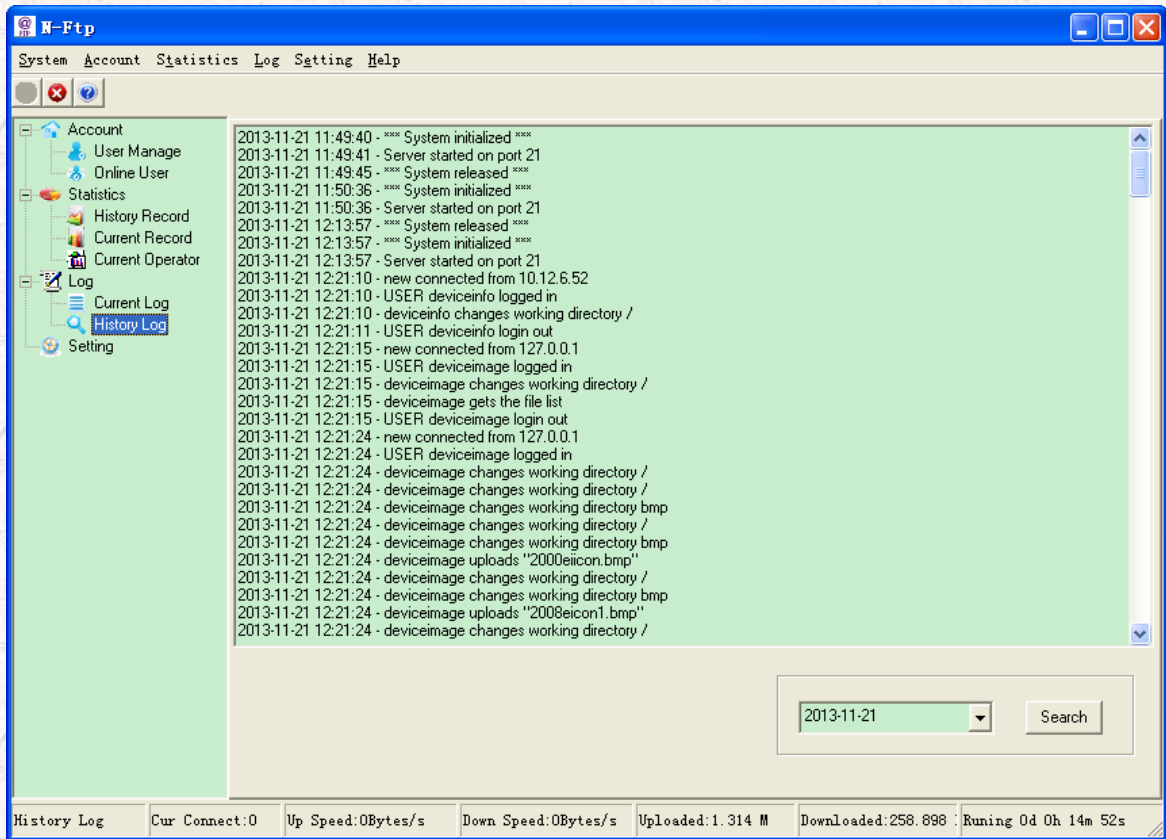
(4) Log menu as shown below.



picture1-24 Log Menu

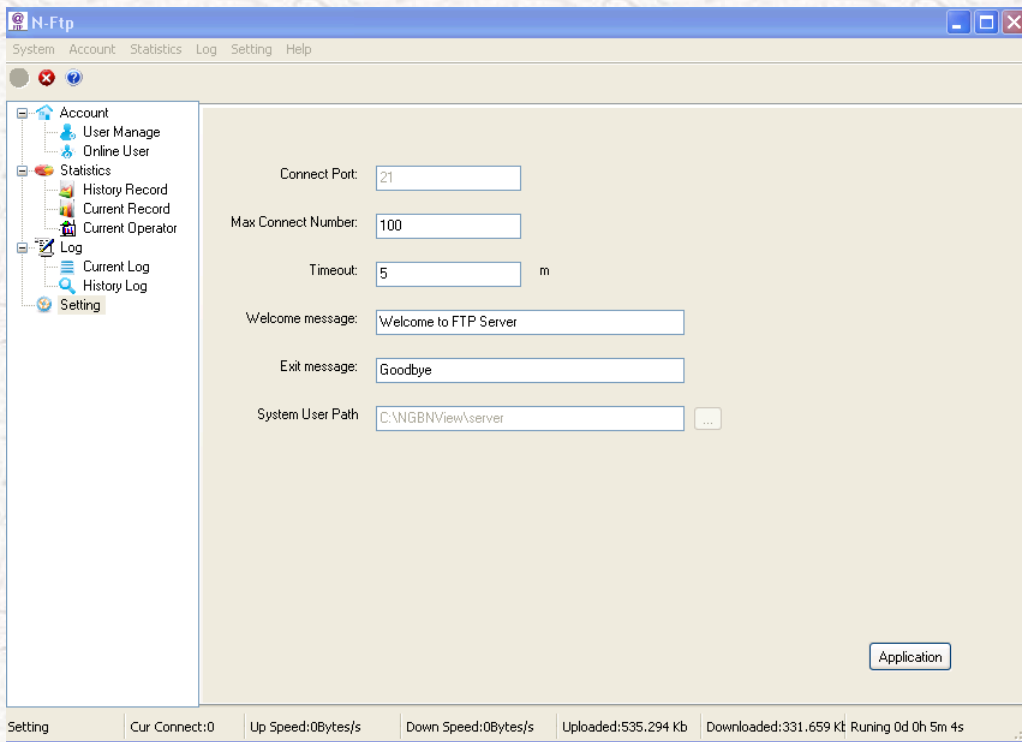
①**Current Log**: Real-time display server operating information, such as system initialization, the server port and other information.

