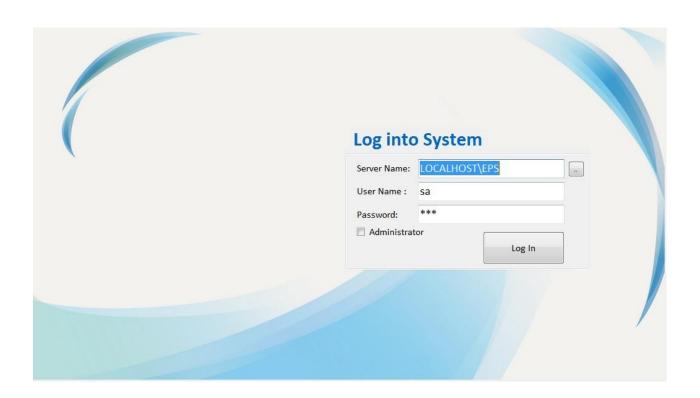
## **Network Management System**



## **Software Operating Manual**

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	7.1 7.2 7.3 7.4 7.5 7.6	Setting Admin	4 4 5 5 5 6			
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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.

Connect using:		
Marvell Yukor	n 88E8056 PCI-E Gigabit	Ethernet Controller
		Configure
This connection use	s the following items:	
Gos Packe	et Scheduler	
	nter Sharing for Microsoft	Networks
	Prot WLAN Utility Protoci	
	atocol Version 6 (TCP/IP)	
🗹 🔺 İrtemet Pro	atocol Version 4 (TCP/IP)	(4)
and the second se	Topology Discovery Map	
M - Link-Layer	Topology Discovery Resp	ponder *
•		
Instal.	Uninatal	Properties
10.00000001111		<u> </u>
Description	trol Protocol/Internet Prot	tocol. The default
Description Transmission Con wide area network	trol Protocol/Internet Prot k protocol that provides c erconnected networks.	

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.

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X							
General								
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.								
Obtain an IP address automatically								
• Use the following IP address:								
IP address:	192 . 168 . 10 . 20							
Subnet mask:	255.255.255.0							
Default gateway:								
Obtain DNS server address auton	natically							
• Use the following DNS server add	resses:							
Preferred DNS server:								
Alternate DNS server:	• • •							
Validate settings upon exit	Advanced							
	OK Cancel							

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.

Log into System
Server Name: LOCALHOST\EPS -
User Name : Sa
Password: ***
Administrator

#### **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 <u>Appendix F</u> 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

ECS Tree Setting  Panel Setting  Rack View System Tree
Company
Room
i⊒ <b>≣</b> Rack
192.168.1.100.Network
<b>Ξ</b> 192.168.1.100.02.Cat6ε
۲
Add Delete Expand Collaps

• Click on "Add"

• Select Add Scanner Equipment

1) ECS Inform	nation 🛛 📝 Add S	canner Device				Panel Size:	1
IP:	192.168.1.100	Connect	1	Гуре:			
Subnet Ma	sk:	Gateway:	Even	nt Trap IP :	Advance		
Name:	New						
2) Rack	Rack		<ul> <li>Name:</li> </ul>	Rack			
3) Room	Room		<ul> <li>Name:</li> </ul>	Room			
1) Floor	Floor		<ul> <li>Name:</li> </ul>	Floor			
5) Location	Location		<ul> <li>Name:</li> </ul>	Location			
5) Company	Company		<ul> <li>Name:</li> </ul>	Company			

**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

ESP Device Edit					×
(1) ESP Inform	nation				
IP:	192.168.1.100	Connect	Ту	/pe: EPS-24ports	
Subnet Mas	k:	Gateway:	Event	: Trap IP :	Advance
Name:	New				
(2) Rack	New	•	Name:	Rack	
(3) Row	New	-	Name:	Row	
(4) Room	New	-	Name:	Room	
(5) Location	New	•	Name:	Location	
(6) Company	New	•	Name:	Company	
				ОК	Cancel

#### 4.1.2 **Setting of Scanner Parameters**

(1) ESP Inform	nation						
IP:	192.168.1.100	Connect		Туре	EPS-24ports		
Subnet Mas	k:	Gateway:	I	Event Tra	ap IP :		Advance
Name:	New						Ь
(2) Rack	New		▼ Na	ame: R	ack		
(3) Row	New		▼ Na	ame: R	ow		
(4) Room	New		▼ Na	ame: R	oom		
(5) Location	New		▼ Na	ame: Lo	ocation		
(6) Company	New		▼ Na	ame: C	ompany		
						ОК	Cance

- 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.

IP Address:	192.168.5	50.168	192.1	68.50.16	8	
Subnet Mask:	255.255.2	255.0	255.2	55.255.0		
Gateway:	192.168.5	50.1	192.1	.68.50.1		
MAC:	12-FF-56-78-9A-BC					
Type:						
HW Version:	v1.01	FW	Versio	n: v1.:	10	
Event Network Se Event Trap IP :	Ū	1.111	192.1	.68.1.111		
Reminder Interv	al :	Day 00	•	Hour	, (	Minute

#### 4.1.3 Add Other Equipment

• Click on Add on the Tree Map

ECS Tree Setting  Panel Setting  Rack View System Tree
Company Location Floor Rack 192.168.1.100.Network 192.168.1.100.01.Fiber
■ 192.168.1.100.02.Cat6ε
Add Delete Expand Collaps

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

ECS Device Edit				
(1) ECS Inform	nation 🔲 Add Scanner Device			Panel Size: 1
ID:		Front End D	evice Type:	
OPID201812	26111810	110 Rack Mo	unt Wiring Blocks Patch Panel (100 Pair) 🔹	
Name:	New			
(2) Rack	Rack	<ul> <li>Name:</li> </ul>	Rack	
(3) Room	Room	- Name:	Room	
(4) Floor	Floor	<ul> <li>Name:</li> </ul>	Floor	
(5) Location	Location	<ul> <li>Name:</li> </ul>	Location	
(6) Company	Company	- Name:	Company	
Device positio	on in Rack: 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.

<ol> <li>ECS Inform ID:</li> </ol>		Front End D	Device Type:	
OPID201812	26111810			
			ount Wiring Blocks Patch Panel (100 Pair) 👻	
Name:	New			
(2) Rack	Rack	<ul> <li>Name:</li> </ul>	Rack	
(3) Room	Room	<ul> <li>Name:</li> </ul>	Room	
(4) Floor	Floor	<ul> <li>Name:</li> </ul>	Floor	
5) Location	Location	<ul> <li>Name:</li> </ul>	Location	
(6) Company	Company	- Name:	Company	

#### 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.

ECS Tree Setting  Panel Setting  Rack View		ECS Pa	nel Info	rmation	I
System Tree		90	Fune Ann	:	
Company		ID: Panel		ompany	\Location\Floo
		Slot	Status	Ports	Panel
E Room		1	0	24	Smart_Patch_
Rack		2	0	24	Smart_Patch_
192.168.1.100.Net		3	$\bigcirc$	24	Smart_Patch_
192.168.1.100.01.F		dit	e		Smart_Patch_
192.168.1.100.02.0			rs Setting		Smart_Patch_
	Pr	operties	~		Smart_Patch
		7	0	24	Smart_Patch_
		8	0	24	Smart_Patch_
		9	0	24	Smart_Patch_
• III • •		10	0	24	Smart_Patch_
Add Delete Expand Collaps		11	0	24	Smart_Patch_
		12	$\cap$	24	Smart Datch

### 4.4 View Equipment Information.

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

ECS Tree Setting  Panel Setting  Rack View		ECS Pa	anel Info	ormation	1
System Tree		-) 90		ian i	
Company		ID: Pane		Company	\Location\Floo
Floor		Slot	Statu	s Ports	Panel
		1	0	24	Smart_Patch_
Rack		2	0	24	Smart_Patch_
192.168.1.100.Netv		3	$\bigcirc$	24	Smart_Patch
192.168.1.100.01.F		dit			Smart_Patch_
<b>192.168.1.100.02.</b>			ers Settir	יg	Smart_Patch_
152.100.1.100.02.0	Pr	operties			Smart_Patch
		7	Ō	24	Smart_Patch_
		8	0	24	Smart_Patch_
		9	0	24	Smart_Patch
۰ III ا		10	0	24	Smart_Patch
Add Delete Expand Collaps		11	0	24	Smart_Patch_
		12	$\cap$	24	Smart Datch

• View the setting values of the equipment.

