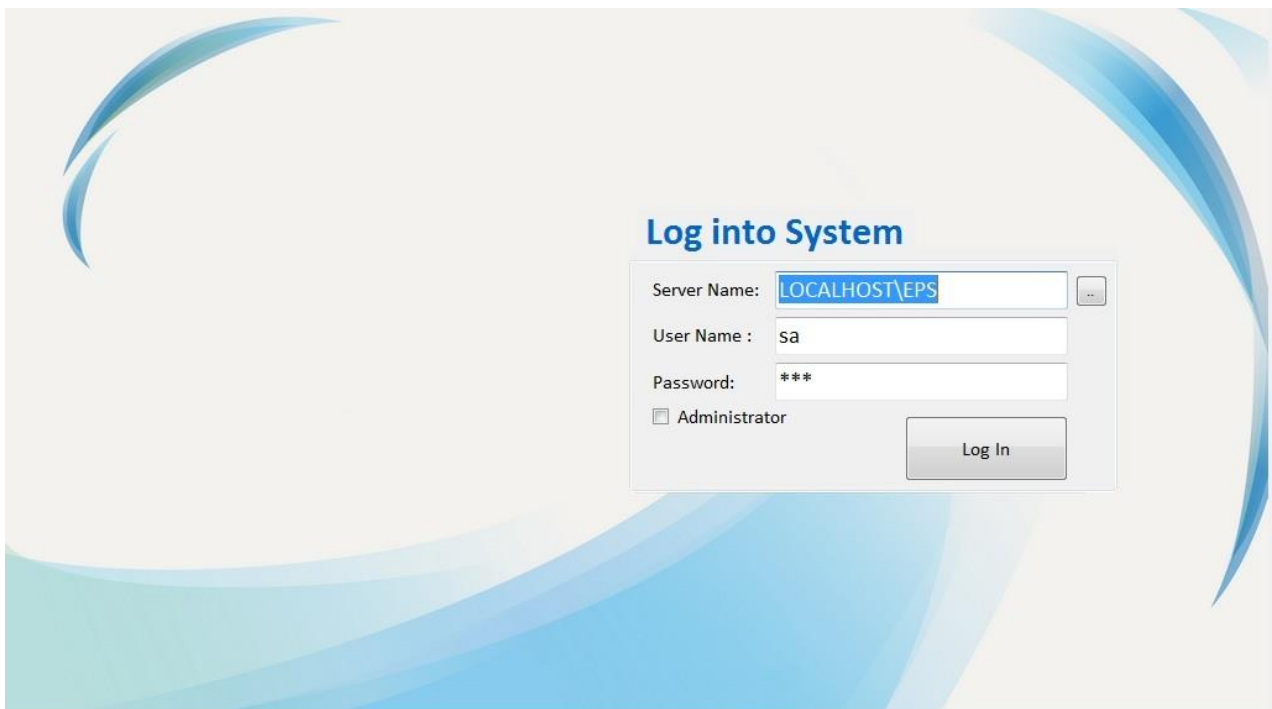


# Network Management System



## Software Operating Manual

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# 1 Software Introduction

## 1.1 System Requirements

### 1.1.1 Supported Operating Systems

Windows 10, Windows 7, Windows 8, Windows Server 2008 R2 SP1, Windows Server 2012, Windows Vista Service Pack 2

### 1.1.2 Processor:

Computer equipped with Intel processor or processor compatible to 1GHz (or higher) (2GHz or faster is recommended). Intel compatible processor (processing speed of at least 1GHz) or faster processor.

### 1.1.3 RAM:

SQL Server Express with Tools and SQL Server Express with Advanced Services of at least 512 MB. The Reporting Services installed together with SQL Server Express with Advanced Services is 4 GB.

### 1.1.4 Hard Disk Space:

Available hard disk space of 4.2 GB.

### 1.1.5 Network connection equipment

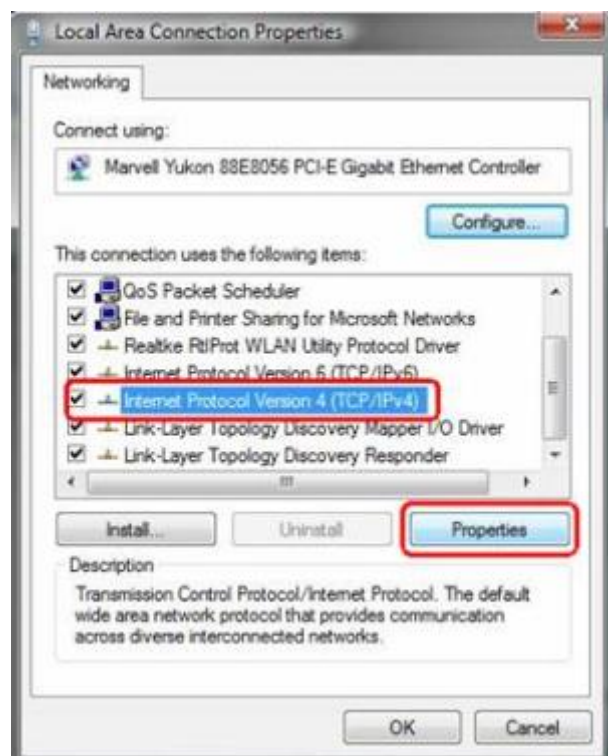
**Limitation: Microsoft SQL Server Express supports 1 physical processor, 1GB memory and 10 GB storage space**

## 1.2 Network setting:

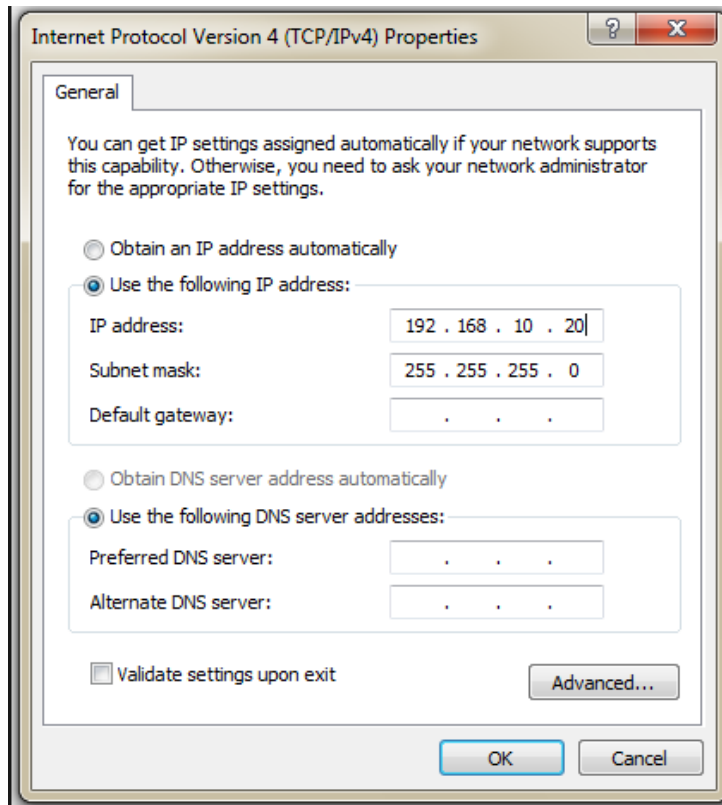
Before officially logging in the Data Wave Network Management Software, we need to ensure that the connection equipment or management host machines used are able to connect to the company's intranet network. Please perform the following setting.

### 1.2.1 Setting Method

- In the Control Panel > Networking and Internet > Network Connection, open the Local Area Network.
- Find the "Network Connection Protocol Version 4 (TCP/IPv4)"
- Select "Property (R)" to enter the setting.



- Content Setting:  
The default setting of this system is distinguished from the network segment used by general users in order to prevent conflicts among IPs. It can also increase the network security of this system.



Select “Use the following IP address (S):”

- IP address (I): 192.168.1.XXX (XXX can be any one number between 0 ~ 255, such as the number of 99 or 88 etc.)
- Sub-net Mask (U): 255.255.255.0
- Default Gateway (D): 192.168.1.1
- Click on “OK” to exit the network setting

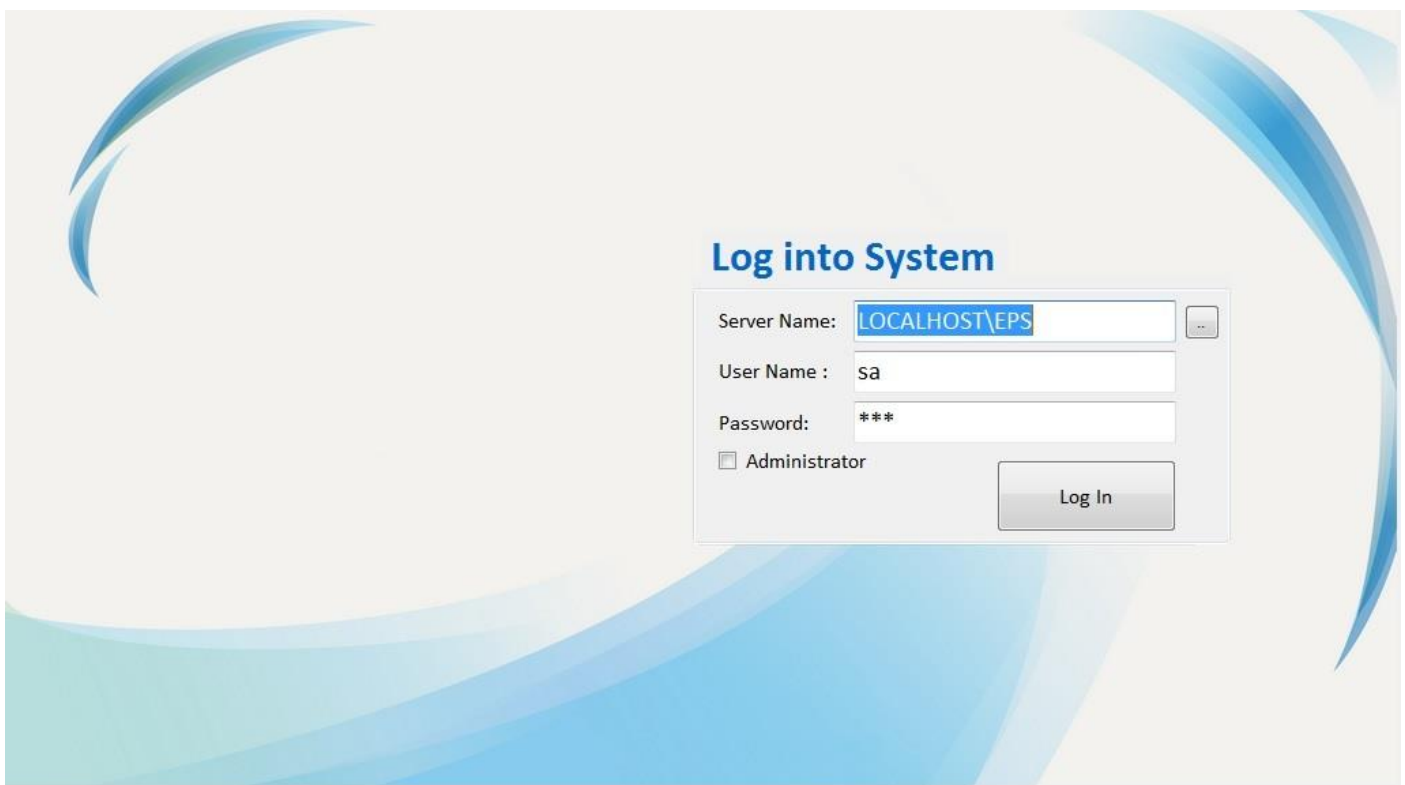
# 2 Open Software

## 2.1 Login Screen

Before opening the Data Wave Network management software, it is required to complete the installation of the Data Wave Network management software and SQL Server first.

### 2.1.1 Open Software

- Enter the Login screen.



### 2.1.2 Account and Password:

Sequentially input the following information:

- Server: LOCALHOST\ECS
- Username: sa
- Password: esp
- Administrator Password: 12345

**Hint:**

**A.** To set up the administrator account and password, please refer to [Appendix F](#) of the Software Installation Manual:

Setting of Server Account and Password.

B. Please do not select Clear Database.

## 3 Software Interface

### 3.1 Interface Instructions

After opening the software, the default is a blank screen, and it needs to select a scanner to perform various settings.



The main functions shown on the Toolbar on the top are described in the following:

- Main Page: Tree structure setting (main page):  
Add and delete equipment, set the distribution frame connection status.
- Worksheet:  
Manage the connection status of each port of the distribution frame, including the setting of add new, delete, modify, pairing, etc.
- Save:  
Save the data set into the server database. It is recommended that after the completion of one action, save the data into the database immediately.
- Event Log:  
Display error message list.
- User Setting:  
Set up the authorization and notification model for user.
- Map Function:  
Graphically display all of the terminal locations connected.
- Language:  
Toggle between Chinese and English
- Event Warning:  
Display the warning sign of erroneous events.
- About:  
Company information



# 4 Equipment Management

For nearly all of the equipment, the main page can be used to perform the management, addition, deletion, connection status and parameter setting of such equipment.

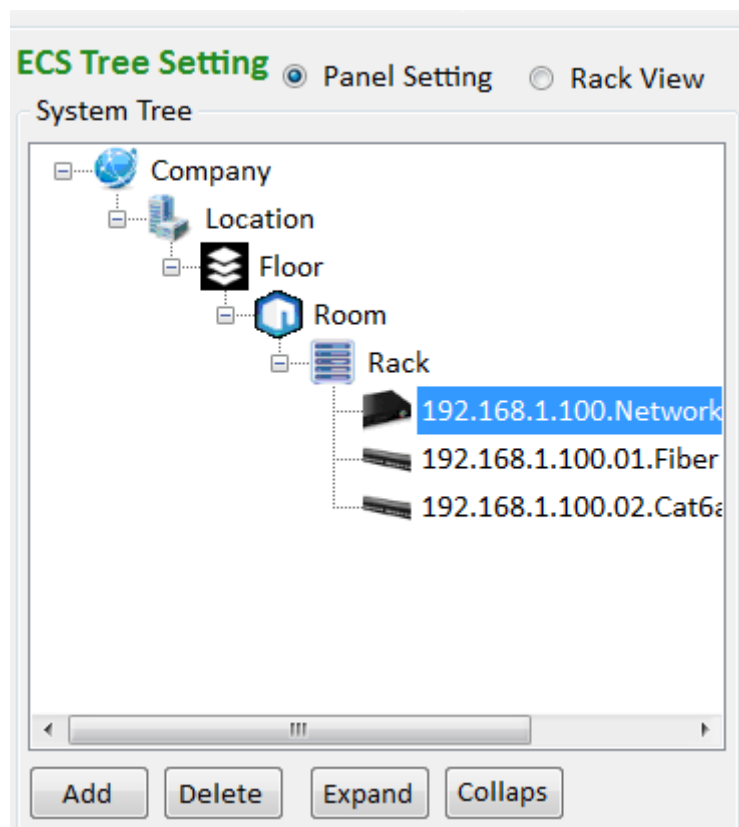
Before adding equipment to the software, please ensure that the physical connections of all of the equipment have been completed first.

**Hint:** For the physical connections of various equipment, please refer to the “Data Ware Hardware Installation Instructions”.

## 4.1 Add New Equipment

### 4.1.1 Tree Structure Setting – Scanner

- Click on “Add”



- Select Add Scanner Equipment

- **Connect Scanner**  
Input the IP address of the scanner. The factory default value of all scanners is 192.168.1.100, and the software can be used to perform the setting.
- **When the connection is successful, a green light is shown**

## 4.1.2 Setting of Scanner Parameters

- **Click on "Advanced"**

- Input parameter values
- Complete the equipment setting
- Click on “Update.” After the event test, if the setting is correct, this window is closed automatically. The window below also displays information.

EPS Advanced Setting

Modifying Network Settings

IP Address: 192.168.50.168 192.168.50.168

Subnet Mask: 255.255.255.0 255.255.255.0

Gateway: 192.168.50.1 192.168.50.1

MAC: 12-FF-56-78-9A-BC

Type: --

HW Version: v1.01 FW Version: v1.10

Event Network Settings

Event Trap IP : 192.168.1.111 192.168.1.111

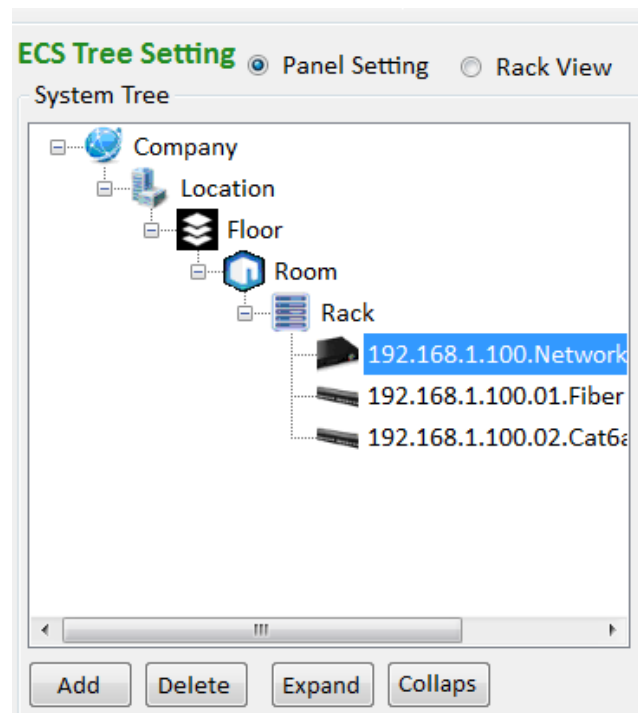
Reminder Interval : Day Hour Minute

00 00 05

Get Update Trap Test Cancel

### 4.1.3 Add Other Equipment

- Click on Add on the Tree Map



- Use the dropdown menu from the front-end equipment type to select the product to be added

**ECS Device Edit**

(1) ECS Information ☐ Add Scanner Device

ID: OPID20181226111810 Front End Device Type: 110 Rack Mount Wiring Blocks Patch Panel (100 Pair)

Name: New

(2) Rack Rack Name: Rack

(3) Room Room Name: Room

(4) Floor Floor Name: Floor

(5) Location Location Name: Location

(6) Company Company Name: Company

Device position in Rack: 1

Panel Size: 1

OK Cancel

- Change the ID and Name as well as other settings according to the needs
- Click on OK to add non-scanner equipment

## 4.2 Setting of Equipment Location

- Sequentially input various information on the equipment setting screen, including the pre-defined location of the equipment in the cabinet. On the same screen, the distribution frame quantity to be added can be loaded all at once at the same time.

**ECS Device Edit**

(1) ECS Information ☐ Add Scanner Device

ID: OPID20181226111810 Front End Device Type: 110 Rack Mount Wiring Blocks Patch Panel (100 Pair)

Name: New

(2) Rack Rack Name: Rack

(3) Room Room Name: Room

(4) Floor Floor Name: Floor

(5) Location Location Name: Location

(6) Company Company Name: Company

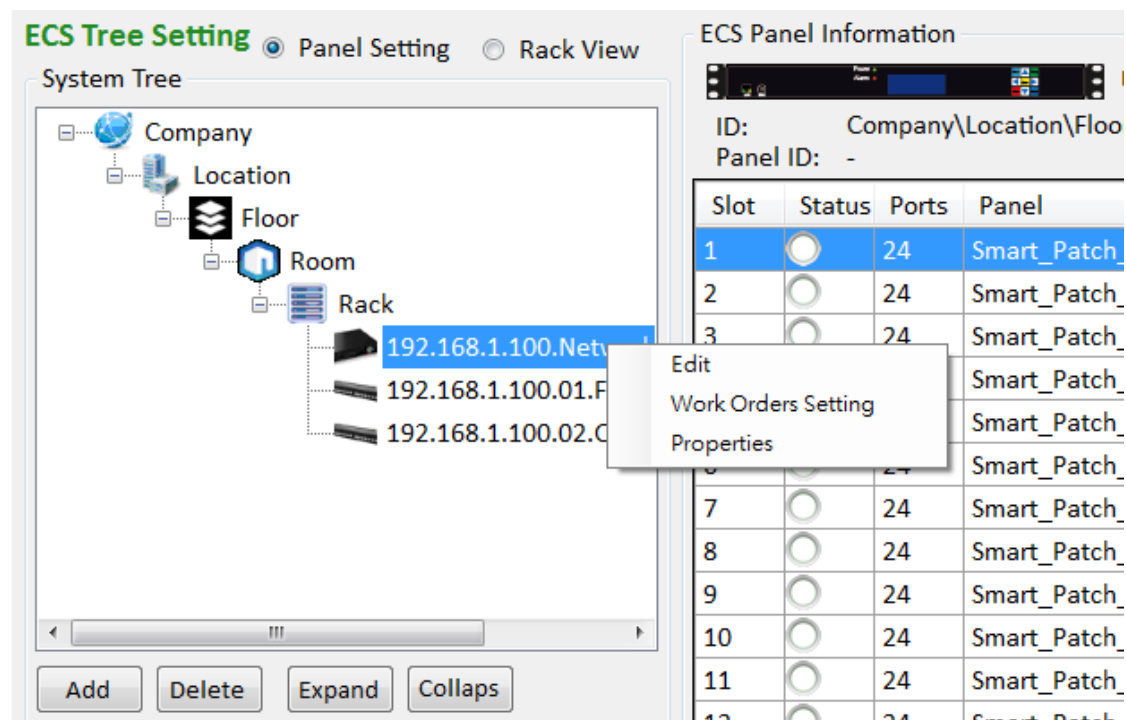
Device position in Rack: 1

Panel Size: 1

OK Cancel

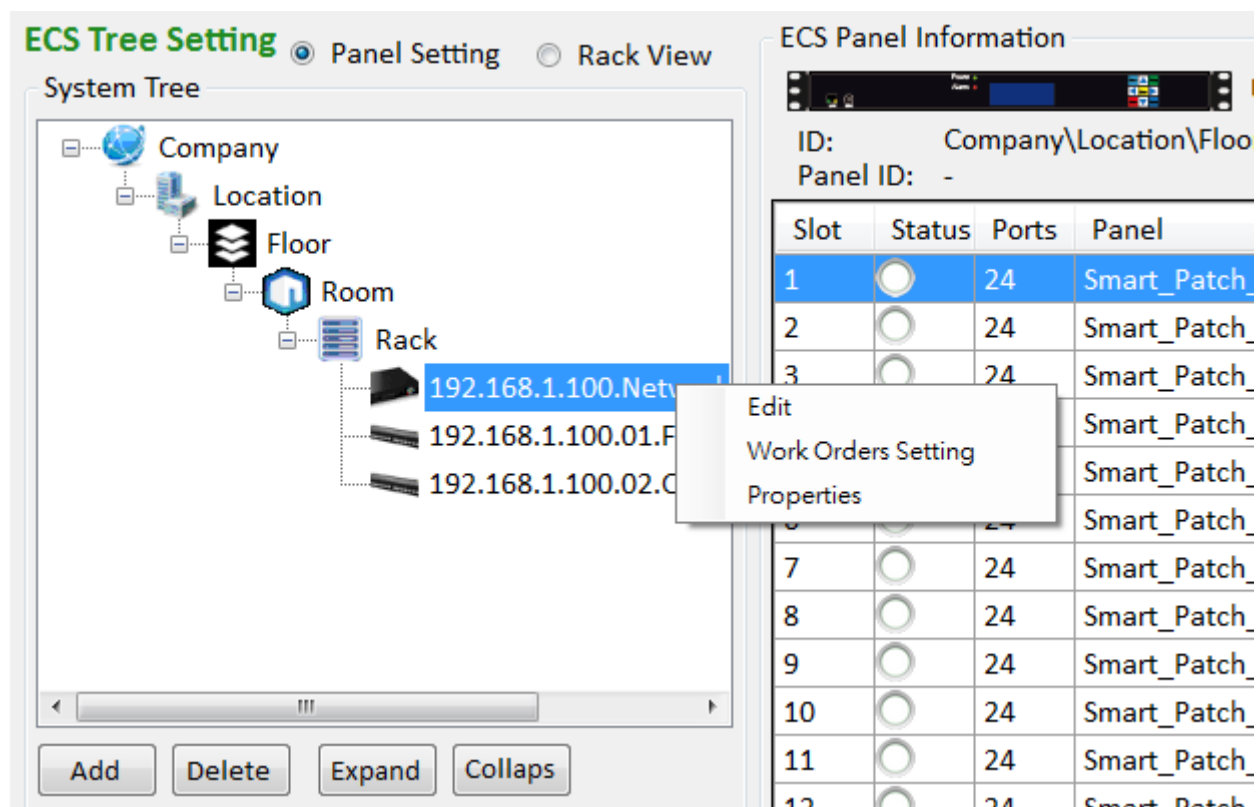
## 4.3 Modify Equipment Information

- On the structure tree screen, select the equipment to be modified.
- Right click on the mouse, and select "Edit."
- Repeat relevant steps of 4.1~4.2 to edit the information.