②**History Log**: Show previous operating information, such as client connections, user login, etc., through the date of the bottom right corner of the drop-down box, select the log you want to view, click Find, appear as shown below.



picture1-25 History Log

(5) Setting is as shown below.



picture1-26 Setting

Set some parameters server

**Connect Port:** Port number of server connections, FTP server defaults to 21.

**Max Connect Number:** The maximum number of users connected to the FTP server.

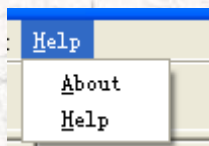
**Timeout:** Timeout for connection time server.

**Welcome Message:** Information is displayed when you log in to FTP server.

**Exit Message:** Information is displayed when you exit the FTP server.

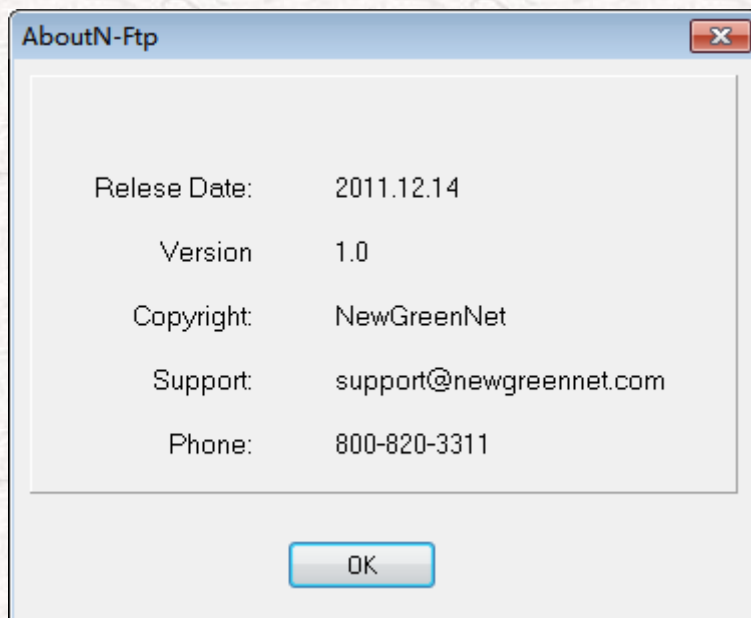
**System User Path:** The FTP server storage directory.

(5) Help.



picture1-27 Help Menu


①**About N-ftp:** it will display the version and Service of FTP

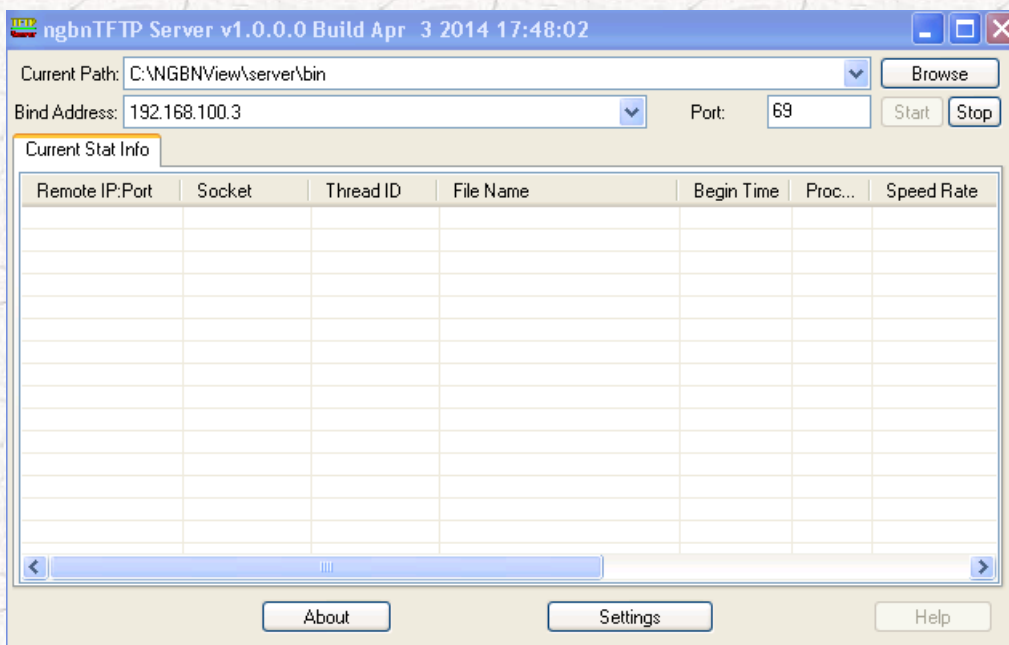


picture1-28 About

# TFTP



 When this menu item will start the TFTP server. As shown below. This feature is for the client to upload or download provides TFTP service.

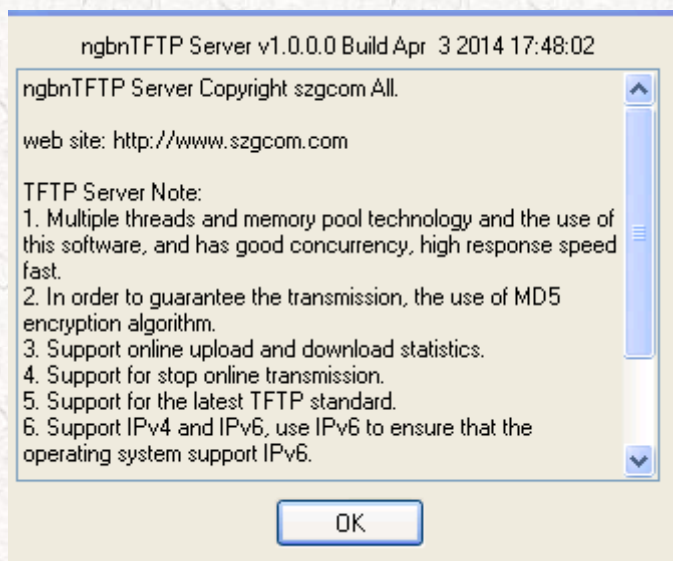


picture1-29 TFTP Server

- ①**The Current Path:** Root path. Can be set via the browser.
- ②**Binding Address:** tftp server's IP address.
- ③**Run/Stop:** running tftp server..
- ④**About:** Show the TFTP server functionality introduced, as shown



below.