ECS Device Properties	itter itterner 💌
Modifying Network Setting	gs
IP Address:	192.168.1.100
Subnet Mask:	255.255.207.0
Gateway:	192.168.1.1
MAC:	00-3A-51-CD-82-E8
Туре:	
HW Version: v0.0	FW Version: v0.0
Event Network Settings	
Event Trap IP :	192.168.1.100
Get	Cancel

#### 4.5 Current Equipment Overview

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

Device \	/iewer			
192.16	3.1.100.Ne	twork Scar	ner 24Ways	.Rack.Roo

#### 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."

S Tree Nork Order: Device Name: Rack Device IP: Ru: Save Events Admin	Map	Language	Login Time: 2017/0 Account Type: Adm User Name: System Alert Mode: 3	inistrator	2:50 O Information	
PS Tree Setting    Rack Viev	EPS Pane	I Information				
System Tree		for a	Used: 3 Slo	ts, 0/72	Ports Status: L	inking. 04 👻
E- 🥑 Company	ID: Panel II	Company D: 192.168.5	Location\Room\Row\Rack\192 0.169\04	2.168.50.	169	
Boom	Slot	Status Ports	Panel	RU	Name	ID
in Row	1 (	24	Smart_Patch_Panel_C5e_2	1	P01	Company\Location\Room\Row'
a Rack	2	24	Smart_Patch_Panel_C5e_2	2	P02	Company\Location\Room\Row'
192.168.50.169.New	3	24	N4225_122_01	0	P03	192.168.50.169\03
192.168.50.169.01.P01	4		N4225_122_01		P04	192.168.50.169\04
<b>192.168.50.169.02.P02</b>	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
Add Delete Expand Collaps Total Devices: 0	11 (	24	N4225_122_01	0	P11	192.168.50.169\11
	12	24	N4225_122_01	0	P12	192.168.50.169\12
Device Viewer	13	24	N4225_122_01	0	P13	192.168.50.169\13
192.168.50.169.New.Rack.Row.Room.Location.Company	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

- 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.

Company	(1) Panel Information Rack Name: Company\Location\Floor\Room\Rack
i - Location i - Floor i - Room	Slot:     01     RU:     3     Panel Name:       ID:     Company\Location\Floor\Room\Rack\192.168.1.100\01
Rack	Panel Model:       Smart_Patch_Panel_C5e_24Ports       Smart_Patch_Panel_C624Ports         Smart_Patch_Panel_C6A_24Ports       Smart_Patch_Panel_C6A_24Ports         Smart_Patch_Panel_Fiber_24Ports       Smart_Patch_Panel_Fiber_24Ports
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 <b>10 10 10 10 10 10 10 10</b>

### 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.

PS Tree Nork Orders 192.168.50.169 4	<u> </u>		TA nguage	Login Time: 2017/06 Account Type: Admi User Name: System Alert Mode: 3			
PS Tree Setting    Panel Setting   Rack Vie	w EPS Pa	anel Info	ormation				
System Tree	- 1 as		z:	Used: 3 Slot	ts, 0/72	Ports Status: I	Linking. 04
B 🥑 Company ≟- 🖺 Location	ID: Pane			Location\Room\Row\Rack\192 0.169\04	.168.50	0.169	
Boom	Slot	Statu	s Ports	Panel	RU	Name	ID
e Row	1	0	24	Smart_Patch_Panel_C5e_2	1	P01	Company\Location\Room\Row
- Rack	2	0	24	Smart_Patch_Panel_C5e_2	2	P02	Company\Location\Room\Row
192.168.50.169.New	3	0	24	N4225_122_01	0	P03	192.168.50.169\03
192.168.50.169.01.P01	4	$\bigcirc$	24	N4225_122_01	0	P04	192.168.50.169\04
<b>192.168.50.169.02.P02</b>	5	$\bigcirc$	24	N4225_122_01	0	P05	192.168.50.169\05
	6	0	24	N4225_122_01	0	P06	192.168.50.169\06
	7	0	24	N4225_122_01	0	P07	192.168.50.169\07
	8	0	24	N4225_122_01	0	P08	192.168.50.169\08
	9	0	24	N4225_122_01	0	P09	192.168.50.169\09
	10	0	24	N4225_122_01	0	P10	192.168.50.169\10
Add Delete Expand Collaps Total Devices: 0	11	0	24	N4225_122_01	0	P11	192.168.50.169\11
	12	0	24	N4225_122_01	0	P12	192.168.50.169\12
Device Viewer	13	0	24	N4225_122_01	0	P13	192.168.50.169\13
192.168.50.169.New.Rack.Row.Room.Location.Company	14	0	24		0	P14	192.168.50.169\14
	15	0	24	N4225_122_01	0	P15	192.168.50.169\15
	16	0	24	N4225_122_01	0	P16	192.168.50.169\16
	17	0	24	N4225_122_01	0	P17	192.168.50.169\17
	18	0	24	N4225_122_01	0	P18	192.168.50.169\18
	19	0	24	N4225_122_01	0	P19	192.168.50.169\19
	20	0	24	N4225_122_01	0	P20	192.168.50.169\20
	21	()	24	N4225 122 01	0	P21	192.168.50.169\21

## 4.8 Cabinet Configuration

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

ECS Tree Setting  Panel Setting  Rack View System Tree
🖃 🗝 🥥 Company
Location
Floor
- Room
Re Edit
Add=>(1) ECS Information
Delete
192.168.1.100.02.Cat6a
Add Delete Expand Collaps

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

Rack Setting	1.10		
Rack Path:	Company\Location	\Floor\Room\Rack	
Rack Name:	Rack		
Rack Unit (M	1ax.): 12 🗸		
Sort Mode :		Max.	
Sort M Sort 1		1	OK Cancel