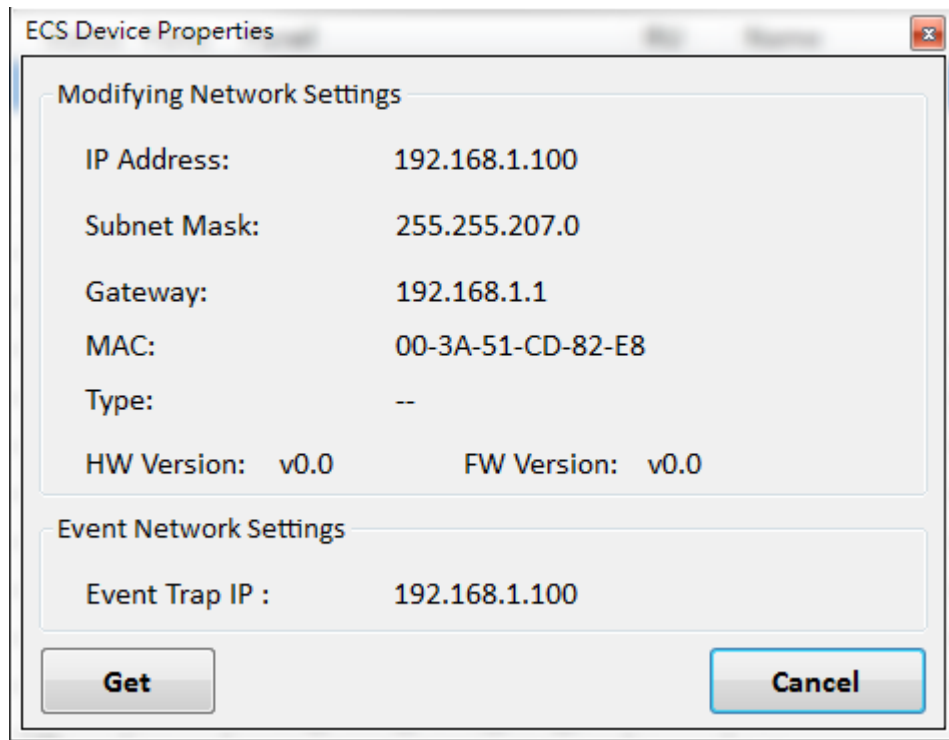


## 4.4 View Equipment Information.

- On the screen tree screen, select the equipment to be viewed.
- Right click on the mouse and select "Property."

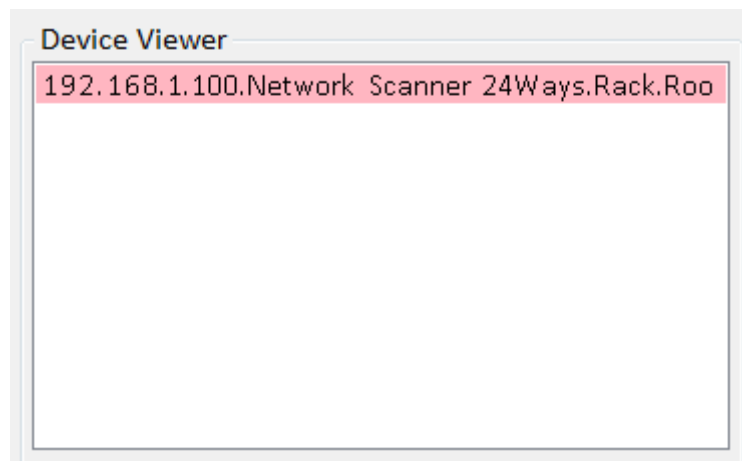


- View the setting values of the equipment.



## 4.5 Current Equipment Overview

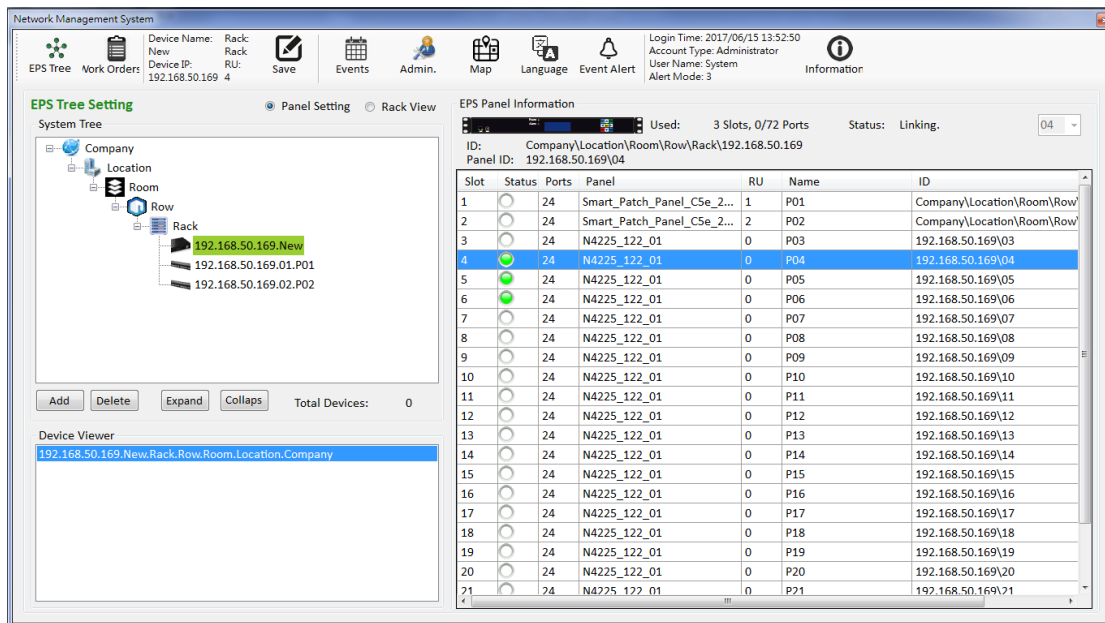
Display the status of the current equipment, including IP address and physical address connection status.



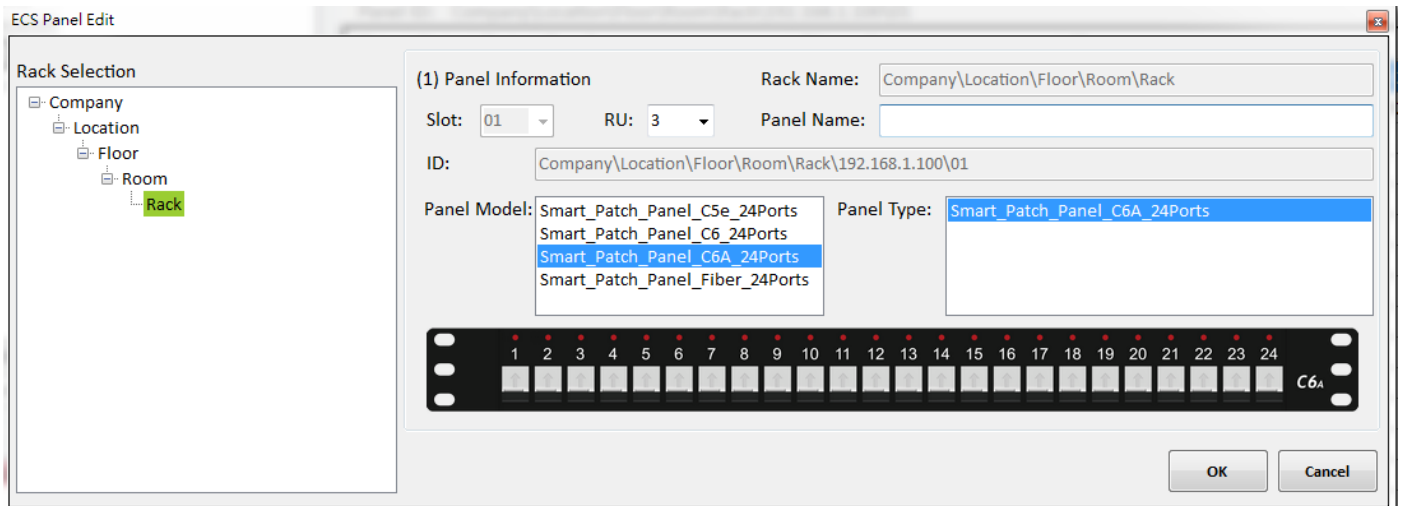
## 4.6 Change Distribution Frame Type

For CTK network management system, it is recommended to use the smart distribution frames from CTK for greater system compatibility.

- Select the distribution frame for setting from the distribution frame information table.
- Left click on the mouse twice to open the “Distribution Frame Setting Window.”

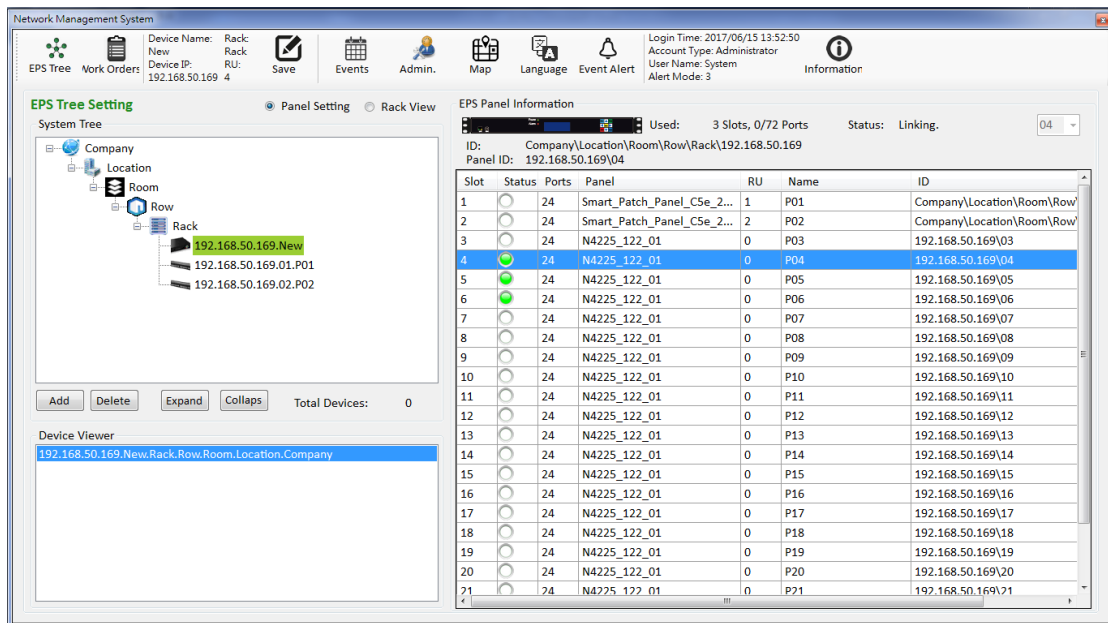


- The distribution setting window displays relevant information about this distribution frame and graphically shows the distribution frame
- Select according to the cabinet to be set and the information of the distribution frame.



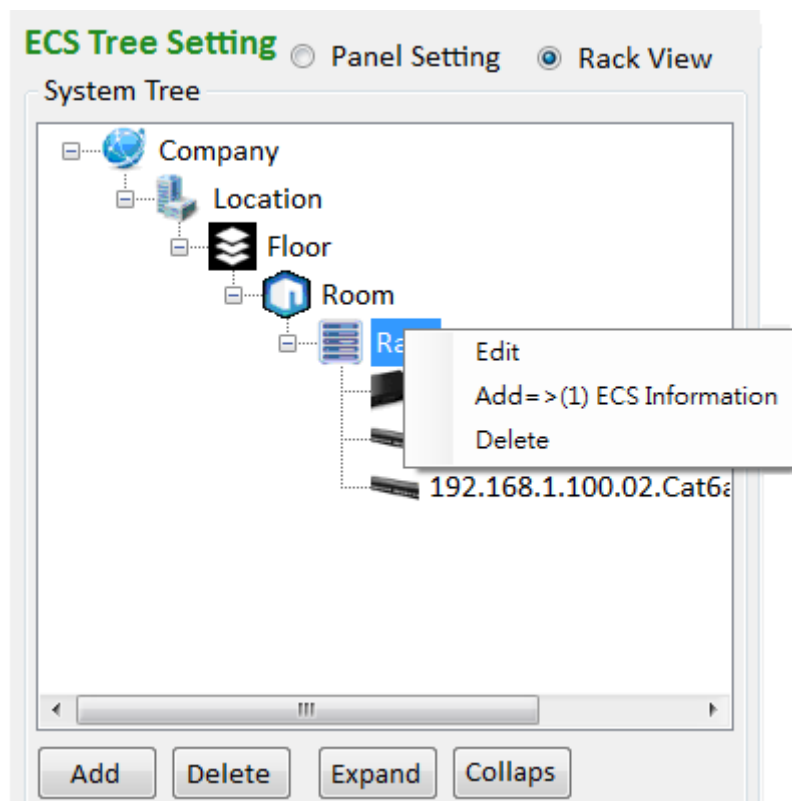
## 4.7 Distribution Frame Status Display

When the distribution frame status light indicates green, it means that the connection is successful. Red light means an error occurs. White light means no connection is made.



## 4.8 Cabinet Configuration

On the tree map, select the cabinet to be edited and right click on the mouse to perform the editing.



After clicking on “Edit”, Edit Window opens. The size and arrangement sequence can be adjusted according to the actual needs.



**Rack Setting**

Rack Path: Company\Location\Floor\Room\Rack

Rack Name: Rack

Rack Unit (Max.): 12

Sort Mode :

☒ Sort Max. to 1

☐ Sort 1 to Max.

Max. 1

OK Cancel

## 4.9 Display cabinet configuration

Click on “Rack View” to display the actual configuration screen of the Rack

Network Management System

Device Name: New Rack: 4  
Device ID: 192.168.50.169  
RU: 4

Save Events Admin. Map Language Event Alert

Login Time: 2017/06/15 13:52:50  
Account Type: Administrator  
User Name: System  
Alert Mode: 3

Information

EPS Tree Setting

System Tree

- Company
  - Location
    - Room
      - Row
        - Rack
          - 192.168.50.169.New
          - 192.168.50.169.01.P01
          - 192.168.50.169.02.P02

Add Delete Expand Collaps Total Devices: 0

Device Viewer

192.168.50.169.New.Rack.Row.Room.Location.Company

EPS Panel Information

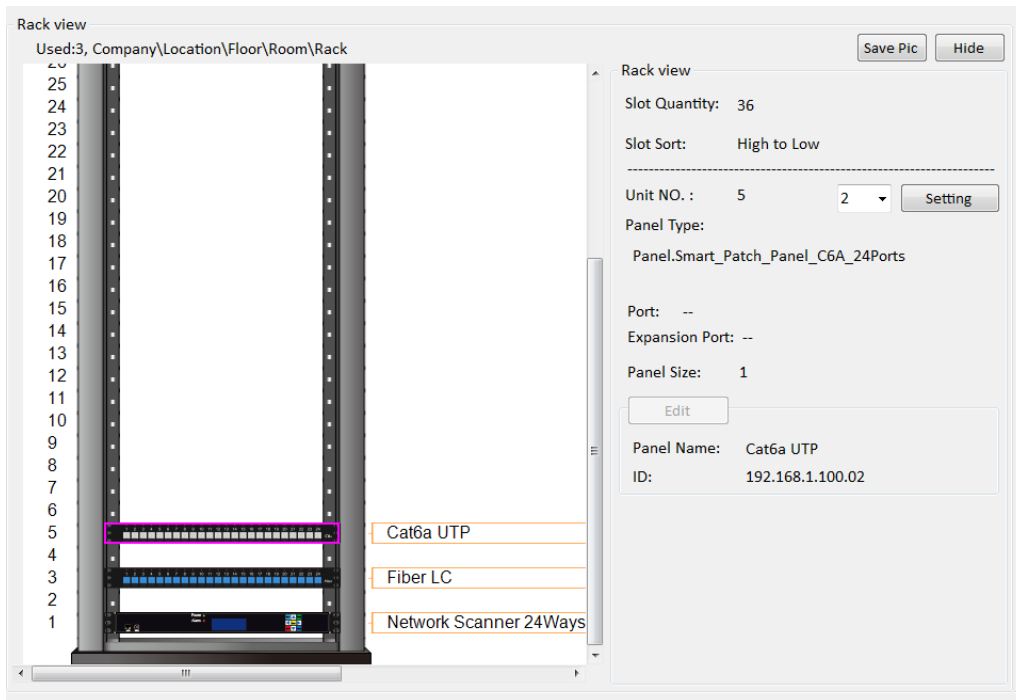
Used: 3 Slots, 0/72 Ports Status: Linking. 04

ID: Company\Location\Room\Row\Rack\192.168.50.169  
Panel ID: 192.168.50.169\04

Slot	Status	Ports	Panel	RU	Name	ID
1		24	Smart_Patch_Panel_C5e_2...	1	P01	Company\Location\Room\Row\
2		24	Smart_Patch_Panel_C5e_2...	2	P02	Company\Location\Room\Row\
3		24	N4225_122_01	0	P03	192.168.50.169\03
4		24	N4225_122_01	0	P04	192.168.50.169\04
5		24	N4225_122_01	0	P05	192.168.50.169\05
6		24	N4225_122_01	0	P06	192.168.50.169\06
7		24	N4225_122_01	0	P07	192.168.50.169\07
8		24	N4225_122_01	0	P08	192.168.50.169\08
9		24	N4225_122_01	0	P09	192.168.50.169\09
10		24	N4225_122_01	0	P10	192.168.50.169\10
11		24	N4225_122_01	0	P11	192.168.50.169\11
12		24	N4225_122_01	0	P12	192.168.50.169\12
13		24	N4225_122_01	0	P13	192.168.50.169\13
14		24	N4225_122_01	0	P14	192.168.50.169\14
15		24	N4225_122_01	0	P15	192.168.50.169\15
16		24	N4225_122_01	0	P16	192.168.50.169\16
17		24	N4225_122_01	0	P17	192.168.50.169\17
18		24	N4225_122_01	0	P18	192.168.50.169\18
19		24	N4225_122_01	0	P19	192.168.50.169\19
20		24	N4225_122_01	0	P20	192.168.50.169\20
21		24	N4225_122_01	0	P21	192.168.50.169\21

## 4.10 Change Rack Configuration Location

First, select the product for the change of location, then use the dropdown menu of Slot Location to select the desired location. Then, click on “Setting” and the product is able to change to the desired location directly.

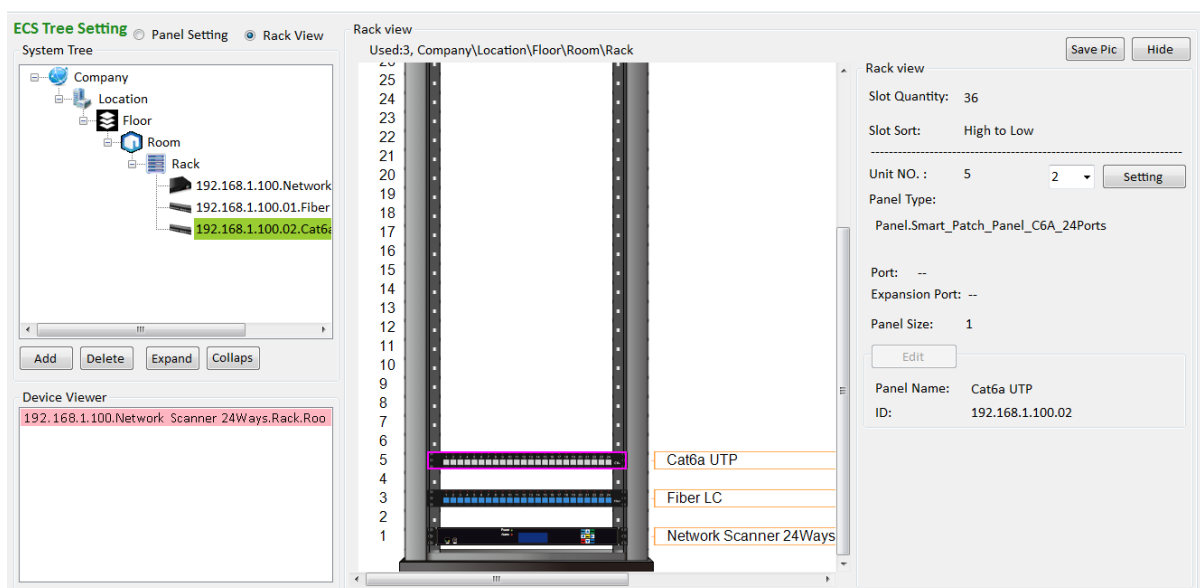


## 4.11 Output Current Cabinet Illustration

Click on Save, and the current cabinet Illustration is outputted into a JPG file.