picture1-30 TFTP Server Introduction

⑤**Setting**: it is used to setting for the TFTP server. As shown Below.

picture1-31 TFTP Server Setting

**TFTP'root Dir:**Set TFTP server root directory path. Could change the path by browsing

**LogDir:**Path to save the log. Could change the path by browsing.


**Use IPV6:**Whether to use IPV6.

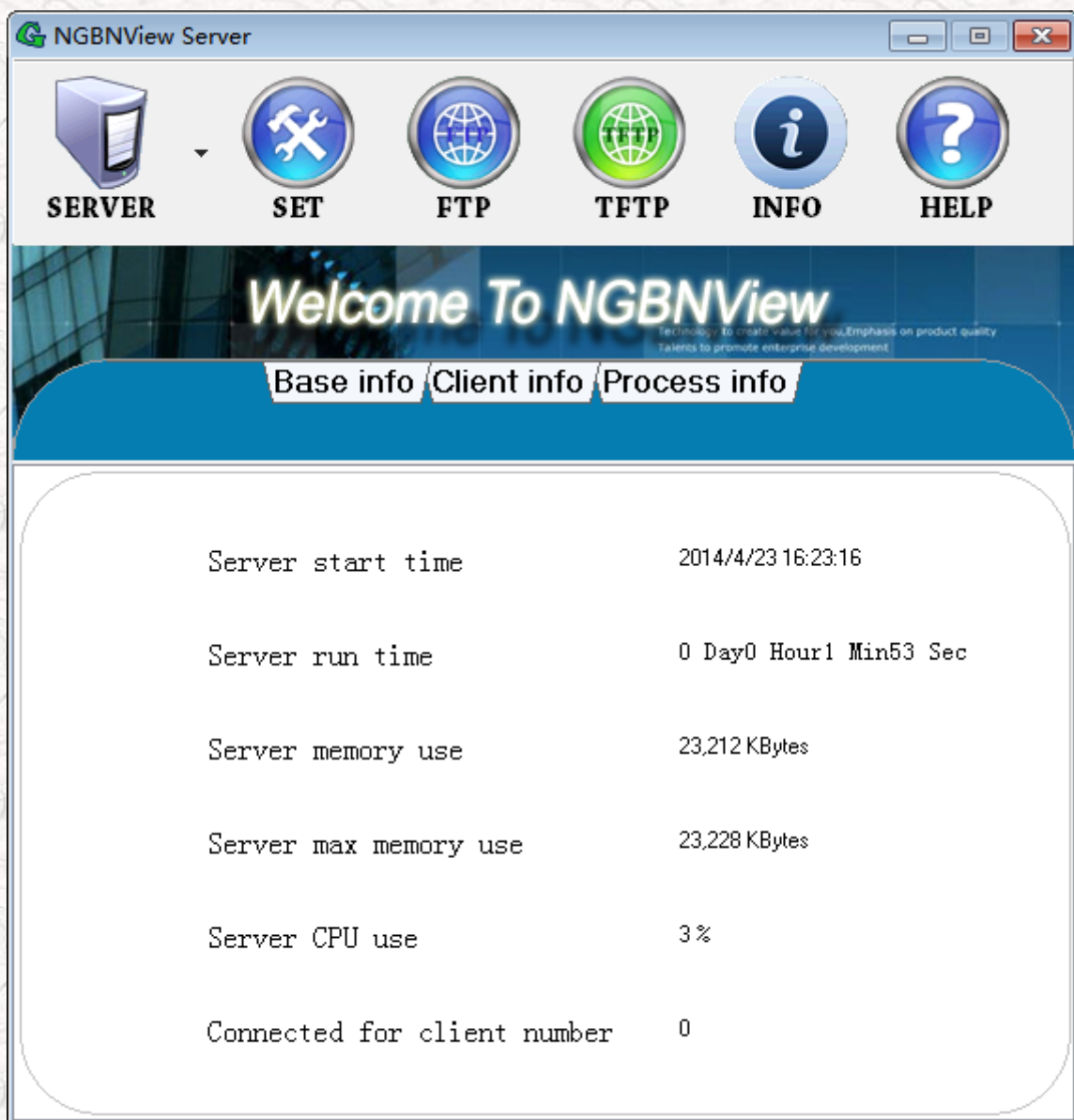
**TFTP Security:**The provision of the relevant authority TFTP.