### 4.9 Display cabinet configuration

Click on "Rack View" to display the actual configuration screen of the Rack

EPS Tree Vork Orders Vorke Name: Rack New Rack Device IP: RU: Save Events Administration of the state of the			A nguage	Login Time: 2017/06 Account Type: Admi User Name: System Alert Mode: 3				
EPS Tree Setting    Panel Setting   Panel Setting   Panel Setting   Panel Information								
System Tree		1	<b>3</b> :	Used: 3 Slot	ts, 0/72	Ports Status: L	inking. 04	
E 🧭 Company	ID:	(	Company	Location\Room\Row\Rack\192	.168.50	0.169		
e Location	Pan	el ID: 1	92.168.5	0.169\04				
Room	Slot	Statu	s Ports	Panel	RU	Name	ID	
E- Row	1	0	24	Smart_Patch_Panel_C5e_2	1	P01	Company\Location\Room\Row	
Rack	2	0	24	Smart_Patch_Panel_C5e_2	2	P02	Company\Location\Room\Row	
192.168.50.169.New	3	0	24	N4225_122_01	0	P03	192.168.50.169\03	
192.168.50.169.01.P01	4			N4225_122_01				
192.168.50.169.02.P02	5	0	24	N4225_122_01	0	P05	192.168.50.169\05	
	6	0	24	N4225_122_01	0	P06	192.168.50.169\06	
	7	0	24	N4225_122_01	0	P07	192.168.50.169\07	
	8	0	24	N4225_122_01	0	P08	192.168.50.169\08	
	9	0	24	N4225_122_01	0	P09	192.168.50.169\09	
	10	0	24	N4225_122_01	0	P10	192.168.50.169\10	
Add Delete Expand Collaps Total Devices: 0	11	0	24	N4225_122_01	0	P11	192.168.50.169\11	
	12	0	24	N4225_122_01	0	P12	192.168.50.169\12	
Device Viewer	13	0	24	N4225_122_01	0	P13	192.168.50.169\13	
192.168.50.169.New.Rack.Row.Room.Location.Company	14	0	24	N4225_122_01	0	P14	192.168.50.169\14	
	15	0	24	N4225_122_01	0	P15	192.168.50.169\15	
	16	0	24	N4225_122_01	0	P16	192.168.50.169\16	
	17	0	24	N4225_122_01	0	P17	192.168.50.169\17	
	18	0	24	N4225_122_01	0	P18	192.168.50.169\18	
	19	0	24	N4225_122_01	0	P19	192.168.50.169\19	
	20	0	24	N4225_122_01	0	P20	192.168.50.169\20	
	21	$\bigcirc$	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.

Used:3, CompanyLLocation\Floor\Room\Rack Save Pic Hide Rack view Slot Quantity: 36 Slot Sort: High to Low Unit NO.: 5 2 • Setting Panel Type: Panel.Smart_Patch_Panel_C6A_24Ports Port: Expansion Port: Panel Size: 1 Edit Cat6a UTP Fiber LC Network Scanner 24Ways	Rack view	
Slot Quantity: 36 Slot Sort: High to Low Unit NO.: 5 2 • Setting Panel Type: Panel.Smart_Patch_Panel_C6A_24Ports Port: Expansion Port: Panel Size: 1 Edit Panel Name: Cat6a UTP ID: 192.168.1.100.02		
	25 24 23 22 21 20 19 18 18 17 16 15 14 13 12 11 10 9 8 8 7 6 5 4 7 6 5 4 7 6 5 4 7 6 5 4 7 6 5 4 7 6 5 4 7 6 5 4 7 7 6 5 4 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Slot Quantity: 36 Slot Sort: High to Low Unit NO.: 5 2  ✓ Setting Panel Type: Panel.Smart_Patch_Panel_C6A_24Ports Port: Expansion Port: Panel Size: 1 Edit Panel Name: Cat6a UTP

### 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.)

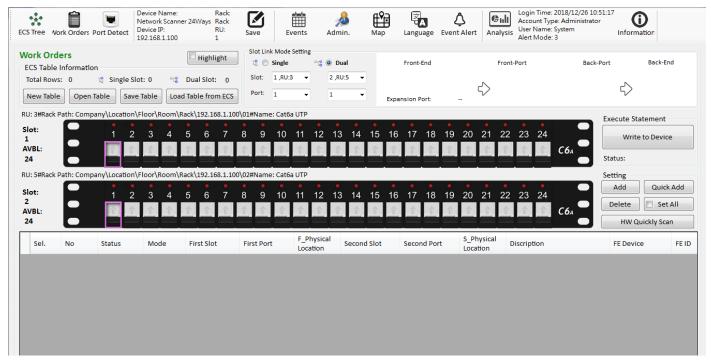
ECS Tree Setting O Panel Setting Rack View	Rack view	
System Tree	Used:3, Company\Location\Floor\Room\Rack	Save Pic Hide
System Tree Company Location Floor Rack 192.168.1.100.Network 192.168.1.100.02.Cat6 Network Collaps Device Viewer 192.168.1.100.Network Scanner 24Ways.Rack.Roo	25   A   Rack view     24   Slot Quantity: 36     23   Slot Sort: High to Low     21   A	2 • Setting A_24Ports

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.

Work Orders	Highlight
ECS Table Information	
Total Rows: 0 🕫 Single Slot: 0	ී Dual Slot: 0
New Table Open Table Save Table	Load Table from ECS

- 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.

Network N	/anagement System
4	Do you really want to clear the ""LinkTable""?
	是(Y) 否(N)

#### 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."

   Work Orders
   Highlight

   ECS Table Information
   Total Rows: 0
   Single Slot: 0
   Solution

   Total Rows: 0
   Single Slot: 0
   Load Table from ECS

   New Table
   Open Table
   Save Table
   Load Table from ECS
- Open search window to load existing worksheet (CSV file).

Organize 🔻 New fold	er			• •
Favorites	Pictures libra Includes: 2 locations	-	Arra	nge by: Folder 🔻
<ul> <li>Recent Places</li> <li>Libraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>Computer</li> <li>Acer (C:)</li> </ul>	Sample Pictures	192_168_1_101.cs v	192_168_50_169.c sv	345.csv
👝 DATA (D:) 👻 File n	ame:		✓ Files (csv)	•

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

🛕 Do you	really want to replace the o	urrent table?
	Yes	No

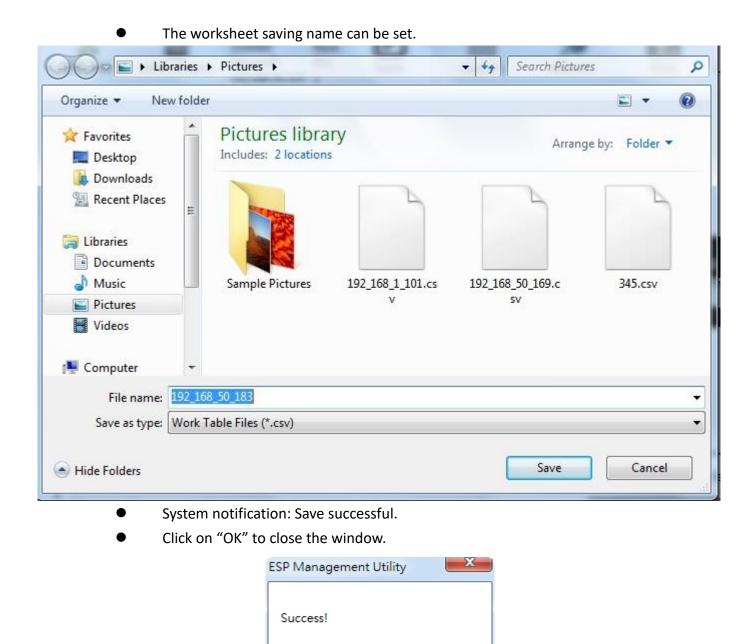
• Click on "Yes (Y)", to import existing worksheets.