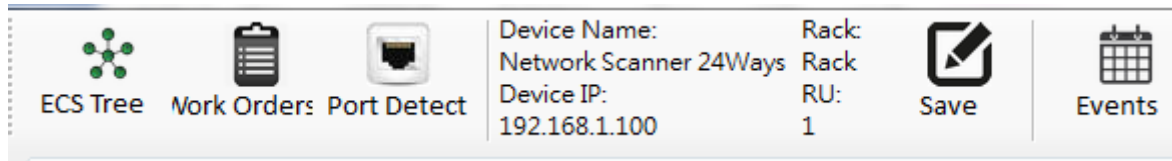
## 4.12 Edit Product Name and ID from Rack View

On the Rack View, select the product (purple bracket refers to the product selected) for product editing, and click on Edit. (Currently, only the distribution frame and products other than the scanner are supported for the editing. )

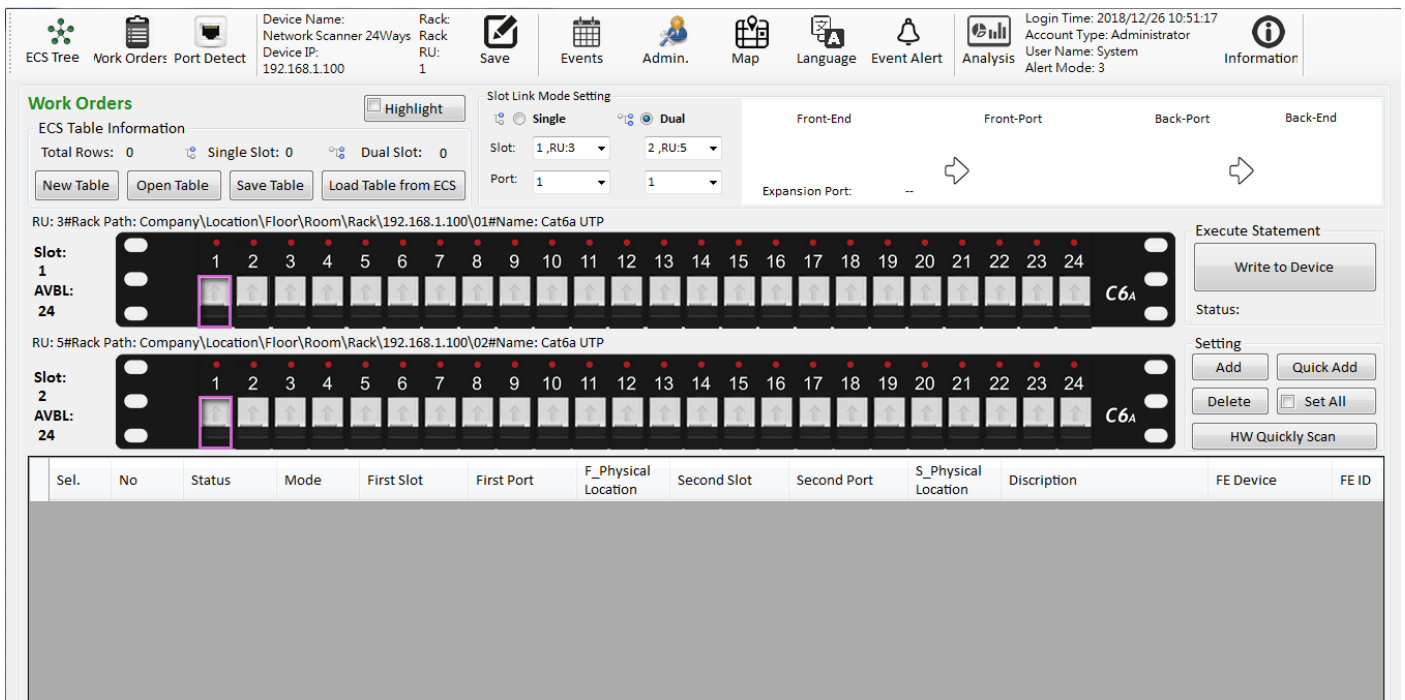


**Hint:** Before completing any setting or change of page, please be sure to click the “Save” button in order to save the setting values into the database and to prevent loss of data.

# 5 Worksheet

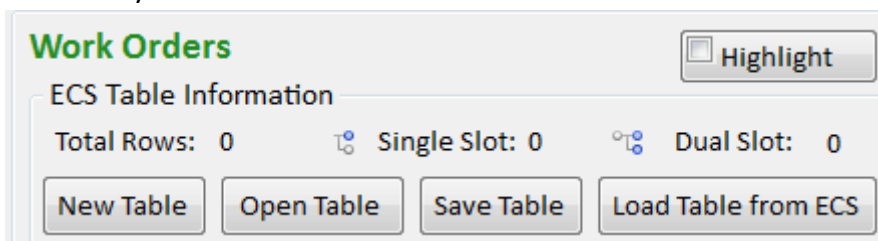


Set up the connection status of all ports of all distribution frames in the system. In the system tree structure, select a scanner for various work program management settings.



## 5.1 Management System Execution Status

The management system execution status is able to display the current connection status of the distribution frame already in use.

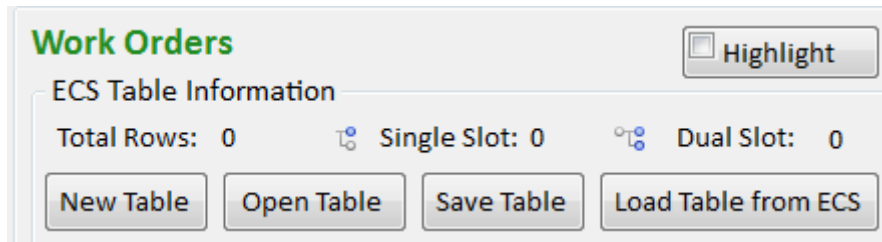


- Total Rows: Quantity already operated
- Single Slot: Execution quantity of single terminal connection status
- Dual Slot: Execution quantity of dual terminal connection status

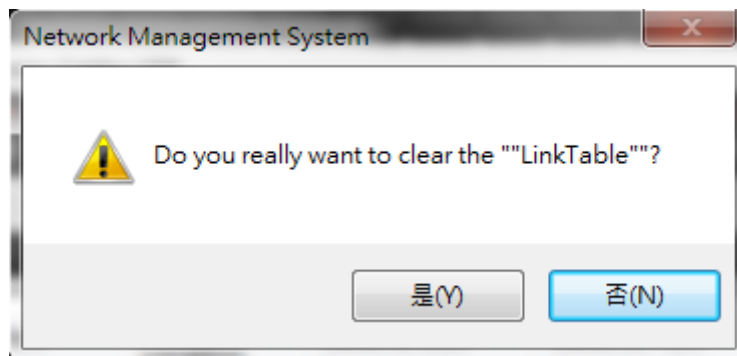
## 5.1.2 Add New Worksheet

Start create a new worksheet.

- Click on “Add New Sheet.”



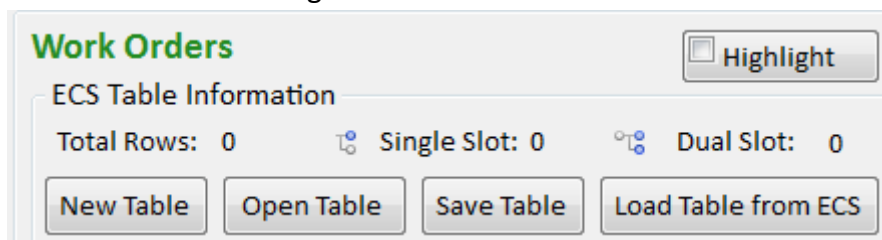
- System notification: Do you want to clear the worksheet?
- Click on “Yes (Y)” to clear all worksheets.



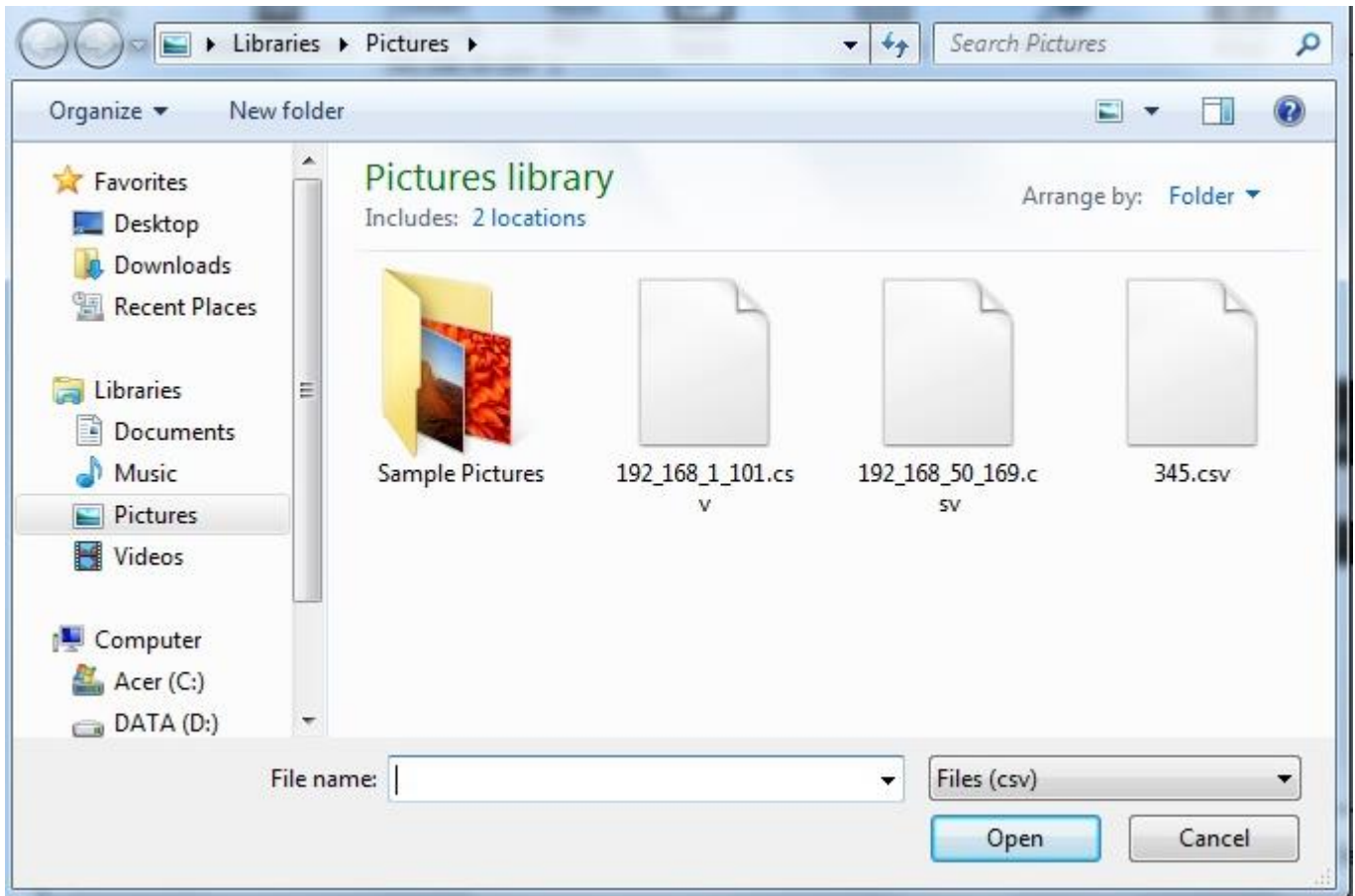
## 5.1.3 Batch Loading/Open Existing Worksheet

Use existing worksheet already saved to perform Add, Modify or Delete worksheet. A worksheet of scanner already set up and completed can also be opened in order to perform modification.

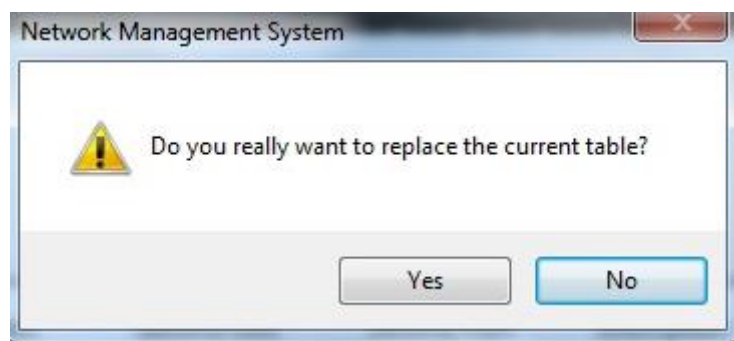
- Click on “Batch Loading.”



- Open search window to load existing worksheet (CSV file).



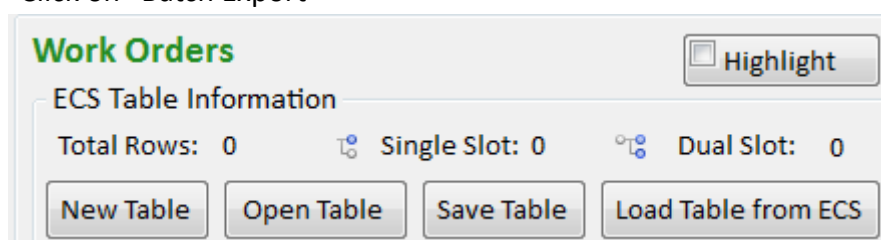
- System notification: Do you want to overwrite existing worksheet with the current worksheet?



- Click on "Yes (Y)", to import existing worksheets.

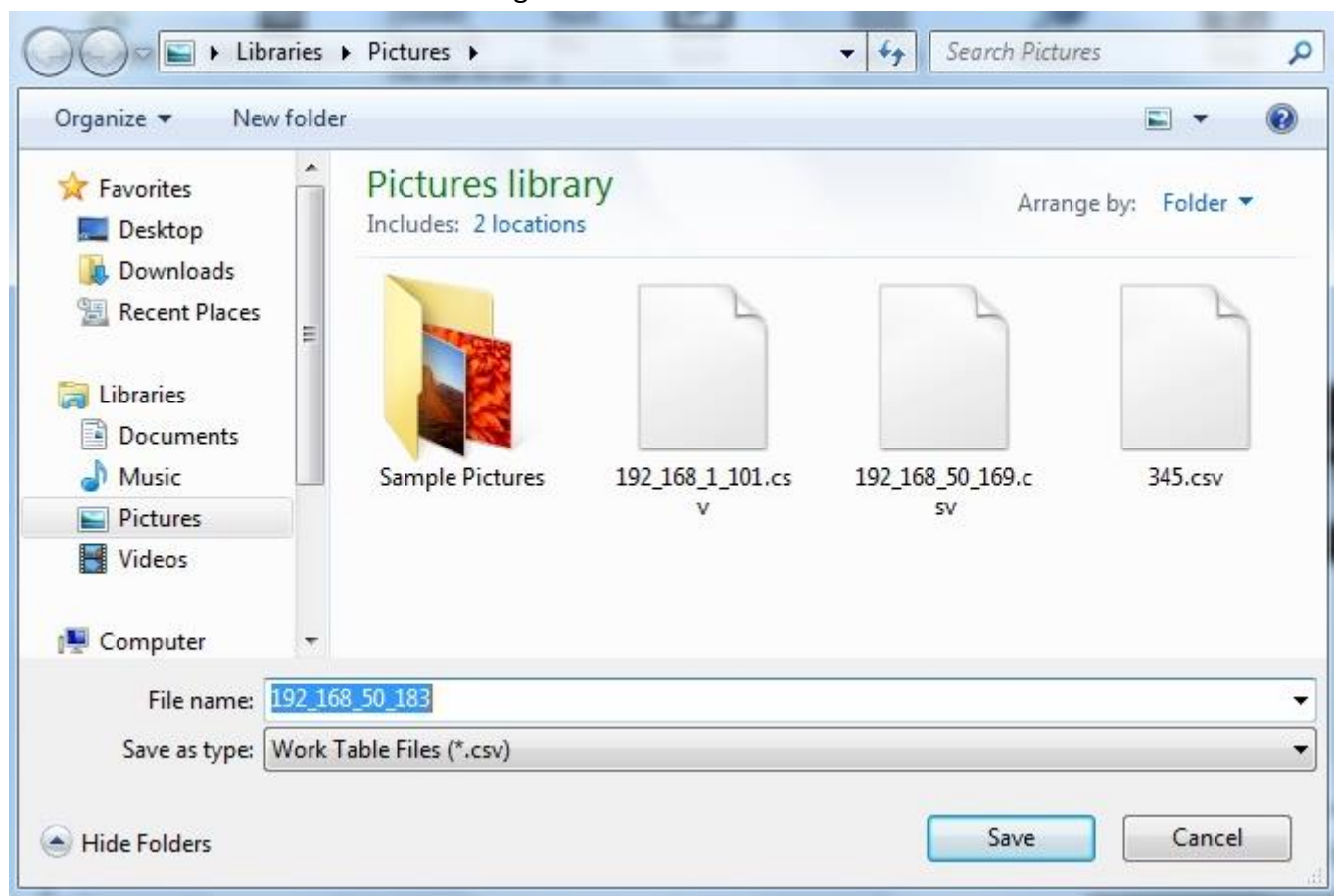
### 5.1.4 Batch Export/Save Worksheet

- Click on "Batch Export"

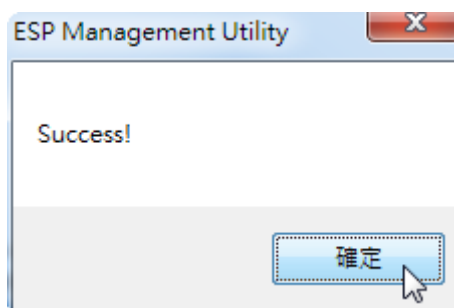


- Open window to select the file folder for saving the worksheet.

- The worksheet saving name can be set.



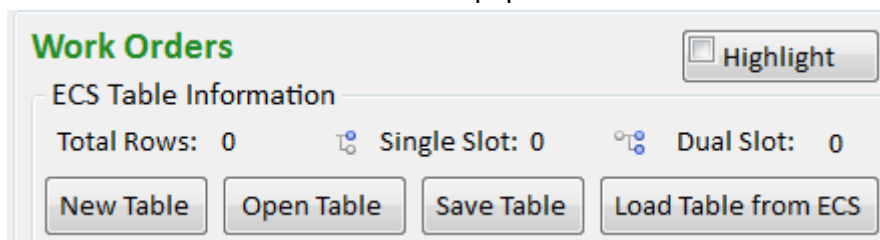
- System notification: Save successful.
- Click on “OK” to close the window.



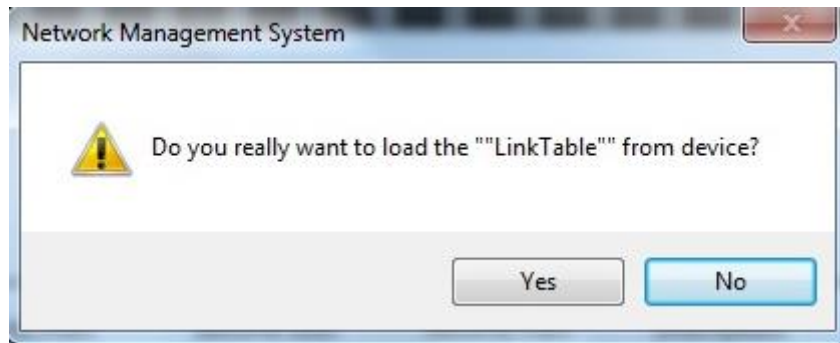
### 5.1.5 Access Sheet from Equipment

The existing worksheets already linked to the equipment can be viewed or modified.

- Click on “Access Worksheet from Equipment.”



- System notification: Do you want to access “Hardware Setting” and “Worksheet” from equipment?
- Click on “Yes (Y).”



- System notification: Access sheet successful!

## 5.2 Connection Mode Setting

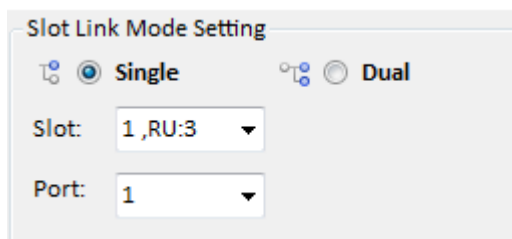
Data Wave Network management system can be established with or changed to port or link mode system.

### 5.2.1 Port Mode Setting - Dropdown Menu

- Select the scanner for setting.
- Click on “Work Program Management” to perform the setting.
- In the “Link Mode Setting”, select “Port Mode.”
- Use the dropdown menu of “Slot” to select the distribution frame for setting.
- Use the dropdown menu of “Port” to select the distribution frame for setting.

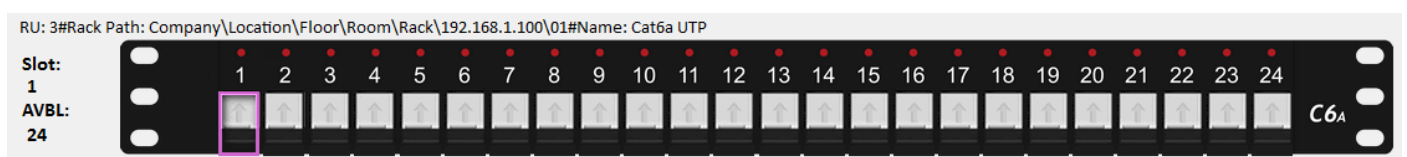
### 5.2.2 Port Mode Setting - Click on Distribution Frame Illustration

- Select the scanner for setting.
- Click on “Work Program Management” to perform the setting.
- In the “Link Mode Setting”, select “Port Mode.”