**TFTP Configuration:** Some basic Settings of TFTP configuration, such as port, transmission number and so on.

**TFTP Advanced options:**TFTP transfer when there are additional requirements set accordingly..

## INFO

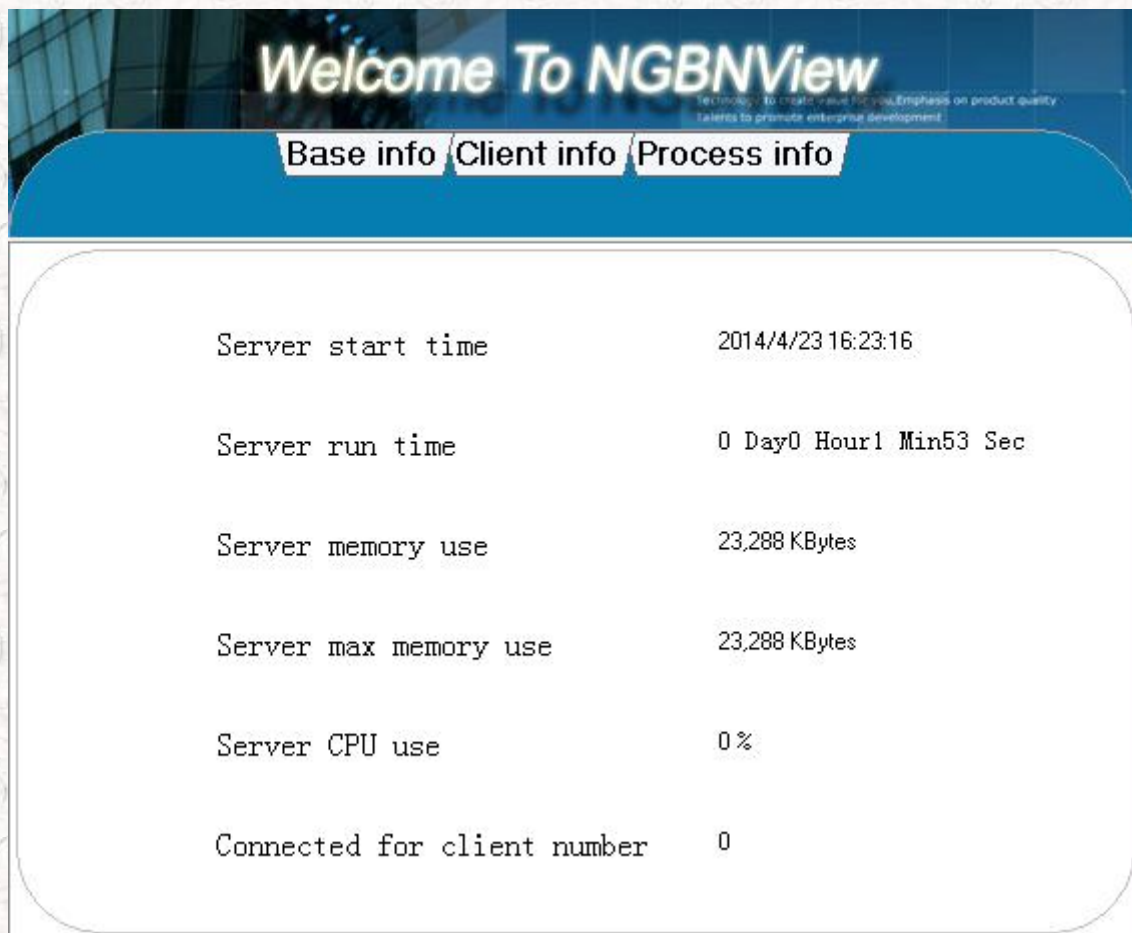
Click  , it will jump to the information display screen, as shown below.



picture1-32 Information Interface

Base Info: Click the basis of information items, will jump out of the

interface information. It will display the Server start time, Server run time, Server memory use, Server max memory use, Server CPU use, Connected for client number, as shown below.

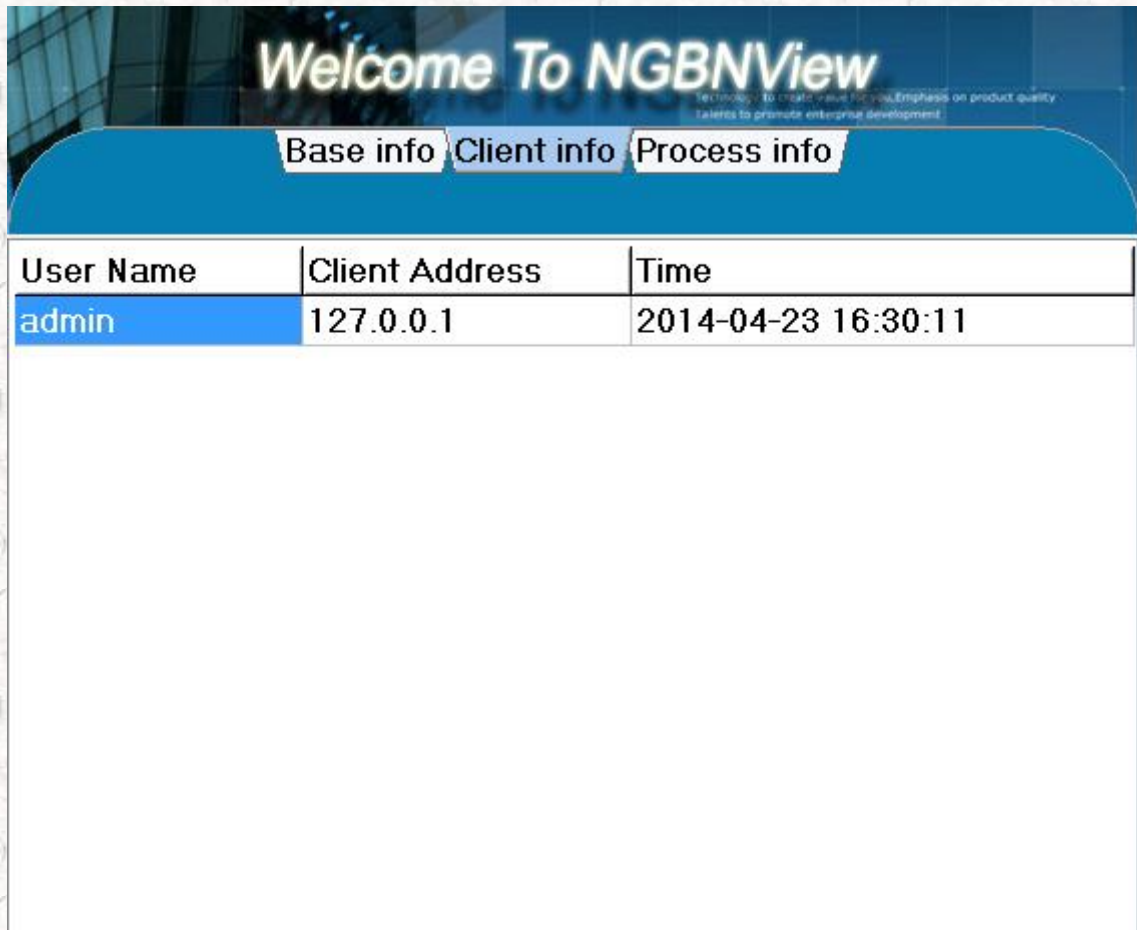


picture1-33 Base Information Interface

**Client Info:** Click on client information, then the information out of the client interface, in the case of the client starts, the display has



started the username, client address, connection time, as shown below.  
Otherwise, no data related to display information.