#### 5.1.4 Batch Export/Save Worksheet

• Click on "Batch Export"

Work Orders	Highlight
ECS Table Information	
Total Rows: 0 🛛 🖧 Single Slot: 0	ංසු Dual Slot: 0
New Table Open Table Save Table	Load Table from ECS

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



#### 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."

Work Orders		Highlig	ht
ECS Table Information			
Total Rows: 0 🛛 🖧 Single Slot: 0	°T <mark>8</mark>	Dual Slot:	0
New Table Open Table Save Table	Load	d Table from	ECS

• System notification: Do you want to access "Hardware Setting" and "Worksheet" from equipment?

確定

5

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."

se

for setting.

Use "Distribution Frame Illustration" to perform the setting of distribution frame port.

Slot: 1 AVBL: 24		1	2								10											23	24	С6д
	٠		Clic	ck o	n "⁄	٩dd	,,	and	the	e sy	ster	n is	ab	e to	o ad	d a	pro	ject	t.					

• 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
	1	None	Single	1	1	RU: 3#Rack	х	x	None			
	2	None	Single	1	2	RU: 3#Rack	х	х	None			
	3	None	Single	1	3	RU: 3#Rack	х	х	None			
			Single			RU: 3#Rack						

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.

Slot Lin	k Mode Set	ting		
t <mark>e</mark> 🔘	Single	0	🖁 🎯 Dual	
Slot:	1 ,RU:3	•	2 ,RU:5	•
Port:	1	•	1	•

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.

RU: 3#Rack Path: Compa	any\Loca	tion\F	loor\F	loom\	Rack\	192.16	58.1.10	0\01#	Name	: Cat6	a UTP														
Slot:	1	2	3	4	<b>5</b>	6	7	<b>8</b>	9	<b>1</b> 0	• 11	<b>•</b> 12	<b>•</b> 13	<b>1</b> 4	<b>1</b> 5	<b>1</b> 6	• 17	• 18	<b>1</b> 9	<b>2</b> 0	<b>2</b> 1	• 22	• 23	<b>•</b> 24	
AVBL: 19								$\uparrow$	$\uparrow$			$\uparrow$	$\uparrow$	$\uparrow$	$\uparrow$	$\uparrow$	$\hat{\mathbb{T}}$	$\uparrow$	$\uparrow$	$\uparrow$	î.	$\hat{\mathbf{r}}$	î		С6д
RU: 5#Rack Path: Compa	ny\Loca	tion\F	loor\F	loom\	Rack\	192.16	8.1.10	0\02#	Name	: Cat6	a UTP	_	_	_		_	_	_	_	_		-			
Slot: 2 AVBL: 23	1	2	• 3 ↑	• 4	• 5 ↑	<b>6</b> ↑	• 7 ↑	8	• 9 ↑	• 10	• 11	• 12	• 13	• 14	• 15	• 16	• 17	• 18	• 19	• 20 ↑	21	• 22	• 23	• 24	С6л

• 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.

Slot Lin	k Mode Se	tting		
t <mark>8</mark> 🔘	Single	- °t	3 🔍 Dual	
Slot:	1 ,RU:3	•	2 ,RU:5	•
Port:	1	•	1	•

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

RU: 3#Rac	k Path: Comp	any\Loca	tion\F	loor\F	Room	Rack	192.16	8.1.10	00\01#	Name	e: Cat6	a UTP															
Slot: 1 AVBL:		1	2	3	4	5	6	• 7 ↑	• 8 ↑	• 9 ↑	• 10 ↑	• 11	• 12	∎ 13	• 14	• 15 1	∎ 16	• 17	• 18 ↑	• 19 ↑	• 20 ↑	• 21	• 22	• 23 ↑	• 24	C6A	
	ck Path: Comp	any\Loca	tion\F	loor\f	Room	Rack	192.16	8.1.10	00\02#	Name	e: Cat6	a UTP	•	•	•	•	•	•	•	•	•	•	•	•	•		
Slot: 2 AVBL: 23	•	1	2	3	4	5 1	6	7 1	8	9	10	11 1	12	13	14	15 1	16	17	18	19 1	20	21 ^	22	23	24	С6д	
			Cli	ck c	on "	Add	l" to	ad	ld th	nis s	set c	of p	air d	onto	o th	e pa	airir	ng ta	able	e.							

• 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.

RU: 3#Rack P	ath: Compar	iy\Loca	tion\F	loor\F	Room\	Rack	192.16	8.1.10	0\01#	Name	: Cat6	a UTP														
Slot: 1 AVBL: 19		1	2	3	4	5	6	7 1	8	9	10	11	12	13	14 1	15 1	16	17	18	19	20	21	22 ^	23	24	С <i>6</i> А
RU: 5#Rack P	ath: Compan	iy\Loca	tion\F	loor\F	Room\	Rack	192.16	8.1.10	0\02#	Name	: Cat6	a UTP														
Slot: 2 AVBL: 23		• 1	2	• 3 ↑	4	• 5 ♠	6	• 7 ↑	8	• 9	• 10	• 11	• 12	13 1	• 14	• 15 ▲	• 16 ♠	17 1	18	19 1	• 20 ↑	21 1	22 1	23	24	C6A

- 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.

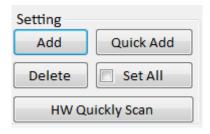


### 5.3 Quick Creation of Worksheet

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.

STree V	ork Orders	Port Detect	Device Name: Network Scanr Device IP: 192.168.1.100	Rack: er 24Ways Rack RU: 1	Save E	vents Adn	ain. Map	Language Even	t Alert Analysis Analysis Analysis Analysis	
<b>ork Orc</b> CS Table Total Row New Tabl	Informations: 24	🙁 Single Slo		Highlight Dual Slot: 20 d Table from ECS	Slot Link Mode C Single Slot: 1,RU: Port:	°18 🖲 D		Front-End	Front-Port	Back-Port Back-End
J: 3#Rack	Path: Comp	Dany\Location\	Floor\Room\	Rack\192.168.1.10	□ I0\01#Name: Cat6	a UTP				Execute Statement
lot: L VBL: )		1 2	3 4	5 6 7	8 9 10	11 12 1:			20 21 22 23 24	C6A Status:
J: 5#Rack	Path: Comp	Dany\Location\	Floor\Room\	Rack\192.168.1.10	0\02#Name: Cat6		inagement Syst 💻			Setting
lot: 2 VBL: 4		12	3 4	5 6 7	8 9 10	1	Success!	18 19	20 21 22 23 24	C6A Add Quick Add Delete Set All HW Quickly Scan
Sel.	No	Status	Mode	First Slot	First Port		確定	nd Port	S_Physical Location	FE Device FE
	16	None	Dual	1	16	RU: 3#Rack	2	12	RU: 5#Rack	
	17	None	Dual	1	17	RU: 3#Rack	2	13	RU: 5#Rack	
	18	None	Dual	1	18	RU: 3#Rack	2	14	RU: 5#Rack	
	19	None	Dual	1	19	RU: 3#Rack	2	15	RU: 5#Rack	
	20	None	Dual	1	20	RU: 3#Rack	2	16	RU: 5#Rack	
	21	None	Dual	1	21	RU: 3#Rack	2	17	RU: 5#Rack	
	22	None	Dual	1	22	RU: 3#Rack	2	18	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

Setting	
Add	Quick Add
Delete	🔲 Set All
HW Q	uickly Scan

### 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

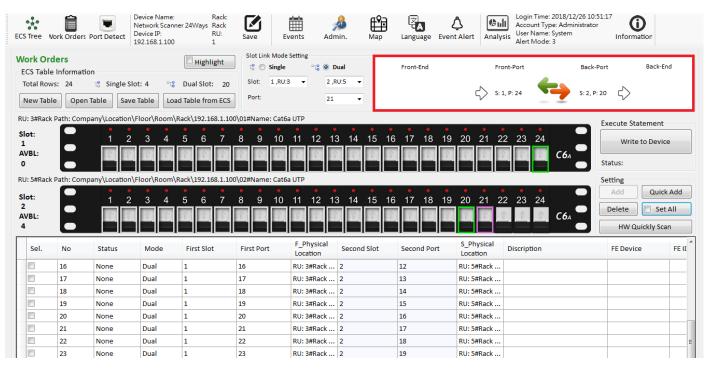
If the sheet content is confirmed, then the sheet can be saved into the equipment. Execution steps are as follows:

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

the worksheet.

