

User Manual

Version: 1.1

Software Version: For Access 4.1.8/5.0.8 and above Version

Date: June, 2011

About This Manual

This document introduces the main function, the user interface and operations of the system. For installation, please refer to the Quick Installation Guide.

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Definitions

Super user: The user who has all operation levels of the system, which can assign new users (such as company management personnel, registrar, and access control administrator) in the system and configure the roles of corresponding users.

Role: During daily use, the super user needs to assign new users having different levels. To avoid individual setting for each user, roles having certain levels can be set in role management, and then be assigned to specified users.

Access Control Time Zone: It can be used for door timing. The reader can be made usable during valid time periods of certain doors and unusable during other time periods. Time zone can also be used to set Normal Open time periods of doors, or set access control levels so that specified users can only access specified doors during specified time periods (including access levels and First-Card Normal Open settings).

Door Status Delay: The duration for delayed detection of door sensor after the door is opened. Detection is performed only after the door is opened and the delay duration expired. When the door is not in the "Normally Open" period, and the door is opened, the device will start timing. It will trigger alarm when the delay duration expired, and stop alarm when you close the door. The door status delay should be longer than lock drive duration.

Close and Reverse-lock: Set locking or not after door closing.

Lock Drive Duration: Used to control the delay for unlocking after card punching.

First-Card Normal Open: During a specified interval, after the first verification by the person having First-Card Normal Open level, the door will be Normal Open, and will automatically restore closing after the valid interval expired.

Multi-Card Opening: This function needs to be enabled in some special access occasions, where the door will open only after consecutive verification of several people. Before verifying, any person verification out of this combination (even the person belongs to other combination) will interrupt the procedure, and you need to wait 10 seconds to restart verifying. It will not open upon verification by one of the combination.

Interlock: Can be set for any two or more lock belong to one access control panel, so that when one door is opened, the others will be closed. And you can open one door only when others are closed.

Anti-pass Back: The card holder who entered from a door by card punching must exit from the same door by card punching, with the entry and exit records strictly consistent.

Linkage Setting: When an event is triggered at an input point of the access control system, a linkage action will occur at the specified output point to control such events as verification, opening, alarm and exception of the system and list them in the corresponding monitored report for view by the user.

1. System Instruction

1.1 Functions Instruction

The security management is increasing concerns of modern enterprises. This management system facilitates customers to integrate operation of safety on one platform, making access control management easier and more reasonable, so as to improve efficiency.

System Features

- 1. Powerful data processing capacity, allowing management of the access control data of 30,000 people.
- 2. Visible and reasonable work flows come from abundant experience in access control management.
- 3. Automatic user name list management.
- 4. Multilevel management role-based level management secures user data confidentiality.
- 5. Real-time data acquisition system ensures prompt feedback of access control data to the management.

***** Configuration Requirements:

CPU: Master frequency of 2.0G or above:

Memory: 1G or above;

Hardware: Available space of 10G or above. We recommend using NTFS hard disk partition as the software installation directory (NTFS hard disk partition has the better performance and higher security).

Operating System:

Supported operation systems:

Windows XP/Windows 2003/Windows Vista/Windows7

Supported databases:

MySQL/MS SQL Server2005/Oracle10g

System Modules:

The system includes five major functional modules:

Personnel system: Primarily two parts: first, department management settings, used to set the Company's organizational chart; second, personnel management settings, used to input personnel information, assign departments, maintain and manage personnel.

Device system: Set communication parameters for device connection, including system settings and machine settings. After successful communication, the information of connected devices can be viewed, and such operations as remote monitoring, uploading and downloading can be performed in the system.

Access control system: WEB-based management system, enabling normal access control functions, management of networked access control panel via computer, and unified personnel access management. The access control system sets door opening time and levels for registered users, so that some users are permitted to unlock some doors through verification during certain intervals.

Video system (For professional version): The system provides the video linkage function, to manage the network video recorder, view the real-time video, and query the video records. It pops up the real-time video when the linkage events happen.

System settings: Primarily used to assign system users and configure the roles of corresponding module; management database, such as backup, initialization and recovery; and set system parameters and manage system operation logs.

1.2 Basic Operation Flow

The following are the basic steps to use the system, based on the role of a super user. Different users have different operation levels, so the steps may slightly differ. The user just needs to follow the steps below and skip the items which are not displayed on your interface.