The screenshot shows the NGBNView application interface. At the top, there is a blue header with the text "Welcome To NGBNView" and a smaller tagline: "Technology to create value for you, Emphasis on product quality, talents to promote enterprise development." Below the header, there are three tabs: "Base info", "Client info", and "Process info". The "Client info" tab is currently selected. Below the tabs is a table with three columns: "User Name", "Client Address", and "Time". The table contains one row of data where "admin" is the user name, "127.0.0.1" is the client address, and "2014-04-23 16:30:11" is the time. The rest of the interface area below the table is empty.

| User Name | Client Address | Time                |
|-----------|----------------|---------------------|
| admin     | 127.0.0.1      | 2014-04-23 16:30:11 |

picture1-34 Client Address Interface


**Process info:** Click the Process module information, the display process information. After the system is installed by default have a PollEngine polling process, select the process, right-click menu as

shown below, if activated, it will appear to stop options, such as start-stop option appears.

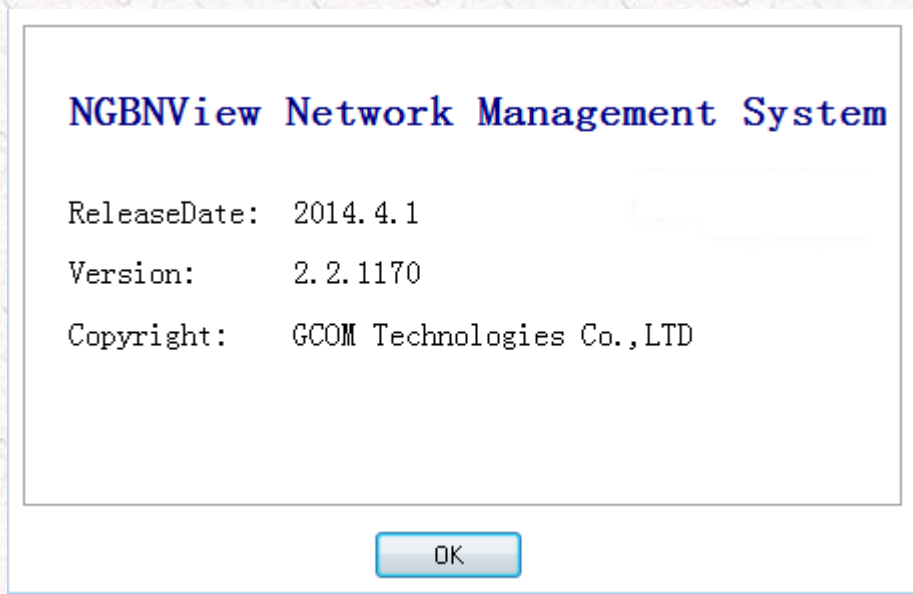
[illegible]

picture1-35 Process info Interface

## Help

Click  meaning, it will display the about and Context menu.

About: Click on, there's some of the profile information of the software. As shown below.

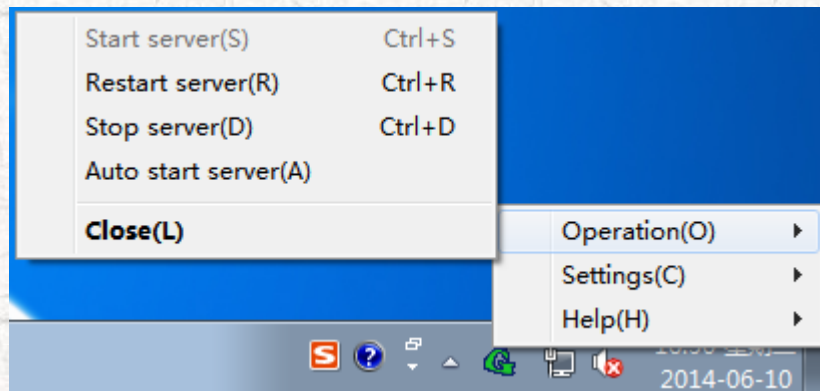


picture1-36 about information

Context: click the menu, the Help manual will appear;.

## System Icon

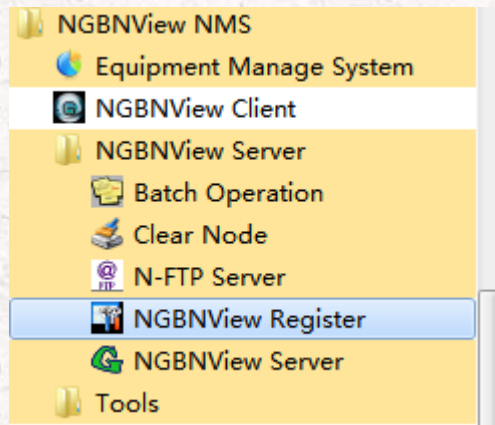
Implemented a similar system tray icon functionality and platform interface, server platforms running the program, the icon will be displayed in the column system, the basic menu functions and platform interface corresponds to its pop-up menu as shown in Figure.