Execute Sta	tement
Write	to Device
Status:	
Setting	
Add	Quick Add
Delete	🔲 Set All
HW Qu	ickly Scan

### 5.7 Setting of Front/Back End Link Functions



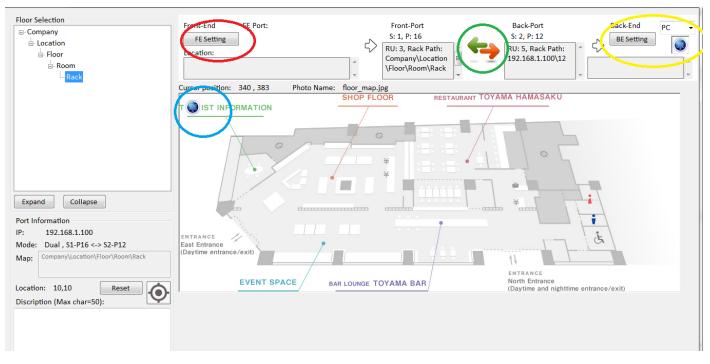
Pic1-4

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.

Floor Selection  Company  Location  Floor  Room  Room  Rack	Front-End FE Port: FE Setting Location:	۸ ۲	Front-Port S: 1, P: 16 RU: 3, Rack Path: Company\Location \Floor\Room\Rack	Back-Port S: 2, P: 12 RU: 5, Rack Path: 192.168.1.100\12	Back-End PC • BE Setting
	Cursor position: 0,0	Photo Name: The nor	de has not be assigned a map file.		
Expand Collapse Port Information IP: 192.168.1.100					
Mode: Dual , \$1-P16 <-> \$2-P12 Map: Location: Discription (Max char=50):					

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)



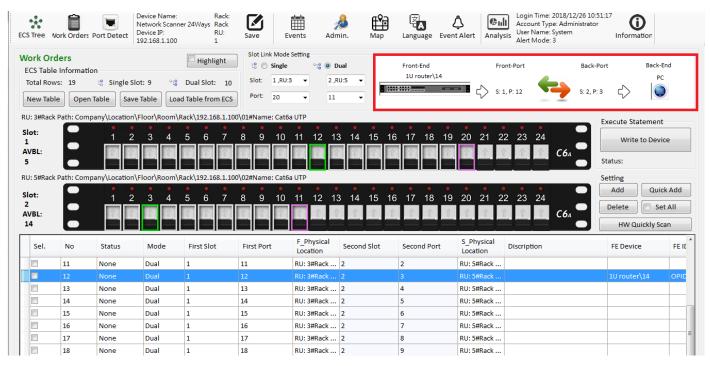
- Pic1-6
- A. Green circle: Click on this area to change between the corresponding front and back port.
- B. Yellow circle: The terminal equipment can be selected, such as PC, NB, FAX, etc.
- C. Blue circle: This picture changes according to the different terminal equipment selected and drag this picture to the appropriate location.
- D. Red circle: Select "FE Setting" to perform setting according to the different front-end equipment.

Select Front End Device System Tree	Part Server Ser			
Company Coation Floor Room Rack	Rack Name: RU: ID: Panel Name:	Rack Name 01		•
- ACK			<ul> <li>FE Port:</li> <li>01 </li> <li>Expansion Point</li> </ul>	Total: ort: Total:
			C	K Cancel

#### 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.

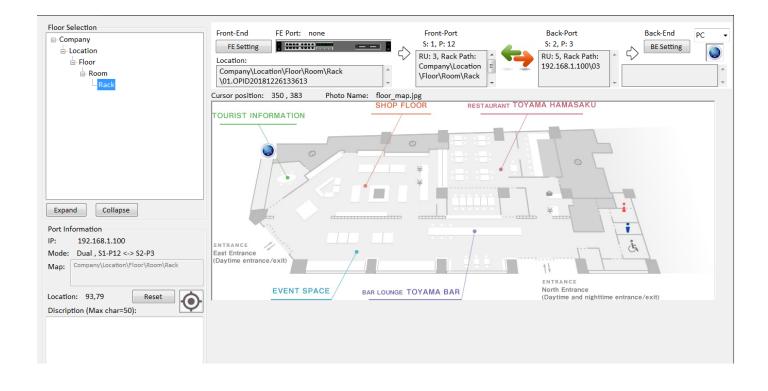


Hint: Please remember to save data; otherwise the data will not be saved into the database.

### 5.8 View Port Location

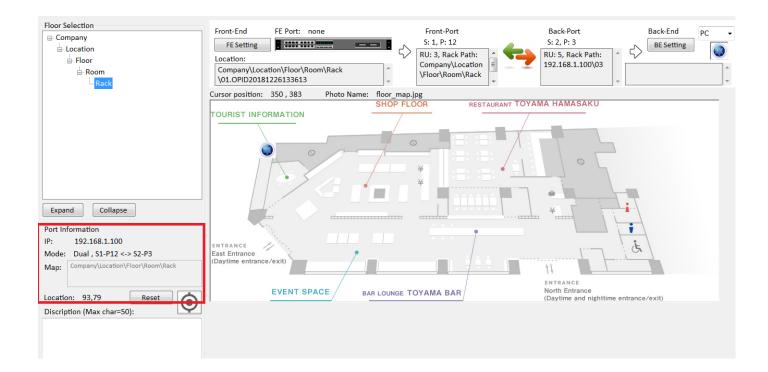
On the worksheet with the port location information already edited, if the port location is to be queried, the port configured can be selected, and left click the mouse twice to view the configuration location of the port on the layout map.