Use the dropdown menu of “Slot” to select the distribution frame for setting.

- Use “Distribution Frame Illustration” to perform the setting of distribution frame port.



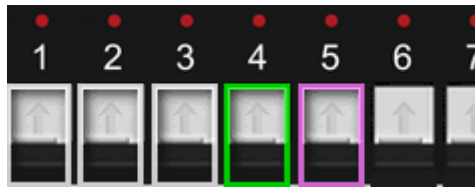
- Click on “Add” and the system is able to add a project.

- The “Distribution Table” below is able to display the already paired set up.

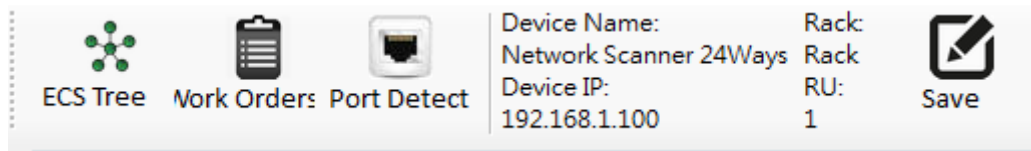
Sel.	No	Status	Mode	First Slot	First Port	F_Physical Location	Second Slot	Second Port	S_Physical Location	Discription	FE Device	FE ID
<input type="checkbox"/>	1	None	Single	1	1	RU: 3#Rack ...	X	X	None			
<input type="checkbox"/>	2	None	Single	1	2	RU: 3#Rack ...	X	X	None			
<input type="checkbox"/>	3	None	Single	1	3	RU: 3#Rack ...	X	X	None			
<input checked="" type="checkbox"/>	4	None	Single	1	4	RU: 3#Rack ...	X	X	None			

**Hint:** Since it is under “Single pair mode”, the 2nd set of distribution frame and the port are indicated with “X” and are highlighted in grey, meaning that they cannot be used.

- In the distribution frame illustration, the color of the port already set up is turned to grey, and cannot be operated.
- The “purple” bracket below indicates the port already selected by using mouse, and it is under the state of available for use.
- When a user selects a certain port in the pairing table below, the port image is indicated with a “green” bracket.



- After the setting is complete, the front of the distribution frame illustration will display the following information
- Slot: slot (number of the distribution frame)
- AVBL: Quantity of remaining ports available for use
- After the setting is complete, click on “Save” action to save the setting data into the database



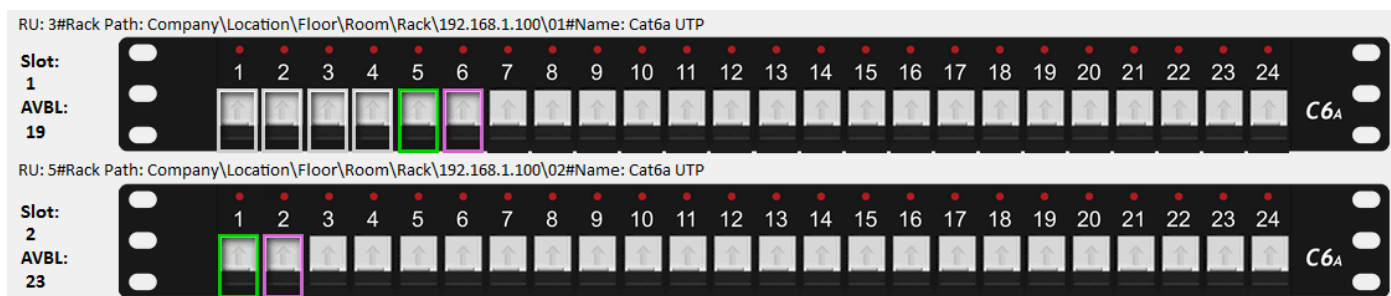
### 5.2.3 Double Pair Mode Setting - Dropdown Menu

- Select the scanner for setting.
- Click on “Worksheet” to perform setting.
- In the “Link Mode Setting”, select “Link”
- Use the dropdown menu of “Slot” to select the distribution frame for setting.



Hint: When selecting the 1st distribution frame, the system is able to load the 2nd distribution frame according to the pairing combination set in the “Hardware Setting” of the Main Page.

- Sequentially select the port of the 1st distribution frame and the port of the 2nd distribution frame.
- At this time, from the distribution frame illustration below, the port locations of the two distribution frames set can be seen.



- Click on “Add” to add this set of pair onto the pairing table.

## 5.2.4 Double Pairing Mode Setting - Click on distribution frame

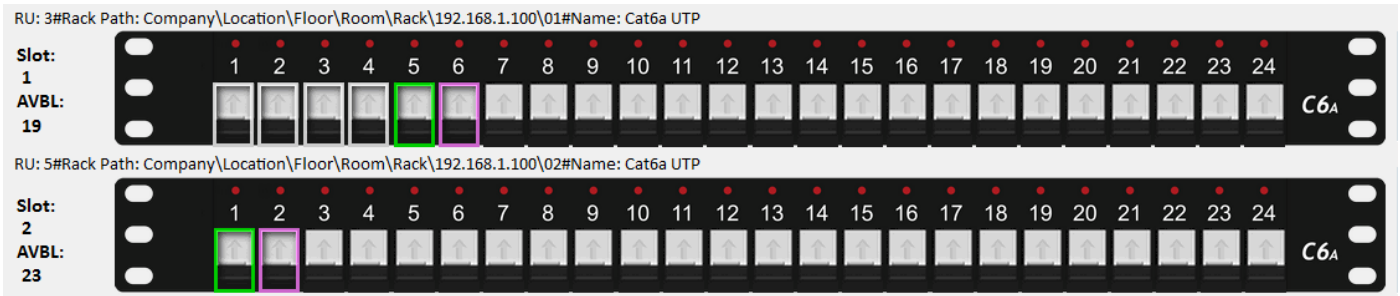
### illustration

- Select the scanner for setting.
- Click on “Worksheet” to perform setting.
- In the “Link Mode Setting”, select “Link”
- Use the dropdown menu of “Slot” to select the distribution frame for setting.

Hint: When selecting the 1st distribution frame, the system is able to load the 2nd distribution frame according to the

pairing combination set in the “Hardware Setting” of the Main Page.

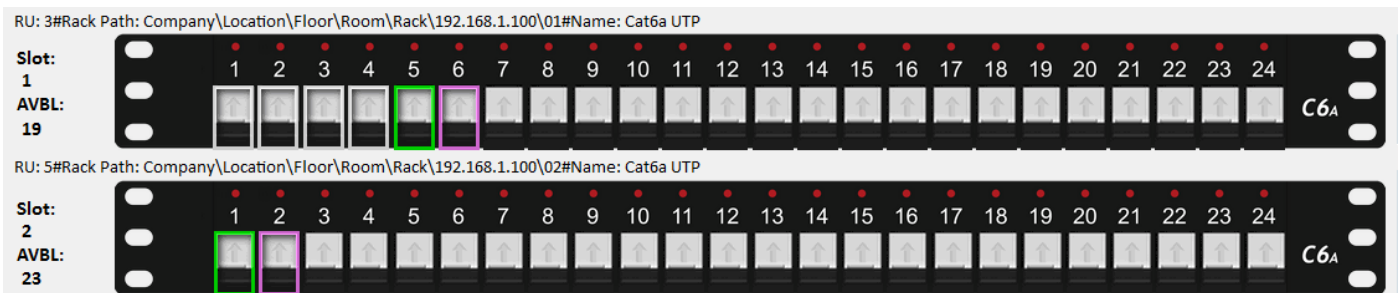
- Use the illustration to select the port for connection



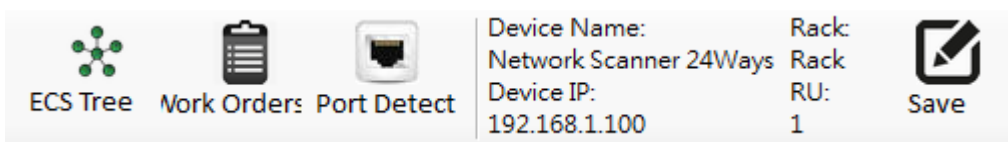
- Click on “Add” to add this set of pair onto the pairing table.
- In the pairing table, a set of paired items is already added.

	4	None	Single	1	4	RU: 3#Rack ...	X	X	None			
	5	None	Dual	1	5	RU: 3#Rack ...	2	1	RU: 5#Rack ...			

- Click on the pairing table, and the distribution frame illustration shows a green bracket, indicating that the setting is complete. The remaining number of ports available for use are 19 & 23 ports.



- After the setting is complete, the front of the distribution frame illustration will display the following information
- Slot: slot (number of the distribution frame)
- AVBL: Quantity of remaining ports available for use
- After the setting is complete, click on “Save” action to save the setting data into database.

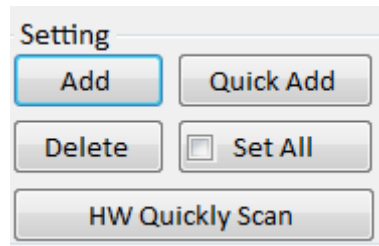


## 5.3 Quick Creation of Worksheet

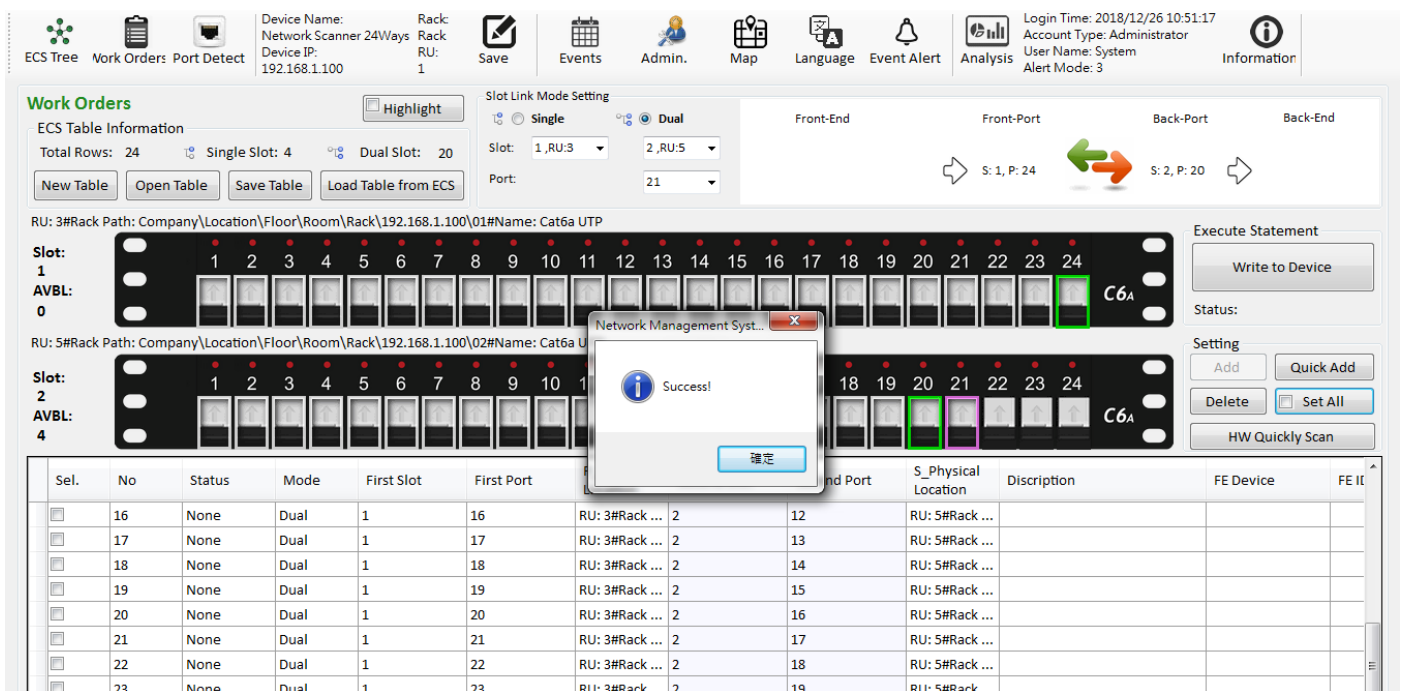
For both the single pair or double pair modes, during the selection of Add new pair, it allows simple and fast addition of the pair.

### 5.3.1 Sequence Addition

- Click on “Quick Add” directly and the system increases the serial number one by one by default.



- As shown in the table below, the serial number is added automatically, and the numbers are selected one by one sequentially.



The screenshot shows the Network Management System interface. The 'Work Orders' section is active, displaying a table of work orders. A 'Setting' dialog box is open, showing the 'Add' and 'Quick Add' buttons. The table below shows the work orders:

SEL	No	Status	Mode	First Slot	First Port	2nd Port	S <sub>1</sub> Physical Location	Discription	FE Device	FE It
<input type="checkbox"/>	16	None	Dual	1	16	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	17	None	Dual	1	17	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	18	None	Dual	1	18	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	19	None	Dual	1	19	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	20	None	Dual	1	20	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	21	None	Dual	1	21	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	22	None	Dual	1	22	RU: 3#Rack ... 2	RU: 5#Rack ...			
<input type="checkbox"/>	23	None	Dual	1	23	RU: 3#Rack ... 2	RU: 5#Rack ...			

### 5.3.2 Quick Scan for Addition

If jumpers have all been connected onto the distribution frame, the scanner can be used to scan the current distribution status automatically and save the new worksheets.

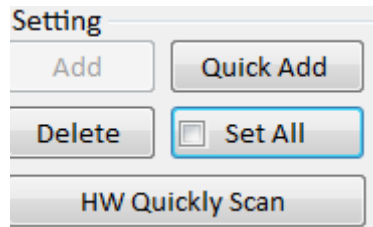
- Click on hardware quick scan.
- Worksheet automatically established.
- Select Save.

- Select Execute.

## 5.4 Delete Pairing

If there is a port not in use any more, it can be deleted according to the following steps:

- Select the configuration to be deleted (the All setting function can be used to select all of the worksheets)
- Click on the Delete button



## 5.5 Save

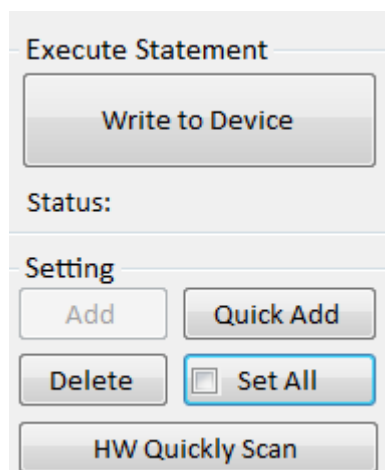
Perform save to temporarily save the current worksheet in the computer end in order to avoid loss of data due to change of page.



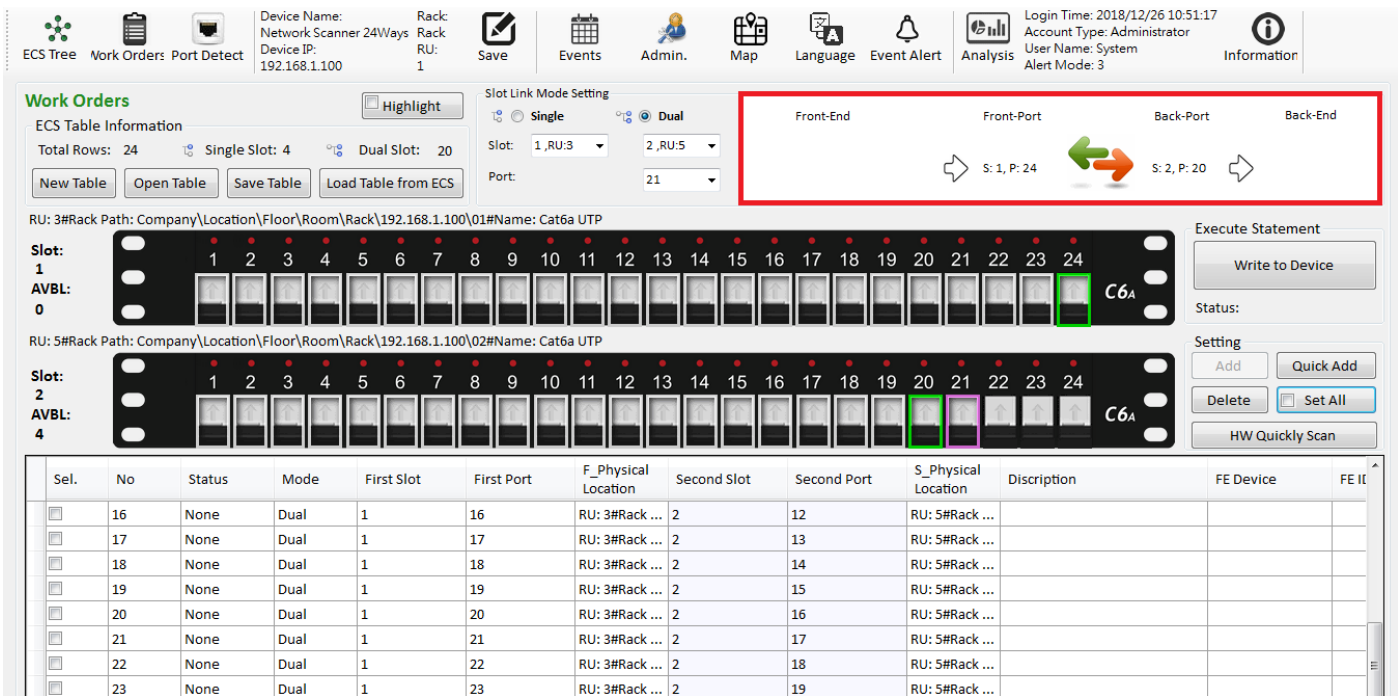
## 5.6 Save Worksheet into Equipment

If the sheet content is confirmed, then the sheet can be saved into the equipment. Execution steps are as follows:

- Select "Execute."
- The scanner is able to receive the current worksheet and execute scanning according to the worksheet.

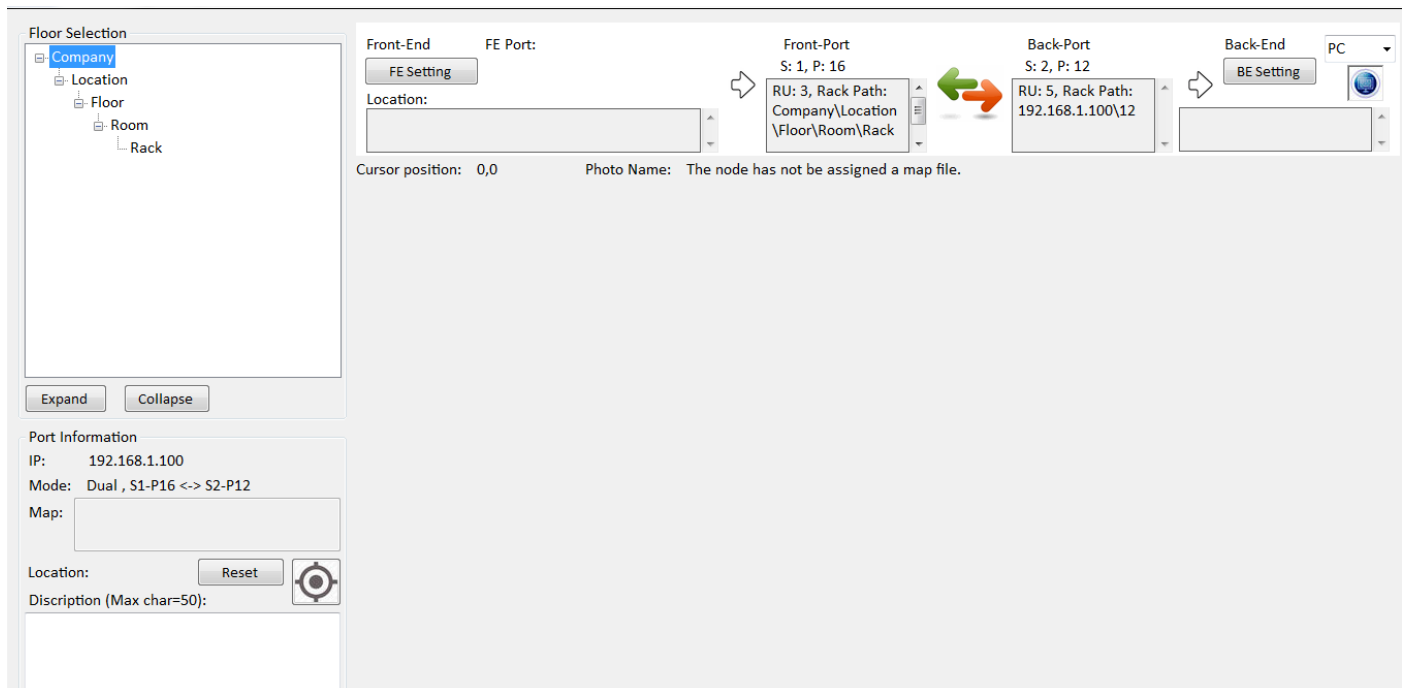


## 5.7 Setting of Front/Back End Link Functions



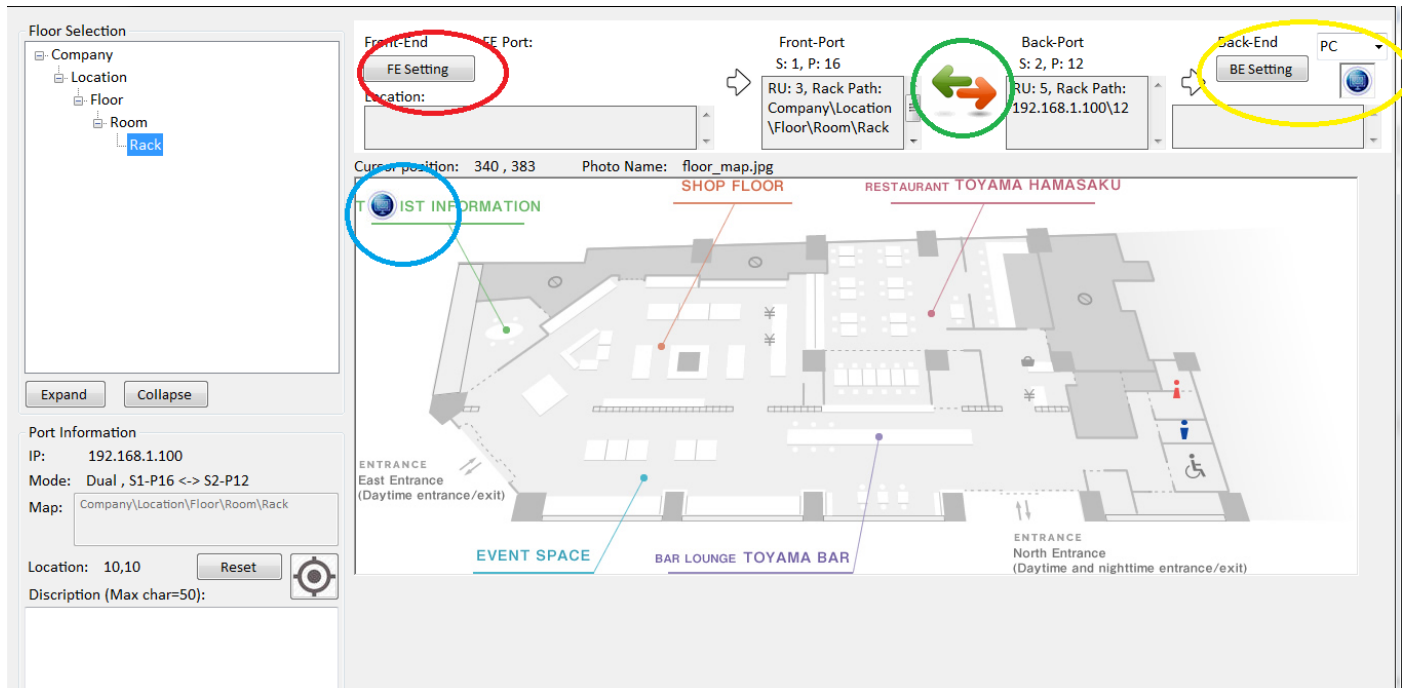
Pic1-4

1. Select the worksheet for the front-end and back-end configuration status. Click on the mouse twice to open the window as shown in Pic1-5.