picture1-37 System icon menu

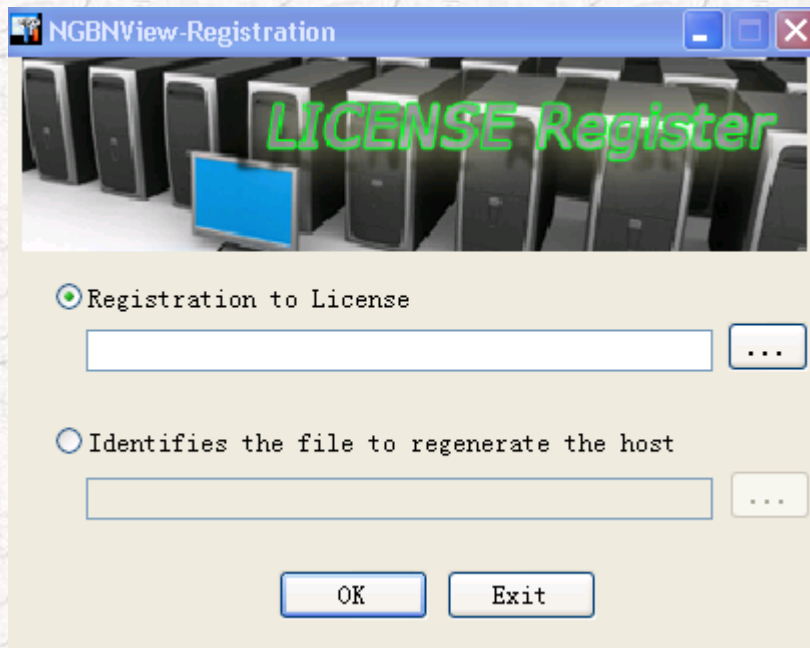
## NGBNVIEW Registration

After installation, the software shown register below.



picture1-38 NGBNVIEW Registration (1)

Click to go to the next screen, as shown below, click ... find license file, click OK, then the registration is successful.



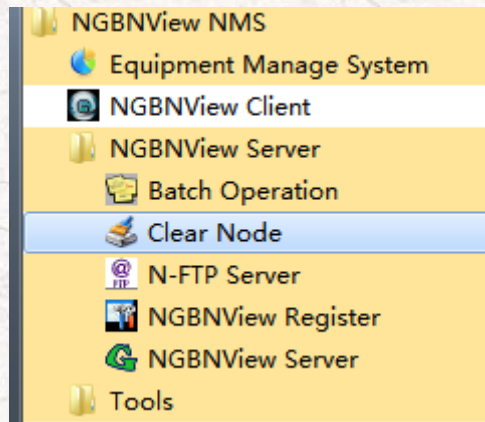
picture1-39 NGBNVIEW Registration (2)



If you choose to 'Registration to License', click ... to select the storage directory, and then determine the host HostID.dat file is generated. This file is generated license file specified computer. The software that is bound to the computer, other computers can not use the software.

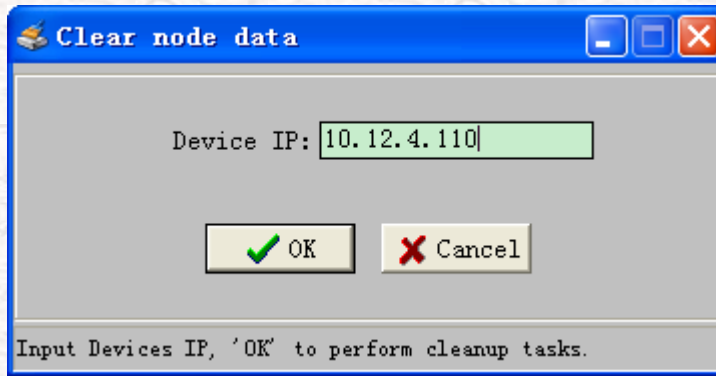
## Node Clear

Cleared by the client database operations are stored in the server node, as shown below.



picture1-40 Node Clear (1)

Click to go to the next screen, as shown below.

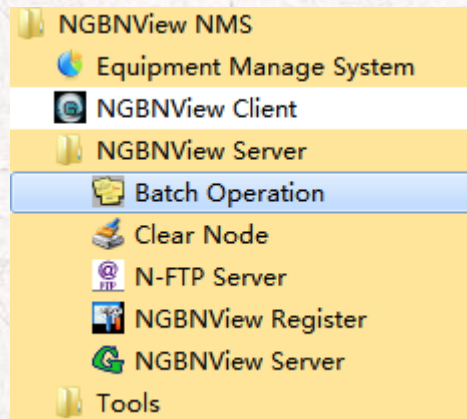


picture1-41 Clear Node data Interface (2)

Enter the client IP device that is integrated network management system, operational use, and click OK, then the data nodes in the IP device removed from the server. The next time you log in the client node is not clear in the panel display, you need to re-add.

## Batch Operation

The device in the server batch modify device identification. As shown below.



picture1-42 Batch Operation (1)

1. By the Export button to import equipment and system identification information into Excel or. Txt file.
2. Editing Excel or. Txt file information, note identification must not exceed 100 bytes, otherwise the program will automatically intercept the first 100 bytes.
3. It will be edited or Excel. Txt file into the database via the Import button.
4. After restarting NMS system will be able to see the device or the device has been updated logo.