STree V	ork Orders	Port Detect	Device Name Network Scar Device IP: .92.168.1.100	ner 24Ways Rack RU:	Save Save	Events A	🦾 🛱		Acco	n Time: 2018/12/26 10: ount Type: Administrator Name: System Mode: 3		
<b>ork Orc</b> CS Table Total Row New Tabl	Informatio	🕲 Single Slo		Highlight Dual Slot: 10 ad Table from ECS	18 🔘 si	L,RU:3 ▼ 2	Dual ,RU:5 • 1 •	Front-End 1U router\14	Front-Port	Back-I S: 2, P:	P	PC .
J: 3#Rack lot: L VBL:	Path: Comp	any\Location\I	3 4	\Rack\192.168.1.10	• •	• • •	13 14 15		19 20 21 22 23	24 C6 <sub>A</sub>	Execute Statemen Write to Dev Status:	
J: 5#Rack lot: 2 VBL: 4	Path: Comp	any\Location\R	3 4	Rack\192.168.1.10	• •	Cat6a UTP	13 14 15	16 17 18	19 20 21 22 23	24 C6 <sub>A</sub>		ick Add et All Scan
Sel.	No	Status	Mode	First Slot	First Port	F_Physical Location	Second Slot	Second Port	S_Physical Location Discrip	tion	FE Device	FE
	11	None	Dual	1	11	RU: 3#Rack .	2	2	RU: 5#Rack			
	12	None	Dual	1	12	RU: 3#Rack .		3	RU: 5#Rack		1U router\14	OPI
	13	None	Dual	1	13	RU: 3#Rack .		4	RU: 5#Rack			
	14	None	Dual	1	14	RU: 3#Rack .		5	RU: 5#Rack			
	15	None	Dual	1	15	RU: 3#Rack .		6	RU: 5#Rack			
	16	None	Dual	1	16	RU: 3#Rack .		7	RU: 5#Rack			
	17	None	Dual	1	17	RU: 3#Rack .		8	RU: 5#Rack		1	



#### 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."

Ana	lysis					
al:	93		Reset 💟 U	p to the End 🛛 🗷 Enable Events	Accept Refresh	De
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	

## 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.

Status	Account Type	Account Name	E-Mail	Remark	Alert Setting	Server Email	SMTP Server	SMTP Port	
		Emaile		Notifications Er	mail Server				Expo
User Acco	unt Enable	Email:					Email	Verification	
User Acco		Email:	ł:	*Server Email:				Verification	Datab
ccount Name	unt Enable Manager	<ul> <li>Password</li> </ul>	d: ail Alerts	*Server Email: Password:			Modi	ify Account	Expo Datab Impo Datab
User Acco ccount Type: ccount Name	unt Enable Manager	<ul> <li>Password</li> </ul>		*Server Email: Password:			Modi	ify Account	Da
User Acco	unt Enable Manager	<ul> <li>Password</li> </ul>	ail Alerts	*Server Email:			Modi		Datal

### 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 Enable	Email:	Notifications Email Server	Email Verification	Export Database
Account Type: Manager	<b>•</b>	*Server Email:	Enanvernication	Database
Account Name: Name	Password:	Password:	Modify Account	Import Database
Remark	Send Email Alerts	*SMTP Server:	Add New Account	Database
Worker01	Alarms Hardware Restart	*SMTP Port:	Delete Account	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				
User Account Enable	Email:	Notifications Email Server	Email Verification	Export Database
Account Type: Manager	Password:	*Server Email:		
Account Name: Technician		Password:	Modify Account	Import Database
Remark	Send Email Alerts	*SMTP Server:	Add New Account	
Worker01	Alarms Hardware Restart	*SMTP Port:	Delete Account	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				
🔲 User Account Enable	Email:	Notifications Email Server	Email Verification	Export Database
Account Type: Manager	Password:	*Server Email:		Dutabase
Manager	Password.	Password:	Modify Account	Import Database
Account Name: Technician Remark	Send Email Alerts	*SMTP Server:	Add New Account	Database
Worker01	Alarms Hardware Restart			To change
		*SMTP Port:	Delete Account	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				
User Account Enable	Email:	Notifications Email Server	Email Verification	Export Database
Account Type: Manager	Password:	*Server Email:		
Account Name: Technisian		Password:	Modify Account	Import Database
Remark	Send Email Alerts	*SMTP Server:	Add New Account	
Worker01	Alarms Hardware Restart	*SMTP Port:	Delete Account	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		Notifications Email Server		Europe
User Account Enable	Email:	Notifications Email Server	Email Verification	Export Database
Account Type: Manager	Password:	*Server Email:		
Manager	P855W010.	Password:	Modify Account	Import Database
Account Name: Technician Remark	Send Email Alerts	*SMTP Server:	Add New Account	Database
Worker01	Alarms Hardware Restart			To change
		*SMTP Port:	Delete Account	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	
	Email Verification
*Server Email:	
Password:	Modify Account
*SMTP Server:	Add New Account
*SMTP Port:	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:		Email Verification
		Modify Account
Password:		
*SMTP Server:		Add New Account
*SMTP Port:		Delete Account

### 7.8 Delete User

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

Notifications Email S	Server	Email Verification
*Server Email:		
Password:		Modify Account
*SMTP Server:		Add New Account
*SMTP Port:		Delete Account

# **8 Fixed Asset Management Function**

8.1 Click on "Analysis" on the Menu

a Analysis omation				( distant				Rows: 3	
lode Setting									
Rack Mode Scanner - O Group Mode	Path: Compa	any						Analysis	Save
Gempany	No	Date ID	Туре	Status	Starflotal	SlotUsed	SlotUnused	PortTotal	PortUse
🖬 🛃 Location	2	2017/11/29_ 192.3/	18.1.1_ EP5.24port	New	New	New	New	New	New
🕼 😸 Floor	2	2017/12/17_ 192.5	6.1.1_ (PS.24port	New	New	New	New	New	New
0 Room	1	2017/12/01 192.1	18.1.1. UPS.24port	New	New	New	New	New	Neur
192.168.1.104.New 192.168.1.121.New Room1 Rack1									
- 192.168.1.121.New Boom1									

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	lict
LUCIIC	2101

1	Analysis					
tal:	93		Reset 🗸 U	p to the End 🛛 🗷 Enable Events	Accept Refresh	Del
N	o IP	Event Name	Event Time	Information	Remark	
75	5 192.168.1.100	Port Error	2018/08/24 11:21:52	S-15,P-05	None	
76	5 192.168.1.100	Port Lost	2018/08/24 12:22:20	S-19,P-10	None	
77	7 192.168.1.100	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	5 192.168.1.100	Port Lost	2018/10/08 11:06:12	S-01,P-01	None	
86	5 192.168.1.100	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	3 192.168.1.100	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	

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

	ate:2018/08/22 15:4	15-35		▼ ☑ Date Range: 2018年	8月22日 □▼ ~ 2018年12月26日 □▼ ▲	Analysis Save
	onnection				- Tot	al: 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.

ECS Tree Setting  Panel Setting  Rack View System Tree
mpany
Location
😂 Floor
Room
Rack
192.168.1.100.Network Scanner 24
192.168.1.100.02.Cat6a UTP
OP.14-1U router-New
OP.53-1U 48 Ports Swtich with Exp
< III +
Add Delete Expand Collaps

**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

time: 2018/12/26 下午 03:0 Save All address of device table MAC-IP address in database Save Oper Copy device table @

- 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

Record time: 2018/12/26 下午: 03:0 5 5 5 5 5
MAC-IP address of device table MAC-IP address in database Save
1 Get Data from Device 2 Copy device table 🛷 🔫
Switch Data A Switch Data User Data
utich with Expansion Port New MAC-P01 MAC-P01
IP-P01 IP-P01 3
MAC-P02 MAC-P02
IP-P02 IP-P02
MAC-P03 2 MAC-P03
J 48 Ports Switch with Expansion Port IP-P03
MAG-P04 MAG-P04
1P-P04 1P-P04
Add MAC-P05 MAC-P05
1P-P05 1P-P05
munity: MAC-P06 MAC-P06
1P-P06 1P-P06
Purchase Date: 26 December, 2011 • MAC-P07 MAC-P07
1P-P07 1P-P07
MAC-P08 MAC-P08
SNMP Trap Enable IP-POB IP-POB
MAC-P09 MAC-P09
IP-P03 IP-P03
IP-P03 IP-P03 IP-P03 IP-P03

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

es Ev	ent List								
tal:	2			Reset	Up to the End	🗷 Enable Even	ts		Refresh
No	ID	IP	Port	Vendor	Model	EventName	EventTime	Inf	Remark
		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.