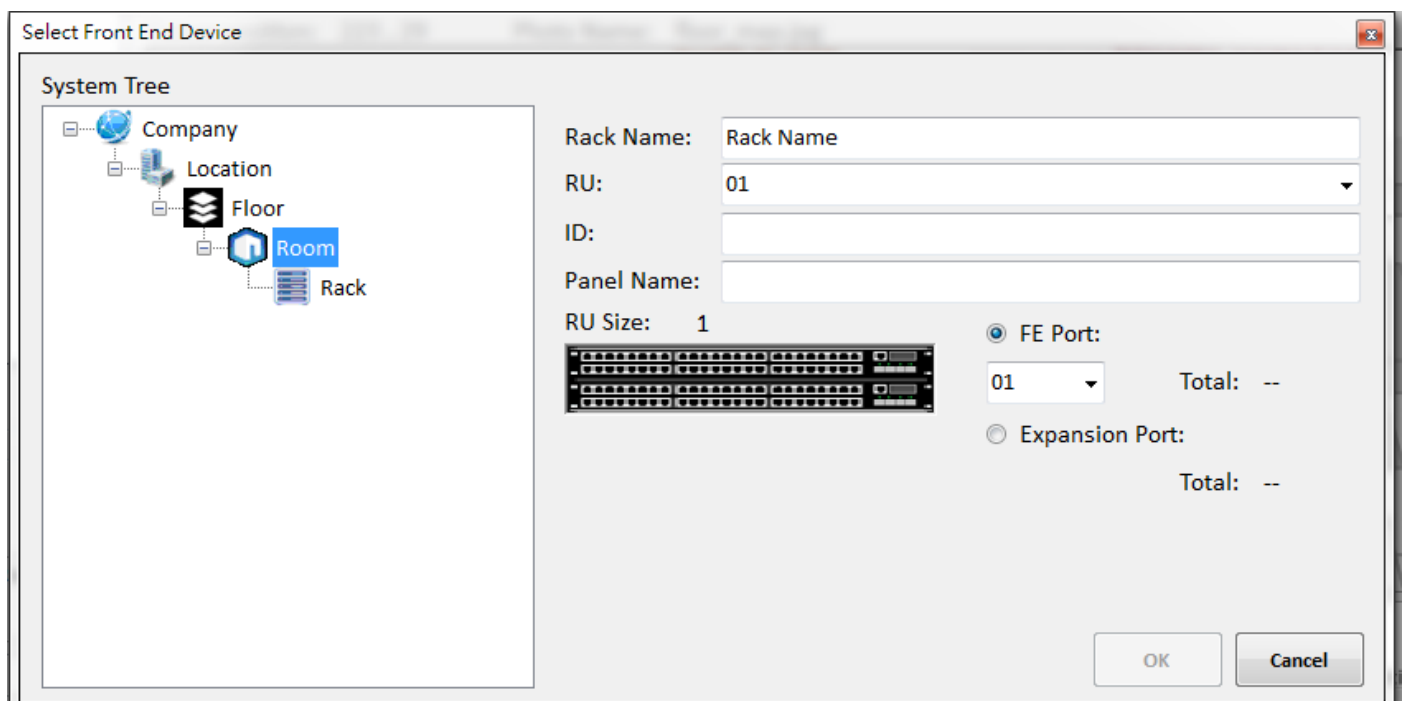
Pic1-5

2. Click on the bit location and the cabinet for configuration, the corresponding layout map is displayed automatically. (as shown in Pic1-6)



Pic1-6

- A. Green circle: Click on this area to change between the corresponding front and back port.
- B. Yellow circle: The terminal equipment can be selected, such as PC, NB, FAX, etc.
- C. Blue circle: This picture changes according to the different terminal equipment selected and drag this picture to the appropriate location.
- D. Red circle: Select “FE Setting” to perform setting according to the different front-end equipment.



Pic1-7

- a. Select “FE Setting” and the window as shown in Pic1-7 pops up.
- b. Select the location of the cabinet on the left.

- c. Select the corresponding equipment from “RU” field.
- d. Select the port location connected to the front-end.
- e. Expansion slot is reserved for connection port of other possible non-network connection interface.
- f. Click on OK to exit this window.
- E. If necessary, further notes can be added.
- F. Click on OK to exit this window.
- G. Go back to Worksheet page. If the setting is successful, the configuration status is displayed on the top right corner (as shown in Pic1-8). In addition, other description is displayed at the bottom of the worksheet.
- H. Repeat the above actions to add other pairing information.

Sel.	No	Status	Mode	First Slot	First Port	F_Physical Location	Second Slot	Second Port	S_Physical Location	Discription	FE Device	FE ID
	11	None	Dual	1	11	RU: 3#Rack ...	2	2	RU: 5#Rack ...			
	12	None	Dual	1	12	RU: 3#Rack ...	2	3	RU: 5#Rack ...		1U router\14	OPID
	13	None	Dual	1	13	RU: 3#Rack ...	2	4	RU: 5#Rack ...			
	14	None	Dual	1	14	RU: 3#Rack ...	2	5	RU: 5#Rack ...			
	15	None	Dual	1	15	RU: 3#Rack ...	2	6	RU: 5#Rack ...			
	16	None	Dual	1	16	RU: 3#Rack ...	2	7	RU: 5#Rack ...			
	17	None	Dual	1	17	RU: 3#Rack ...	2	8	RU: 5#Rack ...			
	18	None	Dual	1	18	RU: 3#Rack ...	2	9	RU: 5#Rack ...			

**Hint: Please remember to save data; otherwise the data will not be saved into the database.**

## 5.8 View Port Location

On the worksheet with the port location information already edited, if the port location is to be queried, the port configured can be selected, and left click the mouse twice to view the configuration location of the port on the layout map.

ECS Tree Work Orders Port Detect Device Name: Network Scanner 24/Ways Rack: 192.168.1.100 Rack RU: 1 Save Events Admin. Map Language Event Alert Analysis Login Time: 2018/12/26 10:51:17 Account Type: Administrator User Name: System Alert Mode: 3 Information

### Work Orders

ECS Table Information  
 Total Rows: 19 Single Slot: 9 Dual Slot: 10  
 New Table Open Table Save Table Load Table from ECS

Slot Link Mode Setting  
 Single Dual  
 Slot: 1, RU:3 2, RU:5  
 Port: 20 11

Front-End 1U router\14 Front-Port S: 1, P: 12 Back-Port S: 2, P: 3 Back-End PC

RU: 3# Rack Path: Company\Location\Floor\Room\Rack\192.168.1.100\01#Name: Cat6a UTP  
 Slot: 1 AVBL: 5  
 RU: 5# Rack Path: Company\Location\Floor\Room\Rack\192.168.1.100\02#Name: Cat6a UTP  
 Slot: 2 AVBL: 14

Execute Statement Write to Device Status: Setting Add Quick Add Delete Set All HW Quickly Scan

Sel.	No	Status	Mode	First Slot	First Port	F_Physical Location	Second Slot	Second Port	S_Physical Location	Discription	FE Device	FE ID
<input type="checkbox"/>	11	None	Dual	1	11	RU: 3# Rack ...	2	2	RU: 5# Rack ...			
<input checked="" type="checkbox"/>	12	None	Dual	1	12	RU: 3# Rack ...	2	3	RU: 5# Rack ...		1U router\14	OPID
<input type="checkbox"/>	13	None	Dual	1	13	RU: 3# Rack ...	2	4	RU: 5# Rack ...			
<input type="checkbox"/>	14	None	Dual	1	14	RU: 3# Rack ...	2	5	RU: 5# Rack ...			
<input type="checkbox"/>	15	None	Dual	1	15	RU: 3# Rack ...	2	6	RU: 5# Rack ...			
<input type="checkbox"/>	16	None	Dual	1	16	RU: 3# Rack ...	2	7	RU: 5# Rack ...			
<input type="checkbox"/>	17	None	Dual	1	17	RU: 3# Rack ...	2	8	RU: 5# Rack ...			
<input type="checkbox"/>	18	None	Dual	1	18	RU: 3# Rack ...	2	9	RU: 5# Rack ...			

Floor Selection  
 Company Location Floor Room Rack

Expand Collapse

Port Information  
 IP: 192.168.1.100  
 Mode: Dual, S1-P12 <-> S2-P3  
 Map: Company\Location\Floor\Room\Rack

Location: 93,79 Reset

Discription (Max char=50):

Front-End FE Port: none FE Setting  
 Location: Company\Location\Floor\Room\Rack\01.OPID20181226133613  
 Front-Port S: 1, P: 12 RU: 3, Rack Path: Company\Location\Floor\Room\Rack  
 Back-Port S: 2, P: 3 RU: 5, Rack Path: 192.168.1.100\03  
 Back-End BE Setting PC

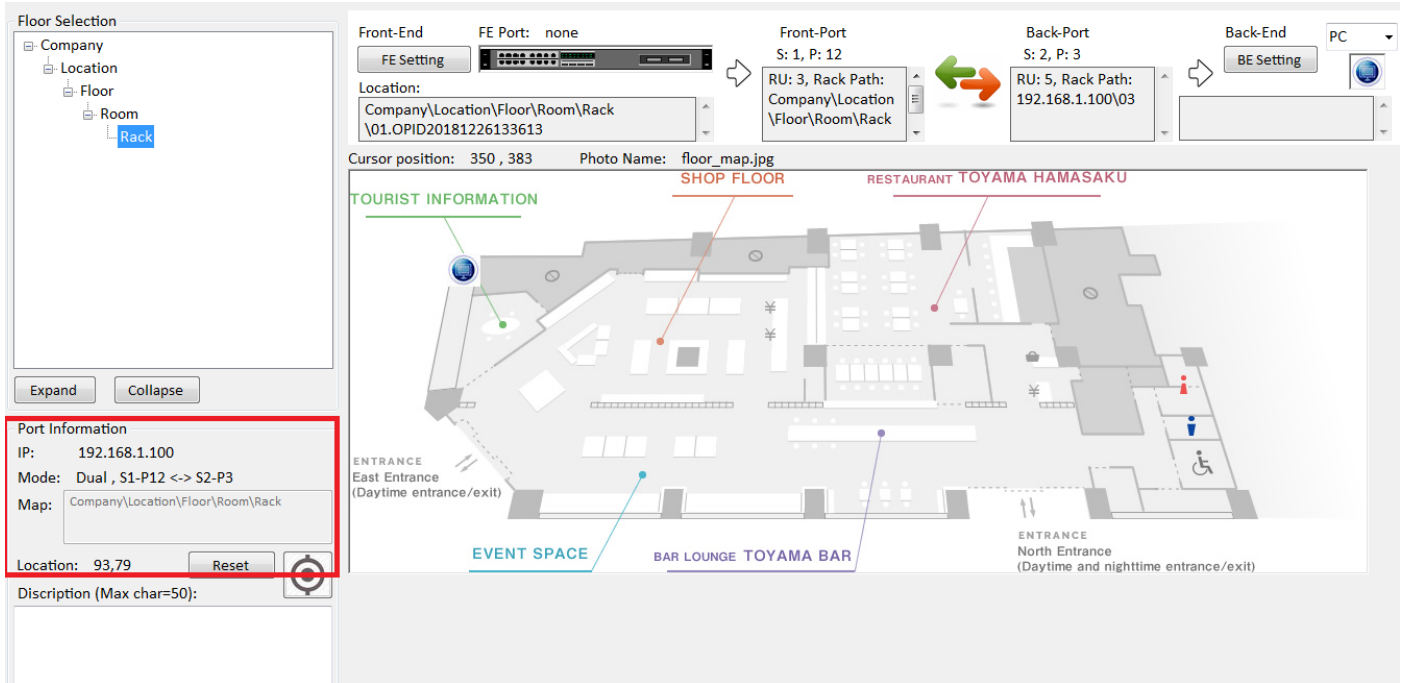
Cursor position: 350, 383 Photo Name: floor\_map.jpg

TOURIST INFORMATION  
 SHOP FLOOR  
 RESTAURANT TOYAMA HAMASAKU  
 EVENT SPACE  
 BAR LOUNGE TOYAMA BAR  
 ENTRANCE East Entrance (Daytime entrance/exit)  
 ENTRANCE North Entrance (Daytime and nighttime entrance/exit)

## 5.9 View Port Information

If the port information is to be viewed on the layout map, please select Illustration, and the port configuration status is displayed at the lower left corner.





## 5.10 Change Port Location and Type

Please repeat action of 5.7.

# 6 Event Log

This page displays all unauthorized actions on the port, including the port being plugged in or disconnected from connection. The information displayed includes the IP address, port connection information and time of occurrence. Administrator can also use this page to approval actions through “legalization.”

Event List

Information

List

Analysis

Total: 93

Reset

☒ Up to the End

☒ Enable Events

Accept

Refresh

Delete

No	IP	Event Name	Event Time	Information	Remark
75	192.168.1.100	Port Error	2018/08/24 11:21:52	S-15,P-05	None
76	192.168.1.100	Port Lost	2018/08/24 12:22:20	S-19,P-10	None
77	192.168.1.100	Port Error	2018/08/24 12:22:22	S-15,P-05	None
78	192.168.1.100	Port Lost	2018/08/24 13:22:50	S-19,P-10	None
79	192.168.1.100	Port Error	2018/08/24 13:22:52	S-15,P-05	None
80	192.168.1.100	Disconnection	2018/08/24 14:19:19	New\Rack\Room\Floor\Location\Co...	None
81	192.168.1.100	Connection	2018/10/08 10:50:37	New\Rack\Room\Floor\Location\Co...	None
82	192.168.1.100	Port Lost	2018/10/08 10:52:21	S-01,P-19	None
83	192.168.1.100	Port Lost	2018/10/08 10:57:21	S-01,P-19	None
84	192.168.1.100	Port Lost	2018/10/08 11:02:21	S-01,P-19	None
85	192.168.1.100	Port Lost	2018/10/08 11:06:12	S-01,P-01	None
86	192.168.1.100	WorkOrder Updated,Sy...	2018/10/08 11:06:50	Time:2018/10/08 10:50:32Type:Adm...	EPS Name:NewIP:192.168.1.100Rack Name:R...
87	192.168.1.100	Port Lost	2018/10/08 11:11:12	S-01,P-01	None
88	192.168.1.100	Port Lost	2018/10/08 11:12:25	S-01,P-10 <-> S-02,P-10	None
89	192.168.1.100	Port Error	2018/10/08 11:13:28	S-01,P-04	None
90	192.168.1.100	WorkOrder Updated,Sy...	2018/10/08 11:14:08	Time:2018/10/08 10:50:32Type:Adm...	EPS Name:NewIP:192.168.1.100Rack Name:R...
91	192.168.1.100	WorkOrder Updated,Sy...	2018/10/08 11:14:11	Time:2018/10/08 10:50:32Type:Adm...	EPS Name:NewIP:192.168.1.100Rack Name:R...
92	192.168.1.100	Port Error	2018/10/08 11:26:14	S-01,P-10	None
93	192.168.1.100	Port Error	2018/10/08 11:38:31	S-01,P-01	None

# 7 User Setting Admin

User can Add, Modify or Delete users on this page. The authority of each user can also be set up on this page.

**Administration Setting**  
User Account Information

Status	Account Type	Account Name	E-Mail	Remark	Alert Setting	Server Email	SMTP Server	SMTP Port

User Account Information

☐ User Account Enable

Account Type: Manager

Account Name: Name

Remark  
Worker01

Email:

Password:

Send Email Alerts

☐ Alarms☐ Hardware Restart

Notifications Email Server

\*Server Email:

Password:

\*SMTP Server:

\*SMTP Port:

Email Verification

Modify Account

Add New Account

Delete Account

Export Database

Import Database

To change password

## 7.1 Add New User

The button of “Add Account” on the right can be used to add a new user. Please input necessary information according to the requirements.

User Account Information

☐ User Account Enable

Account Type: Manager

Account Name: Name

Remark  
Worker01

Email:

Password:

Send Email Alerts

☐ Alarms☐ Hardware Restart

Notifications Email Server

\*Server Email:

Password:

\*SMTP Server:

\*SMTP Port:

Email Verification

Modify Account

Add New Account

Delete Account

Export Database

Import Database

To change password

## 7.2 Setting of User Authority

The option for the Account Type is divided into Manager and Technician. For Manager, such account has the authority to modify worksheets and the power for execution. For Technicians, such account only has the authority for viewing and no modification actions can be made on any worksheets.

User Account Information			
<input type="checkbox"/> User Account Enable	Email: <input type="text"/>	Notifications Email Server	
Account Type: <span>Manager</span>	Password: <input type="text"/>	*Server Email: <input type="text"/>	<input type="button" value="Email Verification"/>
Account Name: <span>Manager</span>		Password: <input type="text"/>	<input type="button" value="Modify Account"/>
Remark: Technician	Send Email Alerts	*SMTP Server: <input type="text"/>	<input type="button" value="Add New Account"/>
Worker01	<input type="checkbox"/> Alarms <input type="checkbox"/> Hardware Restart	*SMTP Port: <input type="text"/>	<input type="button" value="Delete Account"/>
			<input type="button" value="Export Database"/>
			<input type="button" value="Import Database"/>
			<input type="button" value="To change password"/>

## 7.3 Setting of User Name

In the field of “Account Name,” input the user name desired and the action can be described at the Remarks.

User Account Information			
<input type="checkbox"/> User Account Enable	Email: <input type="text"/>	Notifications Email Server	
Account Type: <span>Manager</span>	Password: <input type="text"/>	*Server Email: <input type="text"/>	<input type="button" value="Email Verification"/>
Account Name: <span>Manager</span>		Password: <input type="text"/>	<input type="button" value="Modify Account"/>
Remark: Technician	Send Email Alerts	*SMTP Server: <input type="text"/>	<input type="button" value="Add New Account"/>
Worker01	<input type="checkbox"/> Alarms <input type="checkbox"/> Hardware Restart	*SMTP Port: <input type="text"/>	<input type="button" value="Delete Account"/>
			<input type="button" value="Export Database"/>
			<input type="button" value="Import Database"/>
			<input type="button" value="To change password"/>

## 7.4 Setting of User Login Information

The email and password here refers to the login account and password used for the login of user. There is no limitation on the length of the password and it is recommended to use a password consisting 6~8 characters and in combination of alphabets and numbers.

User Account Information			
<input type="checkbox"/> User Account Enable	Email: <input type="text"/>	Notifications Email Server	
Account Type: <span>Manager</span>	Password: <input type="text"/>	*Server Email: <input type="text"/>	<input type="button" value="Email Verification"/>
Account Name: <span>Manager</span>		Password: <input type="text"/>	<input type="button" value="Modify Account"/>
Remark: Technician	Send Email Alerts	*SMTP Server: <input type="text"/>	<input type="button" value="Add New Account"/>
Worker01	<input type="checkbox"/> Alarms <input type="checkbox"/> Hardware Restart	*SMTP Port: <input type="text"/>	<input type="button" value="Delete Account"/>
			<input type="button" value="Export Database"/>
			<input type="button" value="Import Database"/>
			<input type="button" value="To change password"/>

## 7.5 Setting of Administrator Email Server

Please input the server address and server port according to the setting provided by the email one by one in order to use this function properly.

User Account Information			
<input type="checkbox"/> User Account Enable	Email: <input type="text"/>	Notifications Email Server	
Account Type: <span>Manager</span>	Password: <input type="text"/>	*Server Email: <input type="text"/>	<input type="button" value="Email Verification"/>
Account Name: <span>Manager</span>		Password: <input type="text"/>	<input type="button" value="Modify Account"/>
Remark: Technician	Send Email Alerts	*SMTP Server: <input type="text"/>	<input type="button" value="Add New Account"/>
Worker01	<input type="checkbox"/> Alarms <input type="checkbox"/> Hardware Restart	*SMTP Port: <input type="text"/>	<input type="button" value="Delete Account"/>
			<input type="button" value="Export Database"/>
			<input type="button" value="Import Database"/>
			<input type="button" value="To change password"/>

## 7.6 Email Verification

After clicking on “Email Address Certification,” the system sends out a confirmation letter to the mailbox set in order to ensure that the mailbox is correct.

Notifications Email Server

\*Server Email:

Password:

\*SMTP Server:

\*SMTP Port:

Email Verification

Modify Account

Add New Account

Delete Account

## 7.7 Change User Information

To change the user information, please select the account to be changed, and then select “Change Account Setting.” The contents can then be modified.