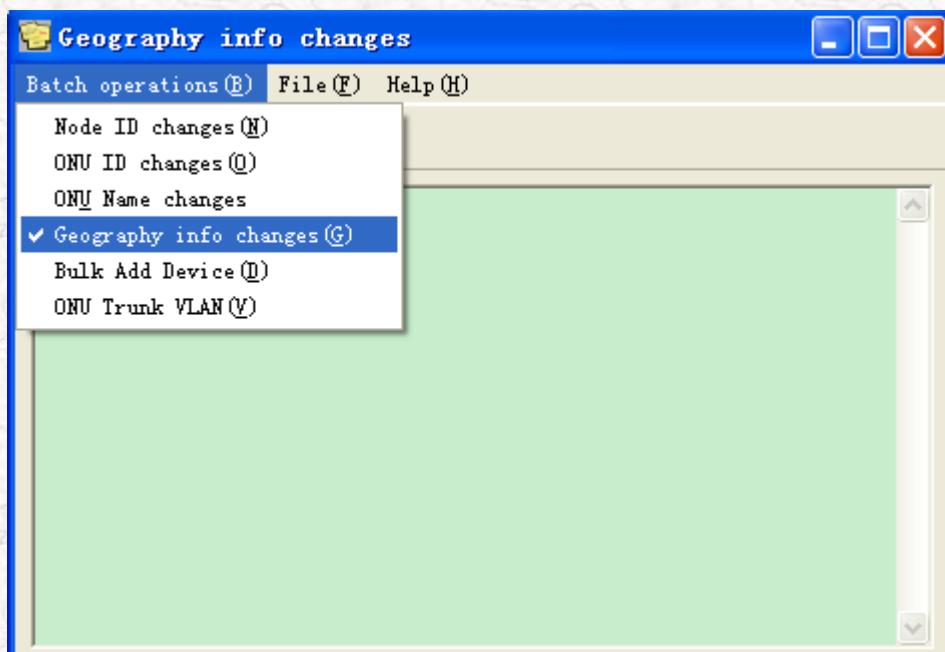
As shown below, a total of six batch operation, the batch file required for operation, management software can be derived from the appropriate file to import, or via 'File' → Export 'file' after the

appropriate format, and then fill necessary data, then you can import.



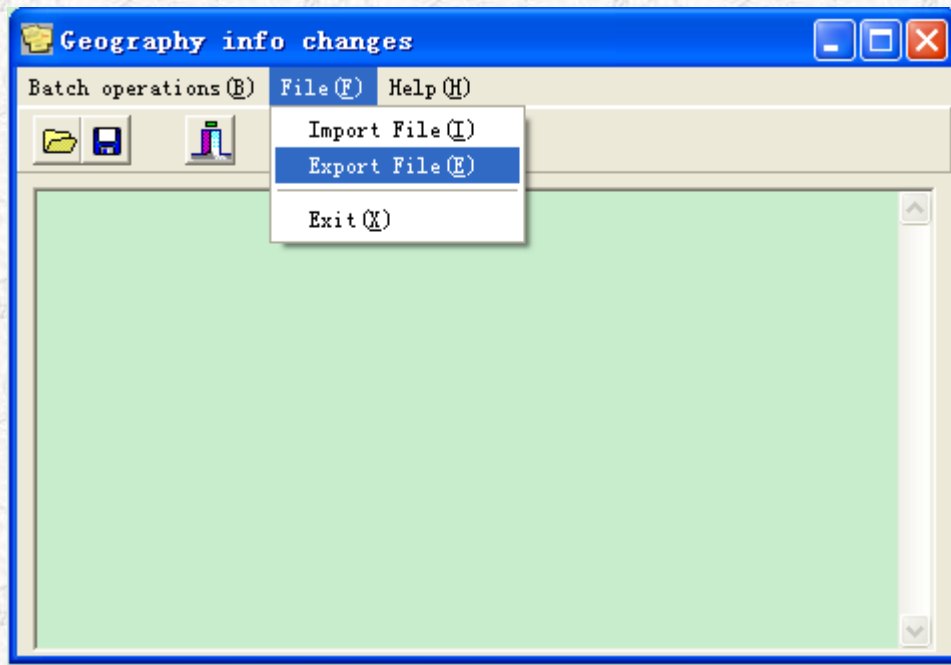
Note: The format of the file operation needs of different options are not identical, which identifies the node changes, geographic information changes, batch add device only supports xls format, ONU identification modify, ONU name modification, ONU Trunk VLAN support only txt.. format file.

The following detailed geographic information to modify operations on node.



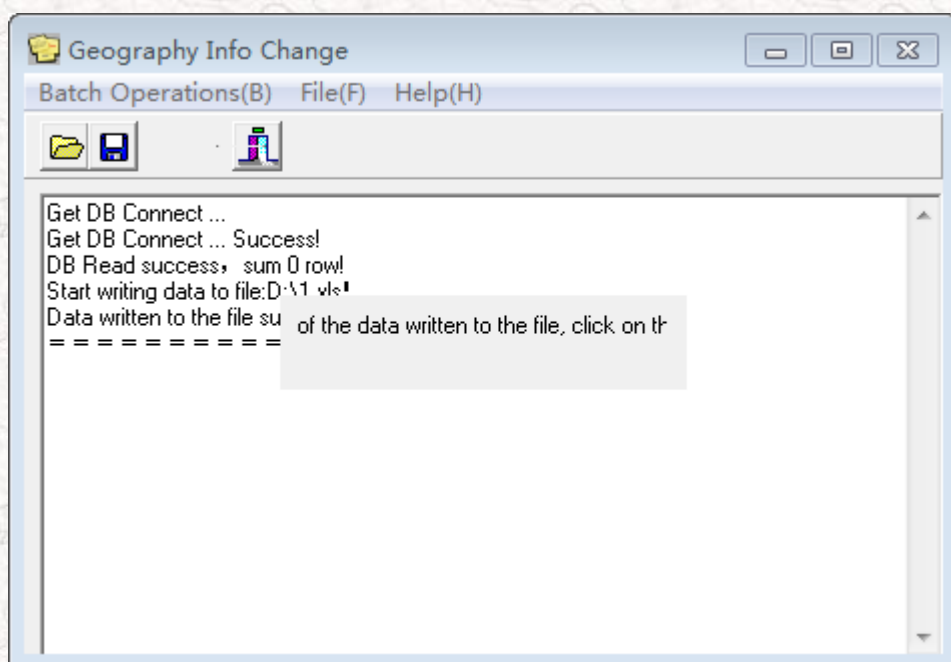
picture1-43 Batch Operation (2)