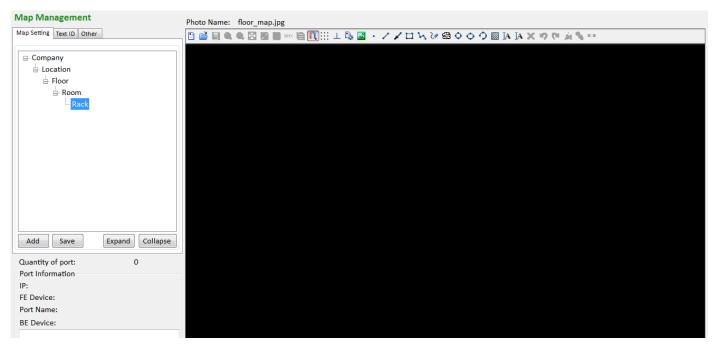
# **11 Map Function Instructions**

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

Map Management	Photo Name: floor_map.jpg
Map Setting Text ID Other	□ 🖆 🗟 🔍 🔍 🖾 📓 👓 🖹 🛄 ::: ⊥ 🖏 📓 + 🗸 🖌 🗆 🗞 🐼 ♦ ♦ ♦ 🖓 🚯 🔭 🐼 🖓 👘
- Company	
Location	
E Floor	
- Room	
Rack	
Add Save Expand Collapse	
Quantity of port: 0 Port Information	
IP:	
FE Device:	
Port Name:	
BE Device:	

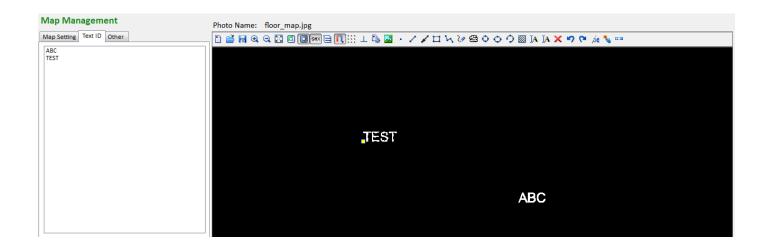
1) After selecting the Add Text button, left click on the mouse on a location of the map for inserting the text, and input the information point name.

2) After clicking on OK, the location now displays the name of the information point.

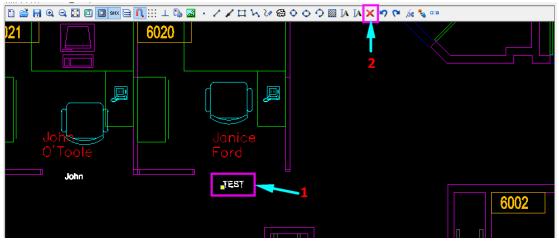
3) After adding the information point names sequentially, please be sure to click on the "Save" button on the map setting page.



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

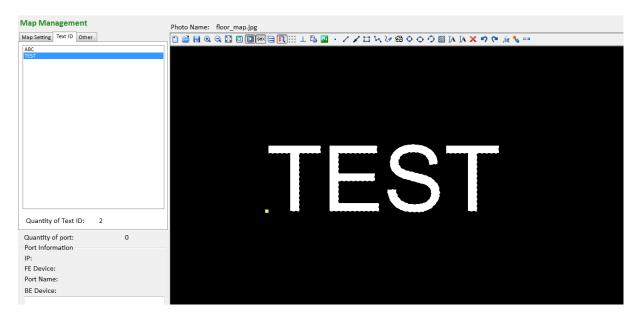


- 1) Select the information point
- 2) Click on "Delete" button

3) After deleting the information point names sequentially, please be sure to click on the "Save" button on the map setting page.

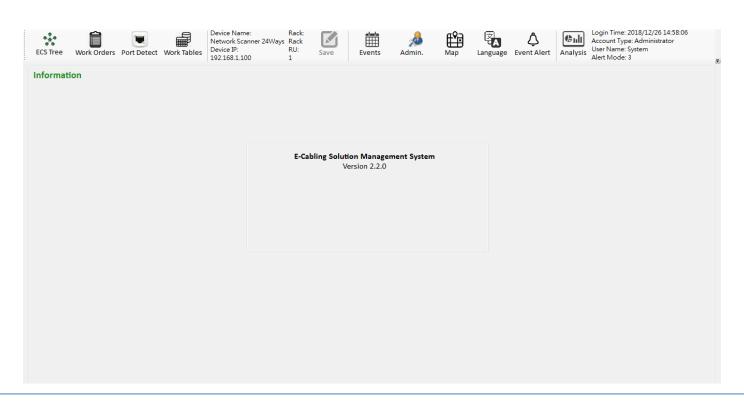
Map Management
Map Setting Text ID Other
⊡-Company
Location
- Floor
- Room
Rack
Add Save Expand Collapse

### 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**

Internet Protocol Version 4 (TCP/IPv4)	Properties 2 X							
General								
	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
Obtain an IP address automatical	у							
O Use the following IP address:								
IP address:	192 . 168 . 10 . 20							
Subnet mask:	255.255.255.0							
Default gateway:								
Obtain DNS server address autom	natically							
Ose the following DNS server add	resses:							
Preferred DNS server:								
Alternate DNS server:	· · ·							
Validate settings upon exit								
	OK Cancel							

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

	Control Panel Home	Help protect your computer wit	h Windows Firewall		
	Allow a program or feature through Windows Firewall	Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network.			
۲	Change notification settings	How does a firewall help protect my computer?			
۲	Turn Windows Firewall on or off	What are network locations?	201.00.00		
۲	Restore defaults	Update your Firewall settings			
	Advanced settings	Windows Firewall is not using the settings to protect your computer.	ecommended 🛞 Use recommended settings		
	Troubleshoot my network	What are the recommended settin	gs?		
		W Home or work (private	networks Not Connected 😒		
		Public networks	Connected 📀		
		Networks in public places such as airpo	ts or coffee shops		
		Windows Firewall state:	Off		
		Incoming connections:	Block all connections to programs that are not on the list of allowed programs		
		Active public networks:	None		
		Notification state:	Notify me when Windows Firewall blocks a new program		

#### Step 2: Windows Firewall with Advanced Security

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

indows Firewall with Advanc	Inbound Rules					Actions
Inbound Rules	Name	Group	Profile	Enabled	Acti 🔺	Inbound Rules
tion Security Rules	🔇 Acer Arcade Deluxe		All	Yes	Allo	New Rule
tion Security Rules oring	🕢 Acer HomeMedia		All	Yes	Allo _	Filter by Profile
	🐼 Acer Play Movie		All	Yes	Allo	
	🕜 Acer Play Movie Resident Program		All	Yes	Allo	Filter by State
	🐼 AnyDesk		Domain	Yes	Allo	Filter by Group
	🔇 AnyDesk		Private	Yes	Allo	View
	🐼 AnyDesk		Private	Yes	Allo	Refresh
	<ul> <li>Ø AnyDesk</li> <li>Ø AnyDesk</li> <li>Ø AnyDesk</li> <li>Ø BackupSvc.exe</li> </ul>		Public	Yes	Allo	
			Public	Yes	Allo	Export List
			Domain	Yes	Allo	P Help
			Public	Yes	Allo	
	🕑 BackupSvc.exe		Public	Yes	Allo	1
	SEPS Management Utility		Public	Yes	Bloc	
	SEPS Management Utility		Public	Yes	Bloc	
	🚫 eps management utility.exe		Public	Yes	Bloc	
	🚫 eps management utility.exe		Public	Yes	Bloc	
	Microsoft Office OneNote		Public	Yes	Allo	
	Microsoft Office OneNote		Public	Yes	Allo	
	🖉 SchedulerSvc.exe		Public	Yes	Allo	
	🕖 SchedulerSvc.exe		Public	Yes	Allo	
	ACOLD 1		A.16	N	AIL	11

- Step 4: Open Input Rules Wizard
- Step 5: Rule type selection port (O)

Mew Inbound Rule Wizard	d 📃 🔀
Rule Type Select the type of firewall rule to	create.
Steps: Rule Type Protocol and Ports Action Profile Name	What type of rule would you like to create?