Notifications Email Server

\*Server Email:

Password:

\*SMTP Server:

\*SMTP Port:

Email Verification

Modify Account

Add New Account

Delete Account

## 7.8 Delete User

To delete user information, please select the account to be deleted, and then select “Delete Account.” The account is then deleted.

Notifications Email Server

\*Server Email:

Password:

\*SMTP Server:

\*SMTP Port:

Email Verification

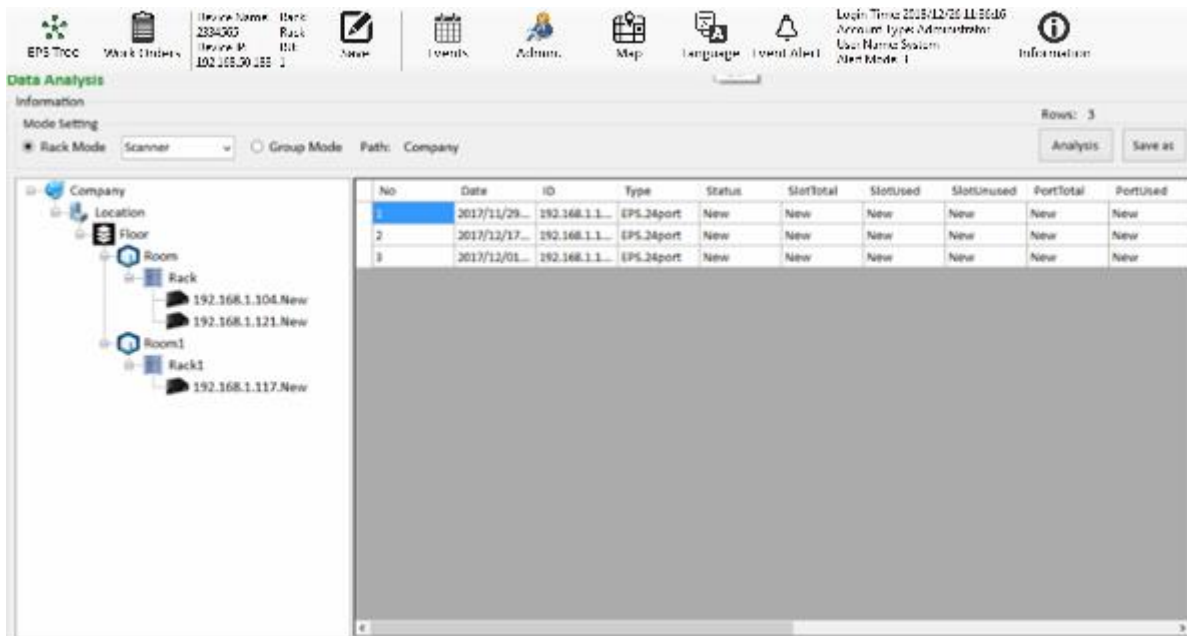
Modify Account

Add New Account

Delete Account

# 8 Fixed Asset Management Function

## 8.1 Click on “Analysis” on the Menu



## 8.2 Select the item to be queried

# 9 History Warning Information, Worksheet

## Information Quick Search and Export

### 9.1 Select “Event Log” from the function menu.

**Event List**

Information

List Analysis

Total: 93

Reset ☒ Up to the End ☒ Enable Events Accept Refresh Delete

No	IP	Event Name	Event Time	Information	Remark
75	192.168.1.100	Port Error	2018/08/24 11:21:52	S-15,P-05	None
76	192.168.1.100	Port Lost	2018/08/24 12:22:20	S-19,P-10	None
77	192.168.1.100	Port Error	2018/08/24 12:22:22	S-15,P-05	None
78	192.168.1.100	Port Lost	2018/08/24 13:22:50	S-19,P-10	None
79	192.168.1.100	Port Error	2018/08/24 13:22:52	S-15,P-05	None
80	192.168.1.100	Disconnection	2018/08/24 14:19:19	New\Rack\Room\Floor\Location\Co...	None
81	192.168.1.100	Connection	2018/10/08 10:50:37	New\Rack\Room\Floor\Location\Co...	None
82	192.168.1.100	Port Lost	2018/10/08 10:52:21	S-01,P-19	None
83	192.168.1.100	Port Lost	2018/10/08 10:57:21	S-01,P-19	None
84	192.168.1.100	Port Lost	2018/10/08 11:02:21	S-01,P-19	None
85	192.168.1.100	Port Lost	2018/10/08 11:06:12	S-01,P-01	None
86	192.168.1.100	WorkOrder Updated,Sy...	2018/10/08 11:06:50	Time:2018/10/08 10:50:32Type:Adm...	EPS Name:NewIP:192.168.1.100Rack Name:R...
87	192.168.1.100	Port Lost	2018/10/08 11:11:12	S-01,P-01	None
88	192.168.1.100	Port Lost	2018/10/08 11:12:25	S-01,P-10 <-> S-02,P-10	None
89	192.168.1.100	Port Error	2018/10/08 11:13:28	S-01,P-04	None
90	192.168.1.100	WorkOrder Updated,Sy...	2018/10/08 11:14:08	Time:2018/10/08 10:50:32Type:Adm...	EPS Name:NewIP:192.168.1.100Rack Name:R...
91	192.168.1.100	WorkOrder Updated,Sy...	2018/10/08 11:14:11	Time:2018/10/08 10:50:32Type:Adm...	EPS Name:NewIP:192.168.1.100Rack Name:R...
92	192.168.1.100	Port Error	2018/10/08 11:26:14	S-01,P-10	None
93	192.168.1.100	Port Error	2018/10/08 11:38:31	S-01,P-01	None

### 9.2 After entering, click on Analyze Page.

**Event List**

Information

List Analysis

Mode Selection: Scanner Disconnection ☒ 192.168.1.100 ☒ Date Range: 2018年 8月22日 ~ 2018年12月26日 Analysis Save as

Created Date:2018/08/22 15:45:35  
Type:Disconnection

Total: 0

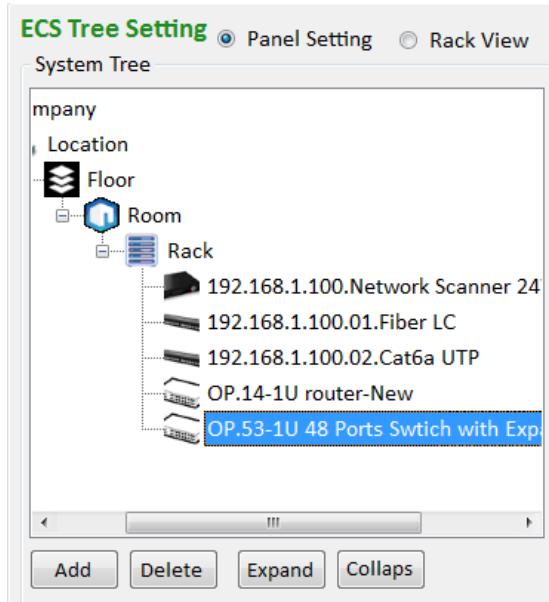
No	IP	Event Name	Event Time	Information	Remark
----	----	------------	------------	-------------	--------

### 9.3 Select the item to be queried.

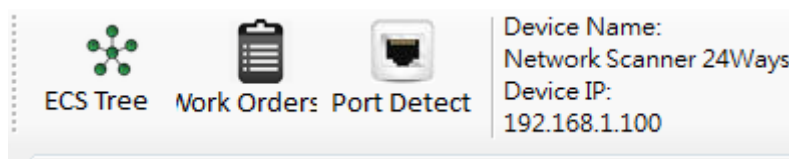


# 10 Switch SNMP Function Instructions

**10.1** In the system tree map on the “Main Page,” add a new switch.



**10.2** On the function menu at the top, click on “Port Detection” to enter into the switch port management configuration.



## 10.3 Switch SNMP Function Instructions

Switch Port Management

Devices | Event List

Record time: 2018/12/26 下午 03:0

MAC-IP address of device table

MAC-IP address in database

Save All

Save Open

Get Data from Device

Copy device table

Properties

ID: OPID20181226150009 Type: 1U 48 Ports Switch with Expansion Port

Name: New

Picture:  Add

IP:  SNMP community:

Detection Port Total:  Purchase Date: 26 December, 201

Vendor:  Model:

Description (Max char=200):  ☐ SNMP Trap Enable

- 1) Select the switch to be configured.
- 2) Input the IP address of the switch.
- 3) Input SNMP Community (SNMP communication password in the switch).
- 4) Select the switch port tree and relevant equipment brand information.

## 10.4 Configure Switch Port Information

Switch Port Management

Devices | Event List

Record time: 2018/12/26 下午 03:0

MAC-IP address of device table

MAC-IP address in database

Save All

Save Open

Get Data from Device

Copy device table

Properties

ID: OPID20181226150009 Type: 1U 48 Ports Switch with Expansion Port

Name: New

Picture:  Add

IP:  SNMP community:

Detection Port Total:  Purchase Date: 26 December, 201

Vendor:  Model:

Description (Max char=200):  ☐ SNMP Trap Enable

Switch Data	User Data
MAC-P01	MAC-P01
IP-P01	IP-P01
MAC-P02	MAC-P02
IP-P02	IP-P02
MAC-P03	MAC-P03
IP-P03	IP-P03
MAC-P04	MAC-P04
IP-P04	IP-P04
MAC-P05	MAC-P05
IP-P05	IP-P05
MAC-P06	MAC-P06
IP-P06	IP-P06
MAC-P07	MAC-P07
IP-P07	IP-P07
MAC-P08	MAC-P08
IP-P08	IP-P08
MAC-P09	MAC-P09
IP-P09	IP-P09
MAC-P10	MAC-P10
IP-P10	IP-P10

- 1) Use "Get Data from Equipment" button to obtain the IP and MAC data from the equipment connected to the switch port.
- 2) Use "Duplicate Equipment List" button to duplicate the switch port data obtained onto the column on the right.
- 3) Administrator can input the relevant planned IP and MAC data of the switch.
- 4) Use "Compare" button to compare the data of the actual switch and the planned data of the

administrator. In case where any data is found to be different, the background color of this field is changed to red.

5) Use the “Save All” button to save the configuration of such switch in the database.

## 10.5 Export and Loading of Switch Port Information



- 1) The configuration data (.csv) of the switch can be exported.
- 2) The configuration data (.csv) of the switch can be loaded.

### Step 6. Switch Error Event Log

The screenshot shows a web application titled 'Switch Port Management' with a tabbed interface. The 'Event List' tab is active. It displays a table with 11 columns: No, ID, IP, Port, Vendor, Model, EventName, EventTime, Inf, and Remark. The table contains two rows of data, both with a blue background. Above the table, there is a 'Total: 2' label, a 'Reset' button, two checked checkboxes labeled 'Up to the End' and 'Enable Events', and a 'Refresh' button. A large grey rectangular area is visible below the table, likely a placeholder for a chart or additional data.

No	ID	IP	Port	Vendor	Model	EventName	EventTime	Inf	Remark
1		192.168.1.100							
2		192.168.1.100							

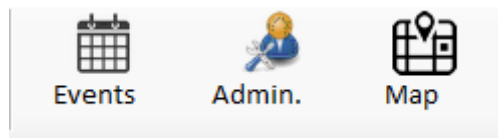
When a change occurs at the port of the switch, the switch will send an event information to the Administrator IP.

(\*Note: Administrator is required to open and configure the IP address for the SNMP information transmission of the switch).

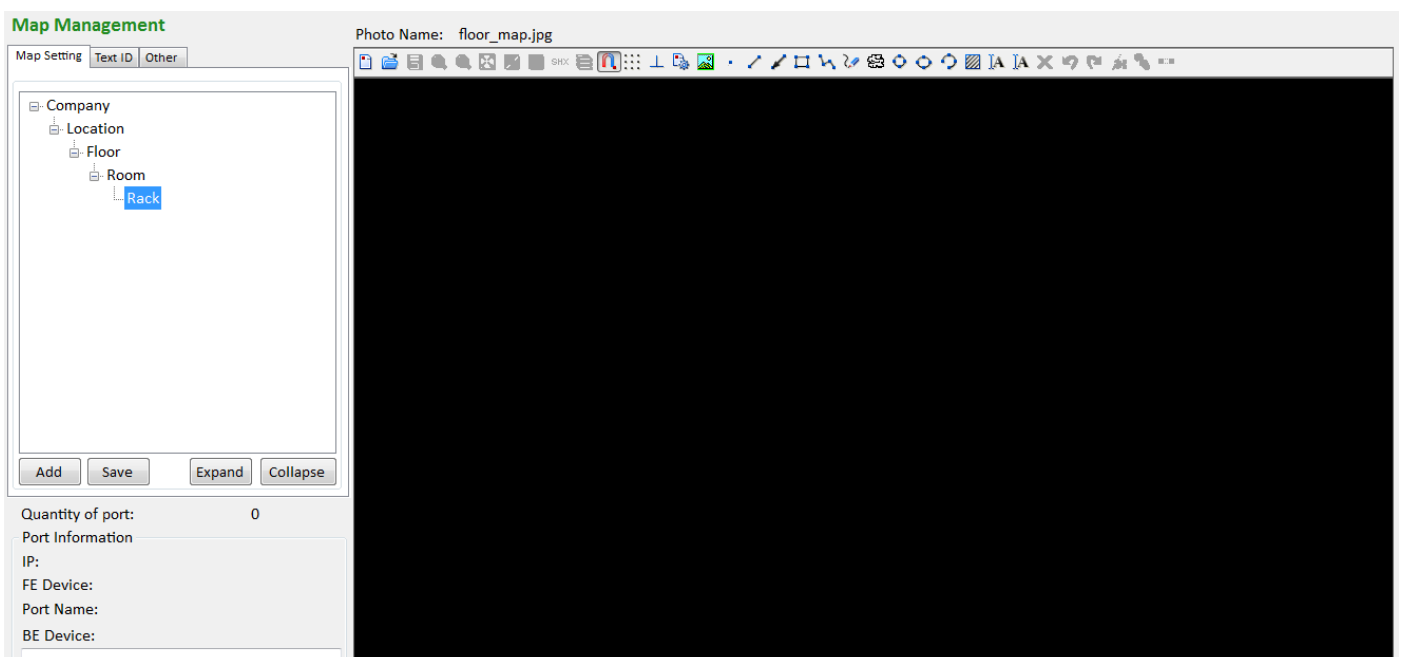
Plug OUT: Remove the switch port equipment; Plug IN: connect equipment to the switch port.

# 11 Map Function Instructions

**11.1** On the function menu at the top, click on “Map Function” to enter into the map management configuration.

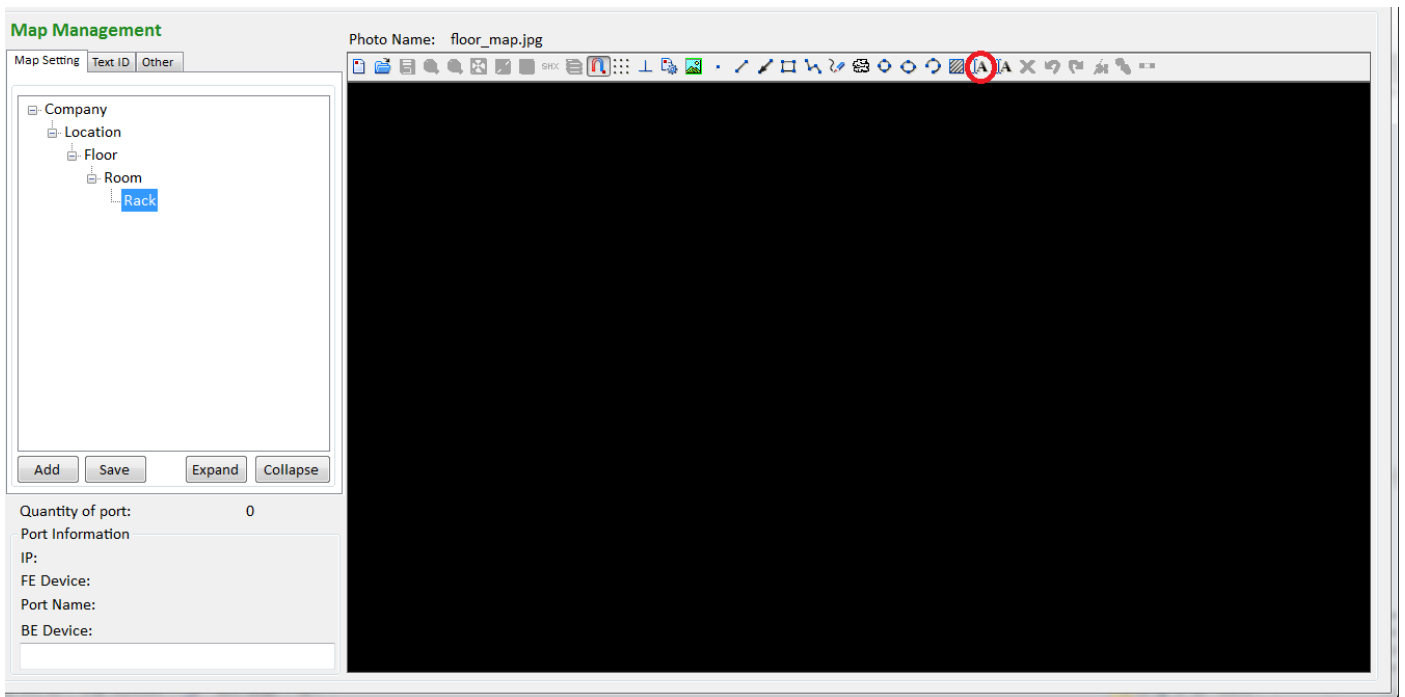


**11.2** Load map file

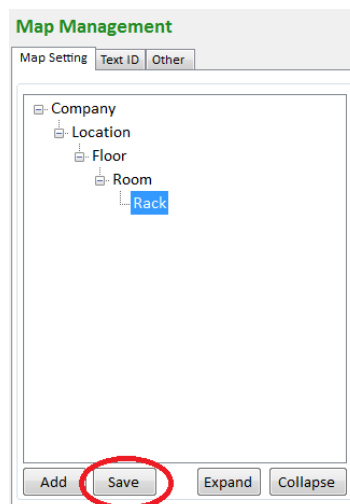


- 1) On the map configuration tree map, click on a node
- 2) Use “Add” button, or select dxf or dwg vector drawing file. After the file is opened, the section on the right displays the map information.

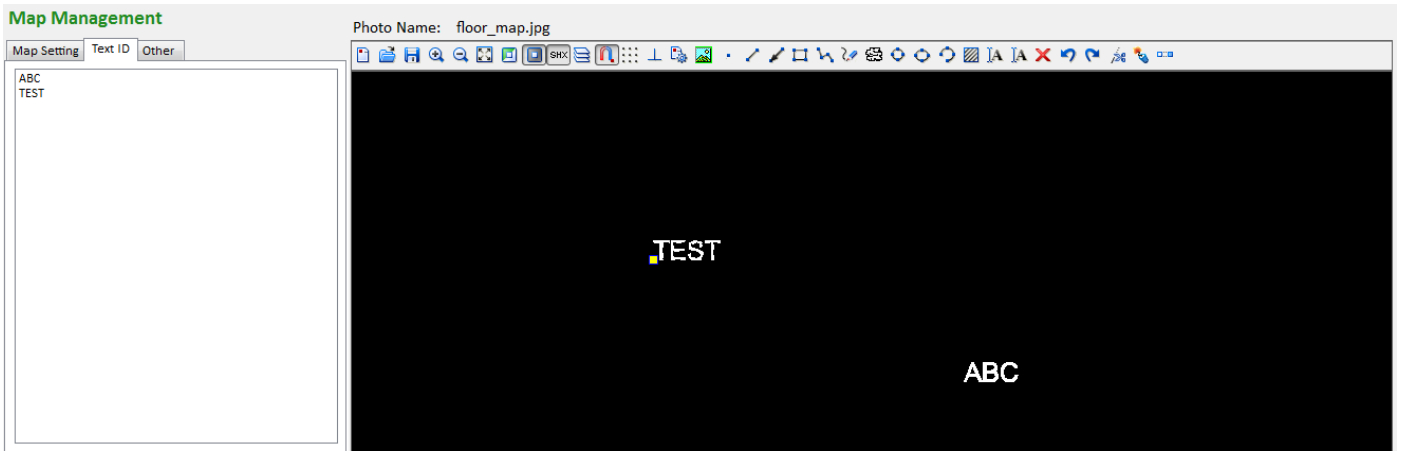
### 11.3 Add Information Point



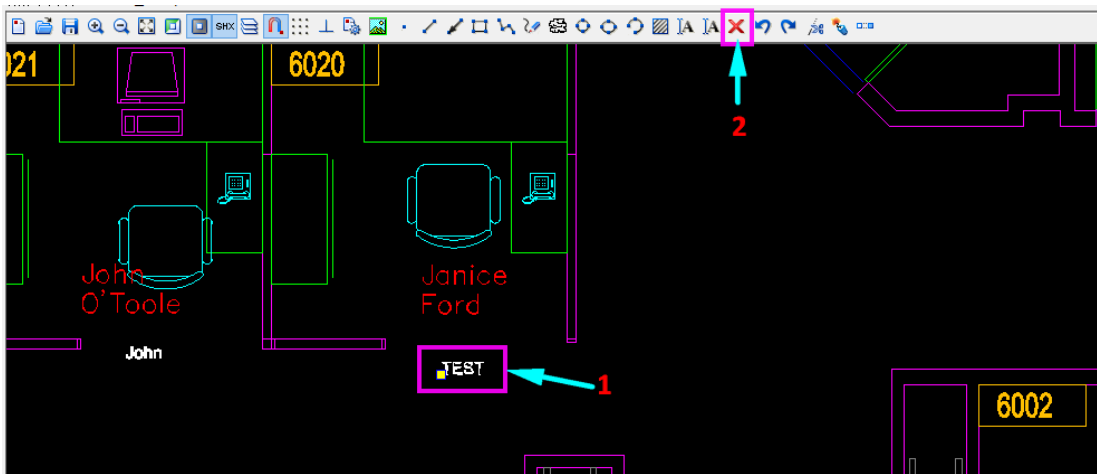
- 1) After selecting the Add Text button, left click on the mouse on a location of the map for inserting the text, and input the information point name.
- 2) After clicking on OK, the location now displays the name of the information point.
- 3) After adding the information point names sequentially, please be sure to click on the “Save” button on the map setting page.