- **Step 1:** Log in to the system to modify the default password of the account;
- **Step 2:** Assign accounts and roles to system users (such as company management personnel, registrar, access control administrator);
- **Step 3:** Set system parameters, database, notice, reminder and other frequently used system information;
- **Step 4:** Add devices to the system, and configure the basic information of devices;
- **Step 5:** The user sets departmental organization chart refer to the organizational chart of your company;
- Step 6: Input company personnel and conduct daily maintenance of the personnel;
- Step 7: Set access control time zones and access control holidays (as access control

1. System Instruction

exceptions);

Step 8: Set parameters for access controlled doors;

Step 9: Set access levels to establish access control based on doors group and time zones;

Step 10: Set the access levels of personnel by assigning personnel to access levels to decide which people can open which doors during which time zones.

2. System Management

1. Log in to the system

After installing the server on the computer, the user can access the server through the network and use this system.

Open the browser and enter the server's IP address in the address bar. Press [Enter] to access the system homepage.

If you use the program at server computer, please open the [Server Controller] first, and start the service. Then double click the [Access Security System] shortcut on the desktop, the following homepage pops up.

Note: Please right click [Server Controller] and select [Run as Administrator] in Windows 7/Vista system.



Before accessing the system, for system security, it is required to verify identity. We will provide a super user (having all operation levels) for the beginner of this system. Enter user name and password, and click [login], or click [Fingerprint Login], and then press the administrator fingerprint on the fingerprint sensor (need to install the fingerprint sensor driver first), to enter the system.

Note: The user name of the super user is [admin], and the password is [admin]. After first login to the system, for system security, please use [Modify password]

function to modify the password.

The super user can assign system users to company personnel (such as company management personnel, registrar, and access control administrator) and configure the roles of corresponding modules. For details, see 7.1 User Management.

2. Ouit the system:

Click [Logout] button on the upper right corner of the interface to return to the homepage.

Or close the browser directly to guit the system.

After that, enter the [Server Controller] and stop the server, then quit the [Server Controller].

3. Customize settings:

The user can use this function to customize the main interface. Click [Setting] to activate the Setting interface, and enter the following information: E-mail address, First Name, Last Name, and Language. Click [Confirm] to complete setting.

The modified system interface will change accordingly, such as the desired language.

4. System user manual:

Press the icon to view the system help file. On each operation interface, a "?" icon will appear on the right top of the interface, indicating the help for the current page. Click it to view the help file.

5. Modify password:

The super user and the new user created by the super user (the default password for the new user is "111111") can use the [Modify password] function to modify the login password for system security. Click [Modify password], it pops up the edit Page. Enter the old password and the new password, confirm the new password and click [Confirm] to complete the modification.



Note: The user name is case-insensitive, but the password is case-sensitive.

3. My Work Panel

After the user log in to the system, it will show the [My Panel] main interface, displaying common operation and other important information.

The default work panel includes the following modules:

The user can rapidly perform some common operation here, as shown below.



Add Person please refer to 4.2.1 Add Personnel;

Card Issue please refers to 4.2.2 Personnel Information Maintenance;

Add Department please refers to 4.1 Department Management;

Add Area please refers to 5.1 Area Settings;

View Reports please refers to 6.7 Access Control Reports;

Device monitoring please refers to 5.3 Device Communication Management;

Access Control Quick Start: Follow the steps to enter corresponding modules for related operation, thus basically fulfilling access control functions.



Device management please refers to 5.2 Device Management;

Personnel management please refers to 4.2 Personnel Management;

Time zone settings please refer to 6.1 Access Control Time Zones;

Holidays settings please refer to 6.2 Access Control Holidays;

Door configuration please refers to 6.3 Door Settings;

Create access levels please refer to 6.4 Access Levels;

Personnel access levels settings please refer to 6.5 Personnel Access Levels;

Real-time monitoring please refers to 6.6 Real-time Monitoring;

Customize Work Panel:

Click [Customize Work Panel] on the upper right corner to pop up a dialog box. Cancel the tick of your undesired modules (all ticked by default), and click [OK] to complete setting. Now customized modules are displayed;

Or directly click the "—]" icon on a module to minimize, and click "X" to close the module. Click the upper bar to drag and adjust its position;

To restore the original panel, click [Restore Work Panel] to refresh and return to the system default work panel.

4. Personnel System Management

Before using the system's access control management functions, first access the personnel system for configure: First, department management settings, used to set the company's organizational chart; Second, personnel management settings, used to input personnel, assign departments, and maintain and manage personnel. Then set access control.

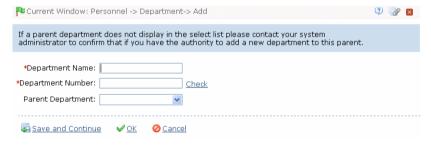
4.1 Department Management

Before managing company personnel, it is required to describe and manage the departmental organization chart of the company. Upon first use of the system, by default it has a primary department named [Company Name] and numbered [1]. This department can be modified but can't be deleted.