- Step 6: Communication Protocol and Port, select "TCP."
- Step 7: Specify local port (S): Input "1433."

Prev Inbound Rule Wizar	d	
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 UI TCP UDP Does this rule apply to all local po All local ports	
	<ul> <li>Specific local ports:</li> </ul>	1433 Example: 80, 443, 5000-5010
	Learn more about protocol and po	orts < Back Next > Cancel

- Step 8: Click on "Next (N)>"
- Step 9: Execute action, select "Connection Allowed (A)"

Prev Inbound Rule Wizard	3	X
Action Specify the action to be taken whe	n a connection matches the conditions specified in the rule.	
Specify the action to be taken whe Steps: Protocol and Ports Action Profile Name	<ul> <li>a connection matches the conditions specified in the rule.</li> <li>What action should be taken when a connection matches the specified conditions?</li> <li>Allow the connection This includes connections that are protected with IPsec as well as those are not.</li> <li>Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.</li> <li>Customize</li> <li>Block the connection</li> </ul>	
	Learn more about actions < Back Next > Cancel	

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

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

Mew Inbound Rule Wizar	d
Profile	
Specify the profiles for which th	us rule applies.
Steps:	
Rule Type	When does this rule apply?
Protocol and Ports	
Action	Domain
Profile	Applies when a computer is connected to its corporate domain.
<ul> <li>Name</li> </ul>	<ul> <li>Private Applies when a computer is connected to a private network location.</li> <li>Public Applies when a computer is connected to a public network location.</li> </ul>
	Learn more about profiles < Back Next > Cancel

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.

Name         Specify the name and description of this rule.         Steps:         Rule Type         Protocol and Ports         Action         Profile         SQL Database         Description (optional):         Image: SQL Database         Description (optional):         Image: SQL Database         Description (optional):         Image: SQL Database         Description (optional):	Prev Inbound Rule Wizard		x
Steps: <ul> <li>Rule Type</li> </ul> <ul> <li>Protocol and Ports</li> </ul> <ul> <li>Action</li> </ul> <ul> <li>Profile</li> <li>SQL Database</li> </ul> Description (optional):	Name		
<ul> <li>Rule Type</li> <li>Protocol and Ports</li> <li>Action</li> <li>Profile</li> <li>Name:</li> <li>SQL Database</li> <li>Description (optional):</li> </ul>	Specify the name and description	f this rule.	
Protocol and Ports     Action     Profile     Name:     SQL Database     Description (optional):	Steps:		
Action     Profile     Name:     SQL Database     Description (optional):     [	Rule Type		
Profile     Name:     SQL Database  Description (optional):	Protocol and Ports		
Name  SQL Database  Description (optional):	Action		
Name Description (optional):	Profile		
	Name	SQL Database	
< Back Finish Cancel		Description (optional):	
< Back Finish Cancel		L	
< Back Finish Cancel			
< Back Finish Cancel			
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< Back Finish Cancel			
< Back Finish Cancel			
< Back Finish Cancel			
< Back Finish Cancel			
< Back Finish Cancel			
< Back Finish Cancel			
< Back Finish Cancel			
< Back Finish Cancel			1
		< Back Finish Cancel	J

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

ile Action View Help							
• 🔿 🔰 💼 😫 🚺 🖬							
Windows Firewall with Advance	Inbound Rules					Actions	
Inbound Rules Cutbound Rules	Name	Group	Profile	Enabled	Acti ^	Inbound Rules	
🗱 Outbound Rules 🌆 Connection Security Rules	🕢 SQL Database		All	Yes	Allo	🐹 New Rule	
Monitoring	Acer Arcade Deluxe		All	Yes	Allo _	Filter by Profile	
and monitoring	🐼 Acer HomeMedia		All	Yes	Allo	and a second second	
	🐼 Acer Play Movie		All	Yes	Allo	Filter by State	
	Acer Play Movie Resident Program     AnyDesk		All	Yes	Allo	🕎 Filter by Group	
			Domain	Yes	Allo	View	
	🖉 AnyDesk		Private	Yes	Allo	122	
	🖉 AnyDesk		Private	Yes	Allo		
	<ul> <li>Ø AnyDesk</li> <li>Ø AnyDesk</li> <li>Ø AnyDesk</li> </ul>		Public	Yes	Allo	Export List	
			Public	Yes	Allo		
			Domain	Yes	Allo		
	🐼 BackupSvc.exe		Public	Yes	Allo	SQL Database Disable Rule	
	🕖 BackupSvc.exe		Public	Yes	Allo		
	SEPS Management Utility		Public	Yes	Bloc	🔏 Cut	
	Seps Management Utility		Public	Yes	Bloc		
	Seps management utility.exe		Public	Yes	Bloc		
	Seps management utility.exe		Public	Yes	Bloc	🔀 Delete	
	Ø Microsoft Office OneNote		Public	Yes	Allo	Properties	
	Ø Microsoft Office OneNote		Public	Yes	Allo	P Help	
	SchedulerSvc.exe		Public	Yes	Allo	line the	
	SchedulerSvc.exe		Public	Yes	Allo		
	🖉 SQL Database		All	Yes	Allo		
	🕖 Teamviewer Remote Control Applicatio	n	Private	Yes	Allo		

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."

I	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
	n 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 "EPSDatabase.mdf" and "EPSDatabase\_log.ldf" in the file folder of C:\Program Files\Microsoft SQL Server\MSSQL12.CTKSCANNER\MSSQL\DATA.

🐌 Microsoft SQL Server	*	名稱	修改日期
80		📴 EPSDatabase.mdf	2015-0
<b>90</b>		EPSDatabase log.ldf	2015-0
<b>100</b>		📴 master.mdf	2015-0
110		📴 mastlog.ldf	2015-0
<b>1</b> 20		📴 model.mdf	2015-0
Lient SDK		🔋 modellog.ldf	2015-0
MSRS12.CTKSCANNER		📴 MSDBData.mdf	2015-0
MSSQL10.SQLEXPRESS		📴 MSDBLog.ldf	2015-0
MSSQL12.CTKSCANNER		📴 ReportServer\$CTKSCANNER.mdf	2015-0
MSSQL		🔋 ReportServer\$CTKSCANNER_log.ldf	2015-0
퉬 Backup		📴 ReportServer\$CTKSCANNERTempDB	2015-0
퉬 Binn		ReportServer\$CTKSCANNERTempDB	2015-0
\mu data		📴 tempdb.mdf	2015-0

Step 2. Delete the two files of "EPSDatabase.mdf" and "EPSDatabase\_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 <u>Appendix F</u> 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.