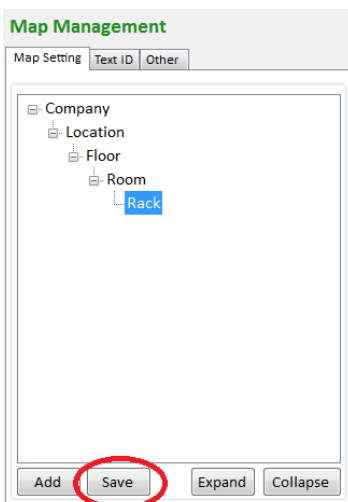
- 4) After the information point names are saved, go to the information point page, and the information point newly added is displayed on the list.



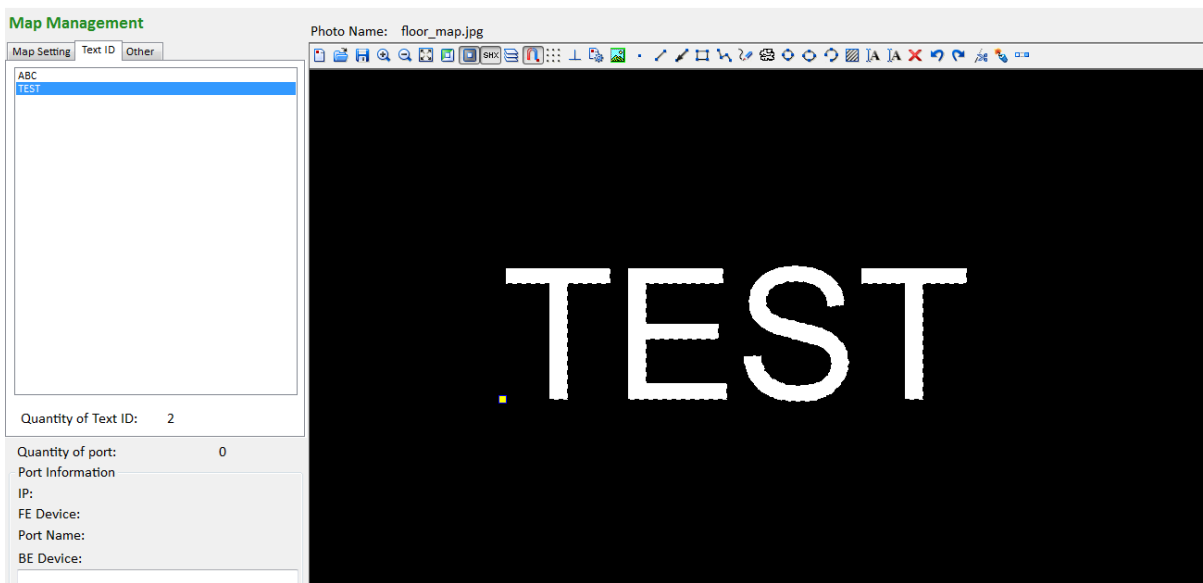
## 11.4 Delete Information Point



- 1) Select the information point
- 2) Click on "Delete" button
- 3) After deleting the information point names sequentially, please be sure to click on the "Save" button on the map setting page.

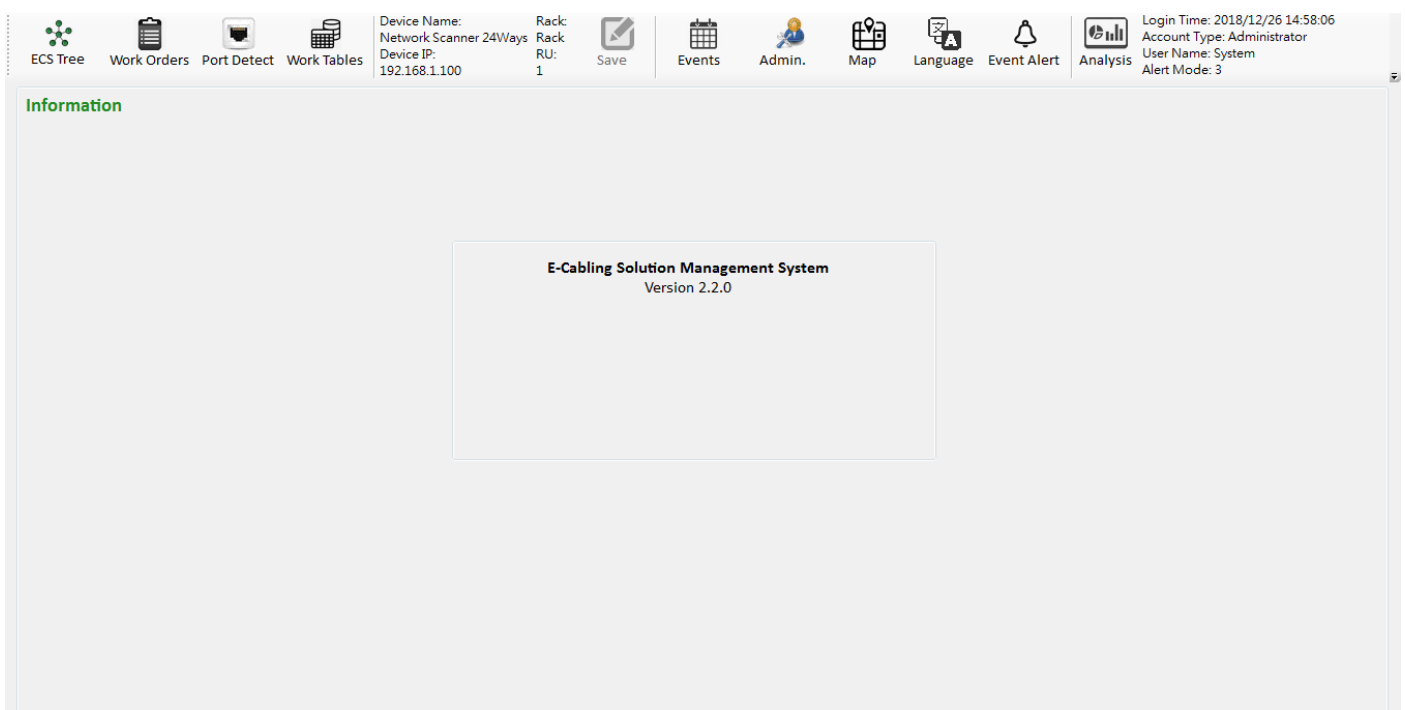


## 11.5 Zoom IN to Information Point

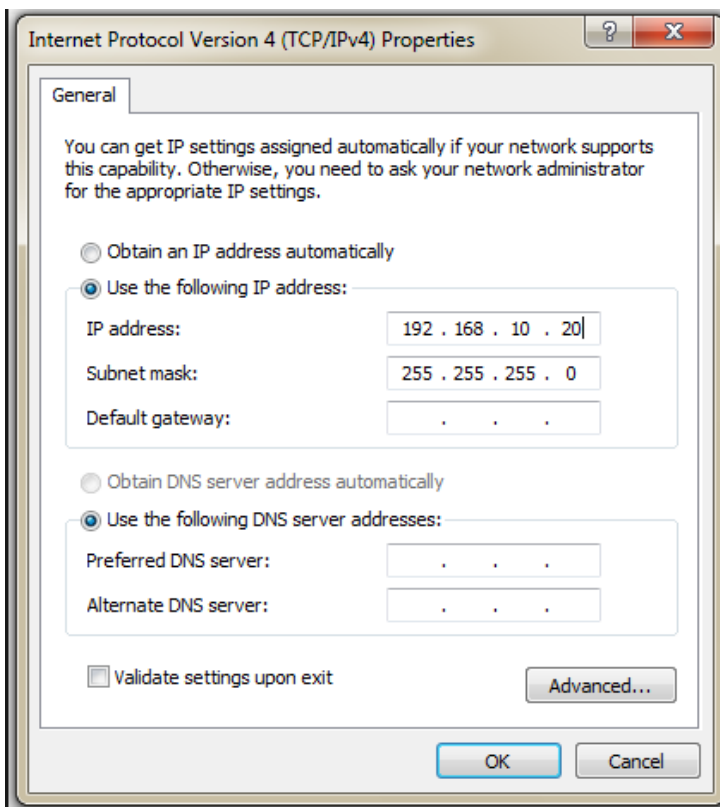


- 1) On the Information Point ID List, select the information point field and left click on the mouse twice, then the map viewing window is able to locate the information point ID, and zoom in such point location.

## 11.6 About:



# Appendix A: IP Setting Example



IP Address (I): Default is 192.168.1.XXX

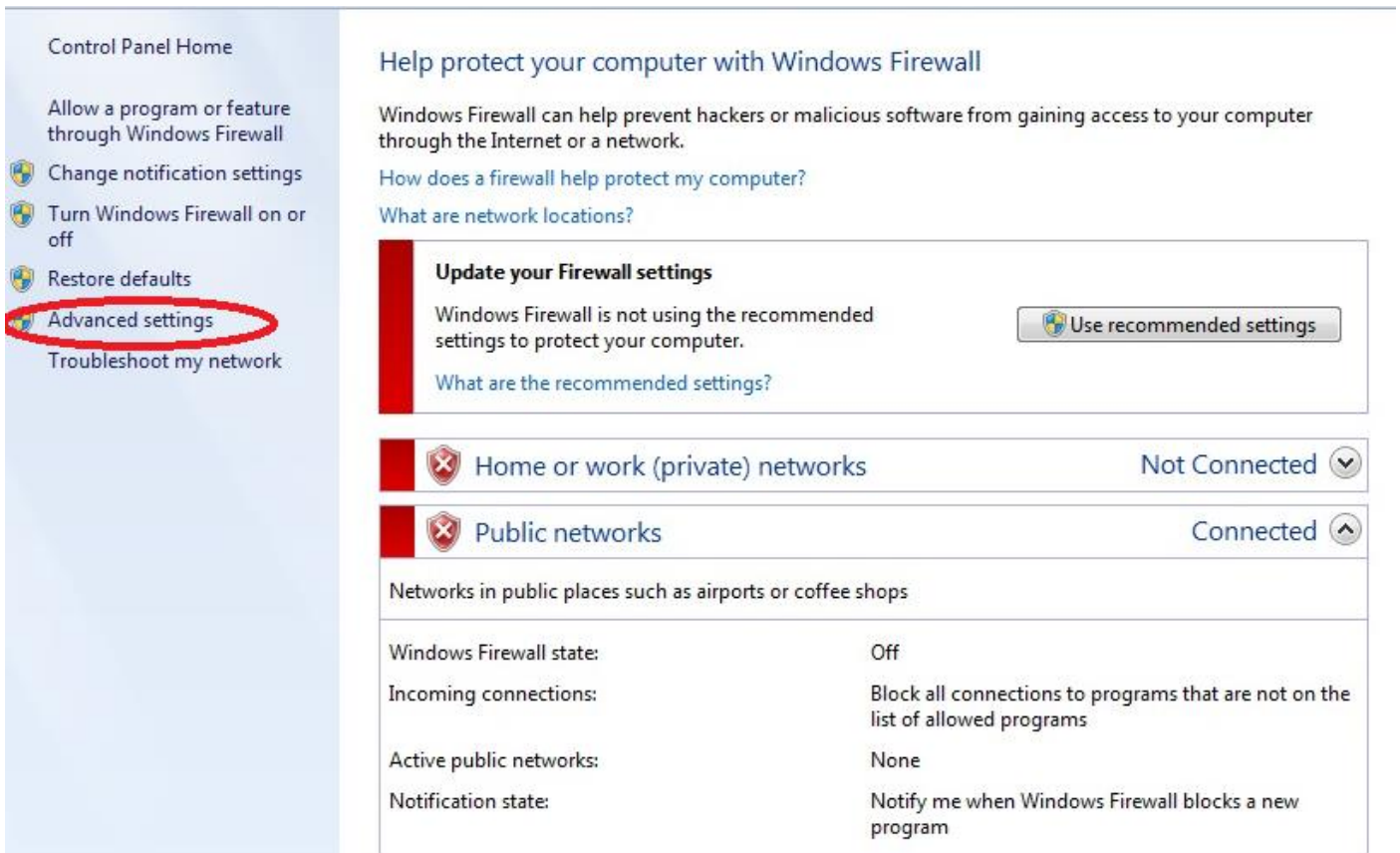
Sub-net Mask (U): 255.255.255.0

Default Gateway (D): 192.168.1.XXX



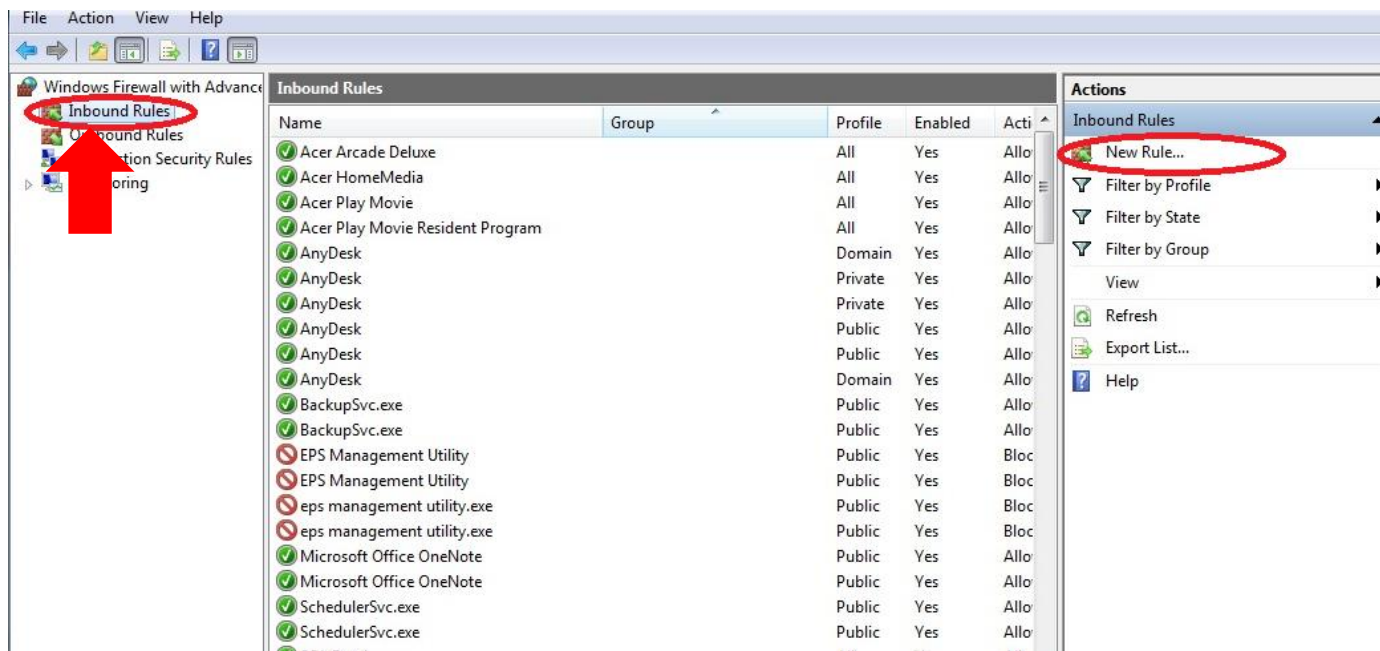
# Appendix B: Setting of Firewall

Step 1: Start Toolbar > Windows Firewall > Advanced Setting



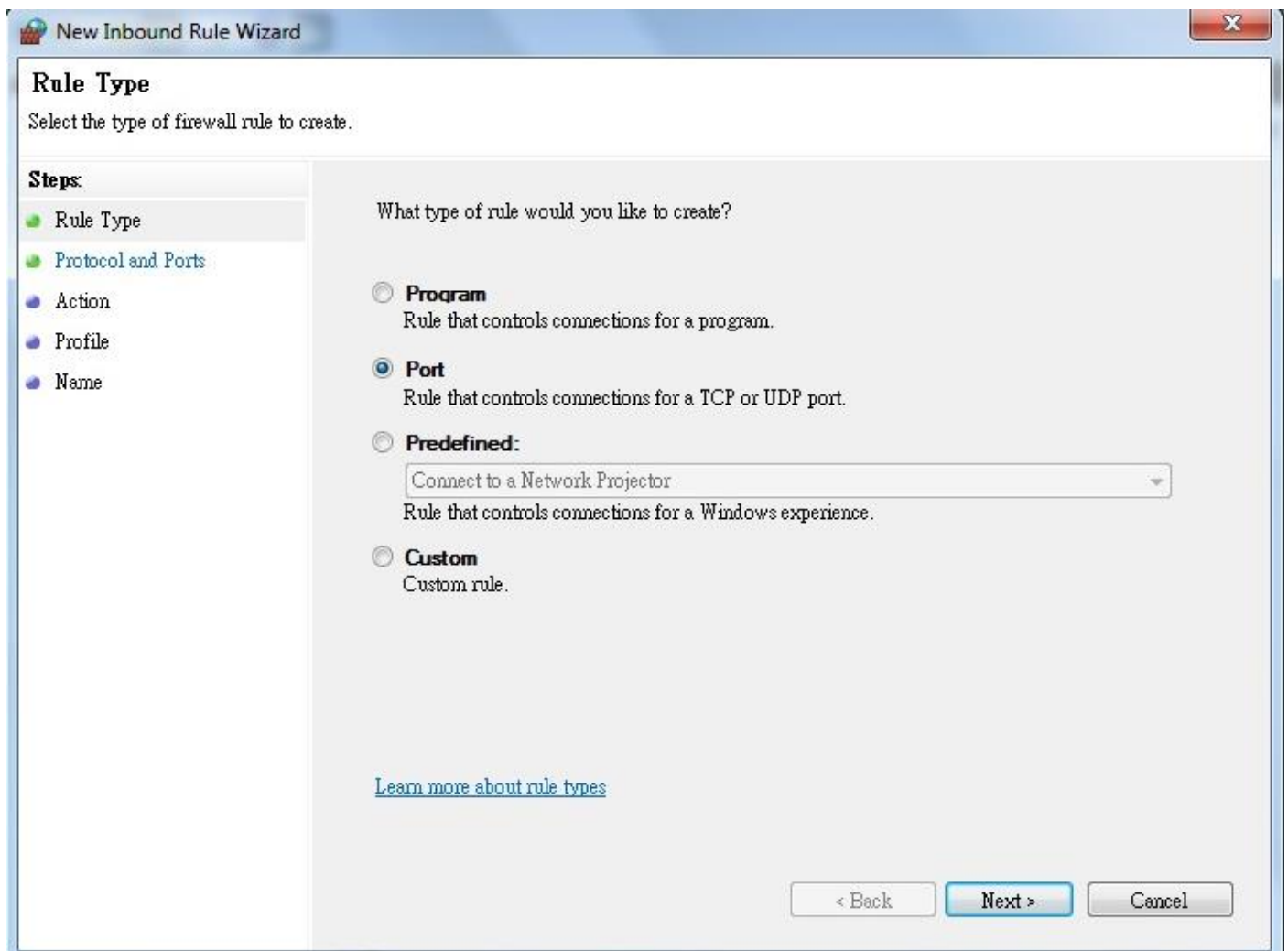
Step 2: Windows Firewall with Advanced Security

Step 3: Input Rules > Add New Rules...



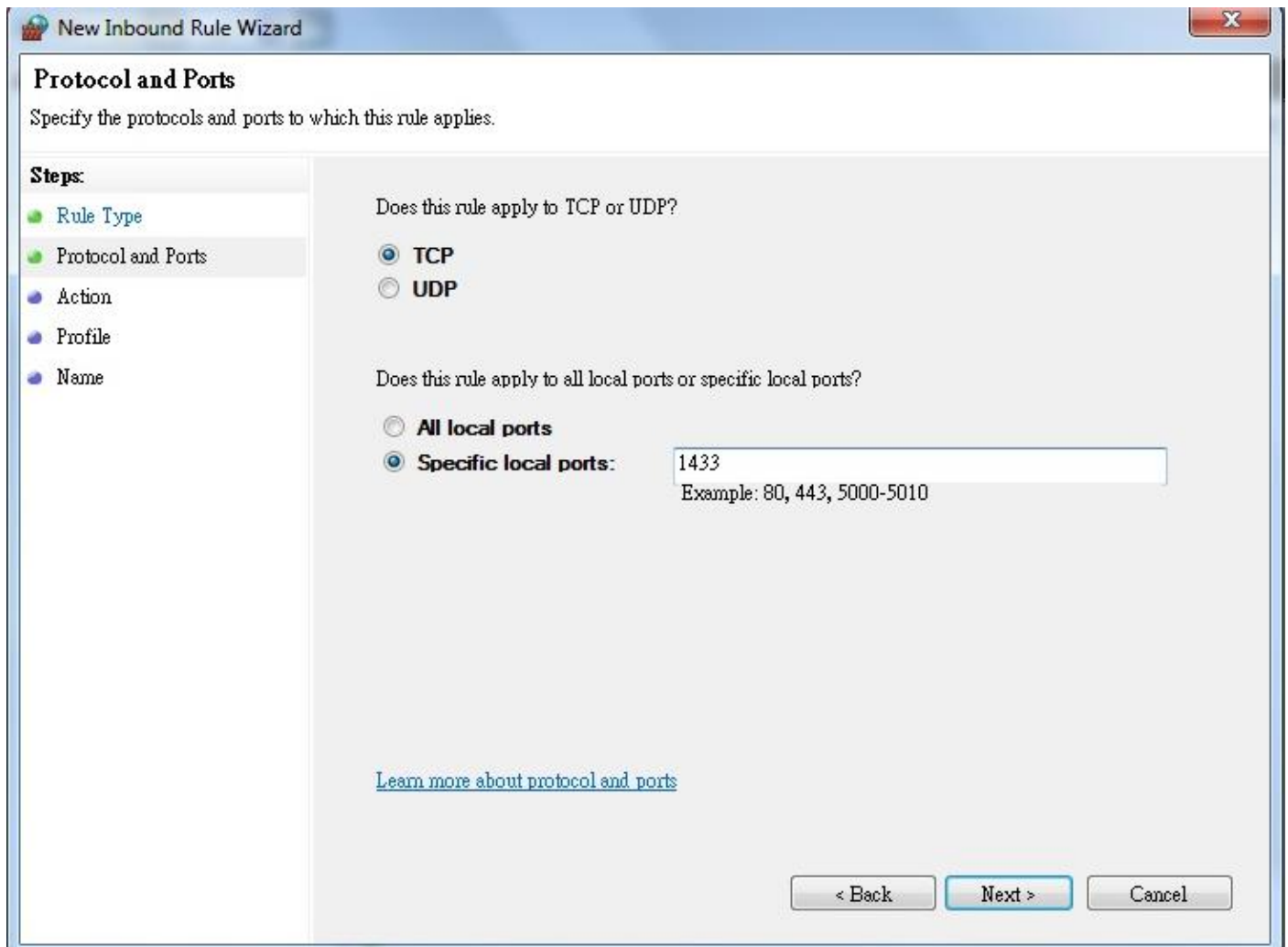
Step 4: Open Input Rules Wizard

Step 5: Rule type selection port (O)



Step 6: Communication Protocol and Port, select "TCP."