At this point the operation of bulk operations are geographic information changes. Click, to determine the export file path and name, to prepare for subsequent import.



picture1-44 Batch Operation (3)





picture1-45 Batch Operation (4)

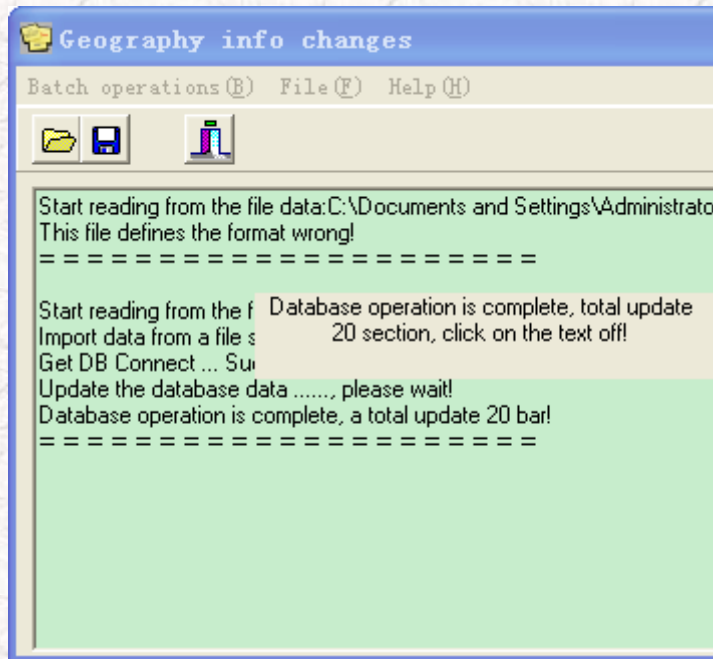
After the operation is complete, open the excel spreadsheet, fill in the appropriate data, as shown below.

|   | A           | B       | C         | D          | E       | F       |
|---|-------------|---------|-----------|------------|---------|---------|
| 1 | Device IP   | Level 1 | Level 2   | Level 3    | Level 4 | Level 5 |
| 2 | 10.12.4.110 | SZ      | SouthArea | QionYuLoad |         |         |
| 3 | 10.12.4.242 | SZ      | SouthArea | QionYuLoad |         |         |
| 4 | 10.12.4.251 | SZ      | SouthArea | QionYuLoad |         |         |
| 5 | 10.12.4.252 | SZ      | SouthArea | QionYuLoad |         |         |
| 6 | 10.12.4.248 | SZ      | SouthArea | QionYuLoad |         |         |
| 7 | 10.12.4.249 | SZ      | SouthArea | QionYuLoad |         |         |
| 8 | 10.12.4.27  | SZ      | SouthArea | QionYuLoad |         |         |
| 9 | 10.12.4.254 | SZ      | SouthArea | QionYuLoad |         |         |

picture1-46 Batch Operation (5)

**File→Import**, After importing the table, due to clear in front of the

node, the node has several cleared, the following message appears therefore.



picture1-47 Batch Operation (6)

After the success of the operation, you can see the effect on the client (network management system), '**Tool'→'Equipment Manage'**.As shown below.

The screenshot shows the 'Equipment Manager' application window. At the top is a blue title bar with the text 'Equipment Manager' and standard window controls. Below the title bar is a menu bar with 'System', 'Find And Stat', 'List Operation', and 'Help'. The main area contains a toolbar with icons for back, previous, first, last, next, and forward, along with a page number '1' and a 'Total: 8' label. Below the toolbar is a table with 8 columns: ID, Device Name, Device Type, Serial Number, Version, Start Time, Producer, Ports, and Area. The table contains 8 rows of data. At the bottom of the window, a status bar displays the message 'Data has been received completely!'.

| ID | Device Name | Device Type     | Serial Number | Version                                   | Start Time | Producer | Ports | Area                    |
|----|-------------|-----------------|---------------|---|------------|----------|-------|-------------------------|
| 2  | 10.12.4.242 | OLT 04P         |               | OPTD 3000B V100R001B01D001P001SP5         | 48Day1H30M |          | 24    | SZSouthAreaQionYuload   |
| 3  | 10.12.4.249 | OLT G09P        |               | GPON GL5600-08P V100R001B01D002P004       | 10Day3H43M |          | 26    | SZSouthAreaQionYuload42 |
| 4  | 10.12.4.250 | TiNetS2600-09PC |               | TiNet S2600-09PC V100R001B01D004P003SP5   | 8Day22H18M |          | 9     |                         |
| 5  | 10.12.4.251 | OLT 04          |               | EL5600-08P V100R001B01D001P001SP5         | 14Day0H3M  |          | 24    | SZSouthAreaQionYuload   |
| 6  | 10.12.4.252 | OLT G04P        |               | OptiWay GL5600-04P V100R001B01D001P001... | 3Day20H0M  |          | 22    | SZSouthAreaQionYuload12 |
| 7  | 10.12.4.27  | OLT 04          |               | EL5600-08P V100R001B01D001P001SP5         | 14Day0H3M  |          | 24    | SZSouthAreaQionYuload1  |
| 8  | 10.12.4.110 | OLT 04          |               | EPON S8600 V100R001B01D001P005            | 12Day1H58M |          | 96    | SZSouthAreaQionYuload   |
| 9  | 10.12.4.254 | OLT 04          |               | OptiWay GL8600 V100R001B01D001P001SP2     | 1Day18H55M |          | 96    | SZSouthAreaQionYuload36 |

Data has been received completely!

Data has been received completely!

picture1-48 Batch Operation result