Step 7: Specify local port (S): Input "1433."



The image shows a Windows-style dialog box titled "New Inbound Rule Wizard". The "Protocol and Ports" step is active, indicated by a green dot in the "Steps" list on the left. The main area contains two questions with radio button options. The first question, "Does this rule apply to TCP or UDP?", has "TCP" selected. The second question, "Does this rule apply to all local ports or specific local ports?", has "Specific local ports:" selected, with a text box containing "1433" and an example "80, 443, 5000-5010" below it. A link "Learn more about protocol and ports" is at the bottom left. Navigation buttons "< Back", "Next >", and "Cancel" are at the bottom right.

**New Inbound Rule Wizard**

**Protocol and Ports**

Specify the protocols and ports to which this rule applies.

**Steps:**

- Rule Type
- Protocol and Ports**
- Action
- Profile
- Name

Does this rule apply to TCP or UDP?

☒ **TCP**

☐ **UDP**

Does this rule apply to all local ports or specific local ports?

☐ **All local ports**

☒ **Specific local ports:**

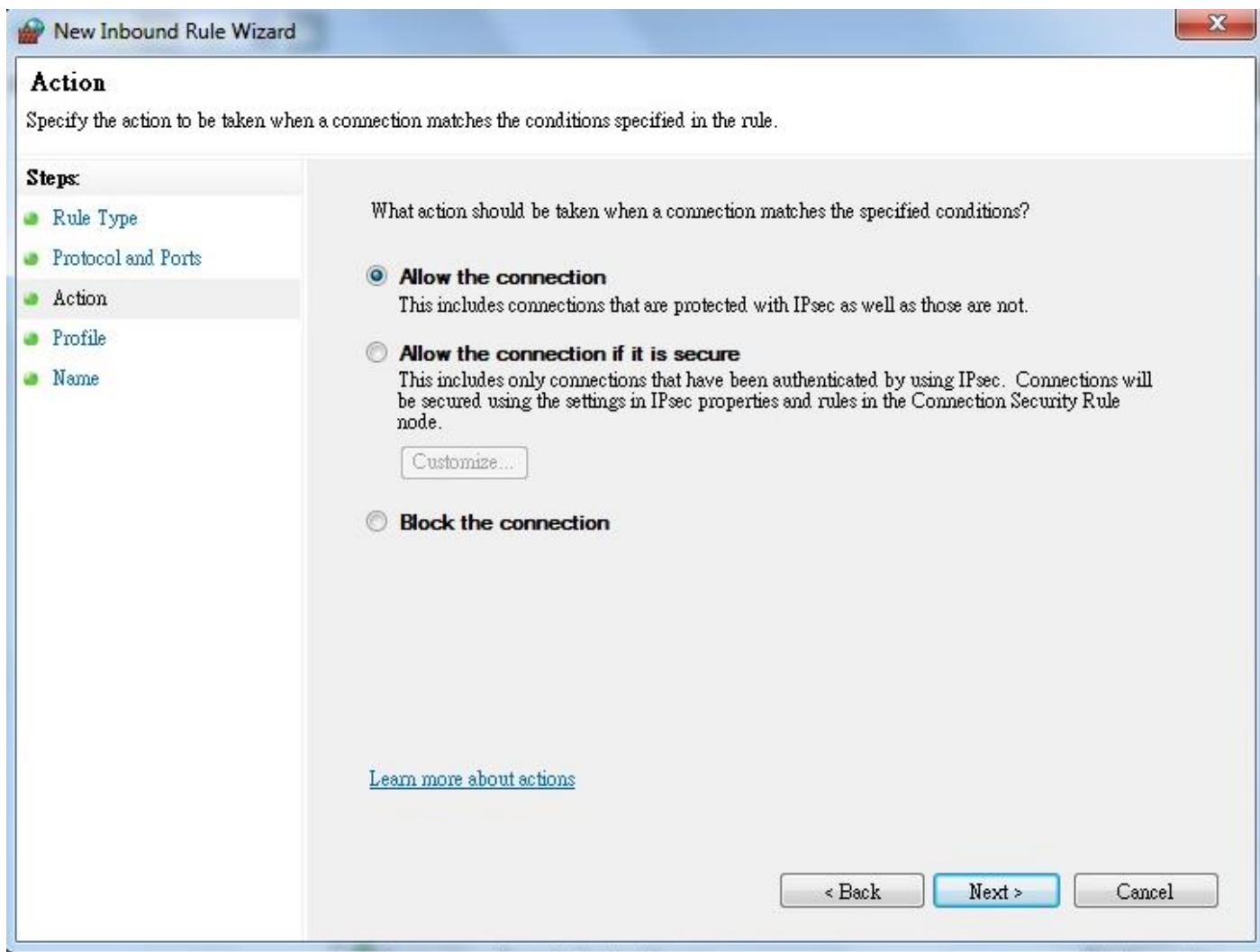
Example: 80, 443, 5000-5010

[Learn more about protocol and ports](#)

< Back   Next >   Cancel

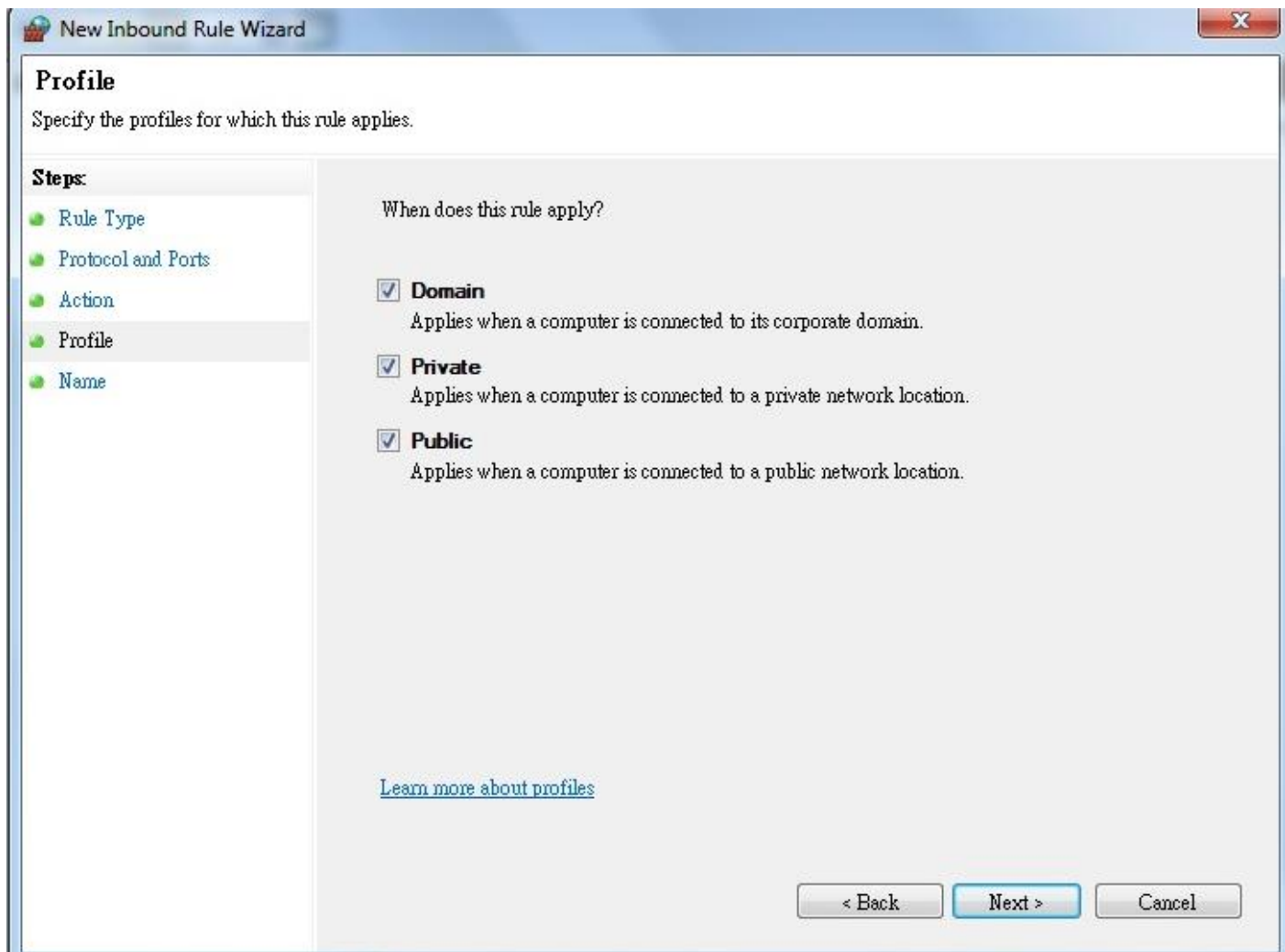
Step 8: Click on "Next (N)>"

Step 9: Execute action, select "Connection Allowed (A)"



Step 10: Click on "Next (N)>"

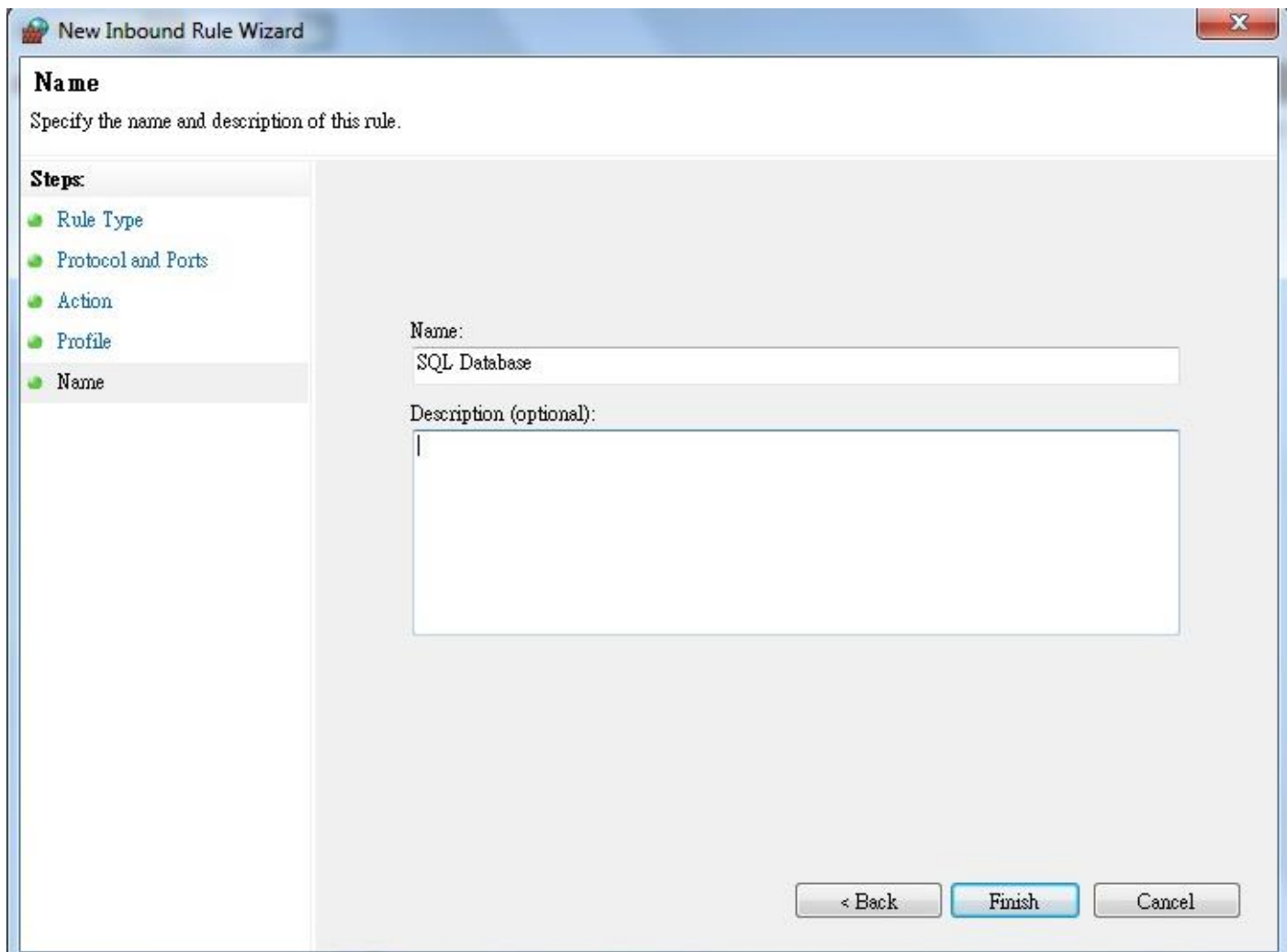
Step 11: When to apply such rule? Confirm that all is selected.



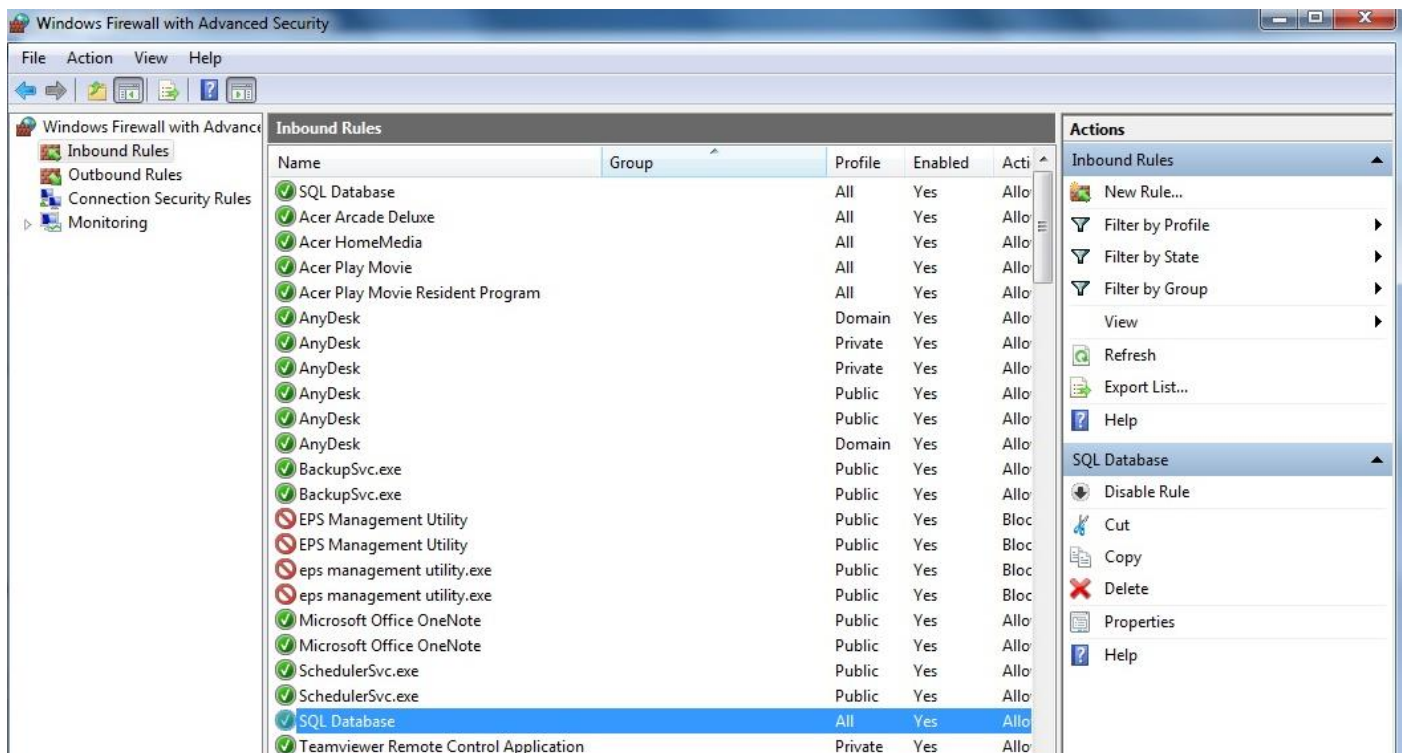
Step 12: Click on “Next (N)>”

Step 13: Input the name of this New Rule

Step 14: Click on “Finish (F)” to end the setting.



Step 15: At this time, only the Windows Firewall with Advanced Security is able to see the newly added input rule.



Step 16: Click to view content in order to ensure that the input information is correct without errors.






# Appendix C: Unable to Login to Management Software

Method 1. Check whether or not the account password is correct?

Method 2. Please check whether or not SQL is activated

Please find the file of “SQL Server Configuration Manager,” and confirm the following content: If the status of SQL Server (EPS) is stopped, then right click on the mouse to select “Start.”

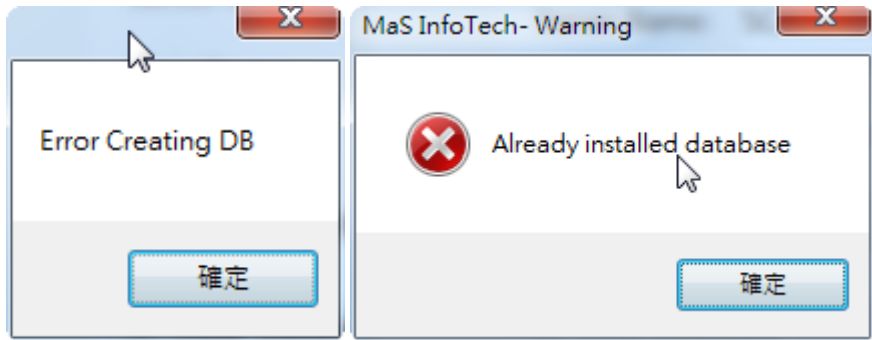
Name	State	Start Mode	Log On As	Process ID
 SQL Server (EPS)	Running	Automatic	NT AUTHORITY\N...	2872
 SQL Server Agent (EPS)	Stopped	Other (Boot, Syste...	NT AUTHORITY\N...	0
 SQL Server Browser	Stopped	Other (Boot, Syste...	NT AUTHORITY\L...	0

Method 3. Contact System Administrator for help!



# Appendix D: SQL Database Cannot Be Created.

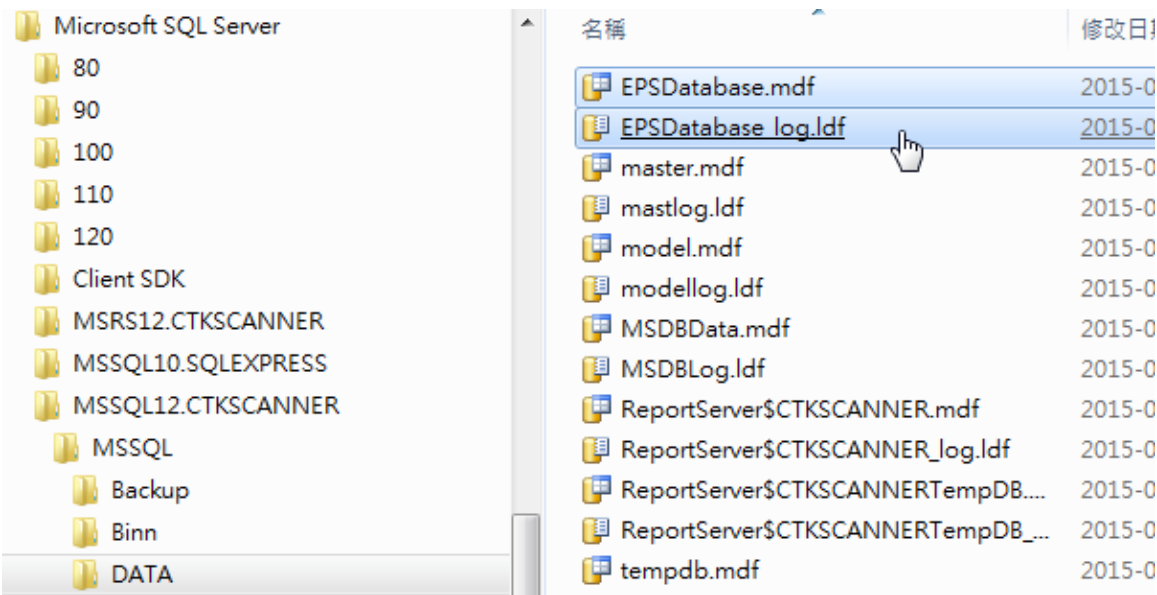
Situation 1. Cannot create database.



Situation 2. Database has been created in the system, but cannot enter the database.

Method 1. Check whether or not there is any old database not yet deleted?

Step 1. Determine whether or not there are two files of “EPSTDatabase.mdf” and “EPSTDatabase\_log.ldf” in the file folder of C:\Program Files\Microsoft SQL Server\MSSQL12.CTKSCANNER\MSSQL\DATA.



Step 2. Delete the two files of “EPSTDatabase.mdf” and “EPSTDatabase\_log.ldf.”

Hint: If the management software needs to be re-installed, but the old database is to be preserved at the same time, then please copy these two files to another file folder, and after the new database is complete, move these two files back to their original path.

## Management Software Initialization and User Account Setting

After the installation of the software and before the first use, please use the Administrator Account for login to the management software.

Step 1: Check to select the box in front of “Administrator” and input password.

Step 2: The administrator default password is “eps.”

**Hint:** To set up the administrator account and password, please refer to [Appendix F](#) of this manual: Setting of Server Account and Password.

Step 3: Click on “Log In” to log into the system.

Step 4: During the first time of login, it displays “Not found the database, we will create a new one.”

Step 5: Click on “OK.”

Step 6: If there is no errors, the system will then create a new database

Step 7: Successfully enter the management software.

Step 8: Only when the Administrator Account is used for login, the function of “Admin.” on top of the system is then enabled. The Administrator Account can only be logged in from the host machine end.

Step 9: Add New User Account

Step 10: After a successful creation of user, the user end computer with the installation completion can then use the “User Account” and “password” created to log into the system.