Main functions of department management include add department and department maintenance.

1. Add Department:

Click [Personnel] - [Department] - [Add] to show add department edit interface.



The fields are as follows:

Department name: Any character, up to a combination of 100 characters;

Department number: If required, it shall not be identical to another department. The length shall not exceed 100 digits. Click [Verify] to see if repeated or not;

Parent department: Select from the pull-down menu and click [OK];

After editing, click [OK] to complete adding, or click [Cancel] to cancel it.

To add a department, you can also use [Import] to import department information from other software or document into this system. For details, see Appendix 1

<u>Common Operation</u>. [Upper Department] is an important parameter to determine the Company's organizational chart. On the right of the interface, the Company's organizational chart will be shown in the form of department tree.

2. Department Maintenance:

Department maintenance includes department edit and delete:

Upon change of department or organizational structure, the user can use [Edit] function to modify such items as department name, department number or upper department. Click department name directly or click the [Edit] button behind the department to access edit interface for modification.

To delete a department, click the check box before the department, and click [Cancel Department], or directly click the [Delete] button behind the department.

Note: A department can not be deleted freely. If so, the personnel under the department will be pending, and some historical data will be unable to be queried. If deletion is required, please first transfer the departmental personnel to other department.

4.2 Personnel Management

When starting to use this management program, the user shall register personnel in the system, or import personnel information from other software or document into this system. For details, see <u>Appendix 1 Common Operation</u>.

4.2.1 Add Personnel

Click [Personnel] - [Personnel] - [Add] to show personnel profile edit interface:

n access control panel	only support	s 6-digit p	asswords. If a p	and department are rec password exceeds the sp	ecified length,	the syst	em will	truncate it automatically!
Personnel Profile								
*Personnel No. ;			Check	Nationality:	*******	×		
First Name:]	City:	*******	¥		
Last Name:]	Postal Code:				
Gender:		~		Office Telephone:				
Card Number:				Home Telephone:				
Password:			1	Mobile Phone:				
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Employment Date:	2011-06-08			Email:				
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Type:		-		Work Address:				
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Access Control Setting	ıs							
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Se	t Valid Time:	0						
lti-Card Opening Person	nnel Groups:		~					

The fields are as follows:

Personnel No.: By default, the length shall not exceed 9 digits. A number with a length of less than 9 digits will be preceded with 0 automatically to complete 9 digits. Numbers can not be repeated. Click [Verify] to see if it is repeated or not;

Department: Select from the pull-down menu and click [OK]. If the department was not set previously, you can only select the default [Company Name] department;

Social Security Number: Repetition is not allowed. Click [Verify] to check repetition. 15-digit and 18-digit ID card numbers are supported;

Card Number: Assign a card number to the person for access control use. This can be done manually or by using card issuer. For details, see personnel card issue in 4.2.2 Personnel Information Maintenance;

Password: Set personnel password. An access control panel only supports 6-digit passwords. If a password exceeds the specified length, the system will truncate it automatically. If you need to modify the password, please clear the old password in the box and input the new one;

Personal Photo: The best size is 120×140 pixels, for saving space. For details, see upload personal photo in 4.2.2 Personnel Information Maintenance;

Employment Date: By default it is the current date.

Register Fingerprint: Enroll the personnel fingerprint or duress fingerprint. If the person presses the duress fingerprint, it will trigger the alarm and send the signal to the system.

Note: If you have not install the fingerprint sensor driver, the system will prompt to download and install the driver when you click "Register Fingerprint" (Fingerprint function is only available for 5.0.8 and above version).

Access Control Settings: Select access levels, start and end dates of access validity time, multi-card opening personnel groups (Presetting is required. For details, see 6.3.3 Multi-Card Opening);

Validity time is set for temporary access control, where the door can be opened only during this time period. If not ticked, the setting will be always valid.

After editing personnel information, click [OK] to save and quit. The added personnel will be shown in the personnel list.

Note: The number of a person, whether departed or in service, must be unique. The system, when verifying, will automatically search the number in the departure library.

The personnel information list, by default, is displayed as a table. If graphic display is selected, photos and numbers will be shown. Put the cursor on a photo, the particulars about the personnel will be shown.

4.2.2 Personnel Information Maintenance

The operations include Personnel Card Issue, Upload Personal Photo, and etc.

For such functions, you can directly click the personnel number in the personnel list to enter the edit interface for modification, or click [Edit] button under "Related operation" to enter the edit interface for modification. After modification, click [OK] to save and quit.

1. Personnel card issue:

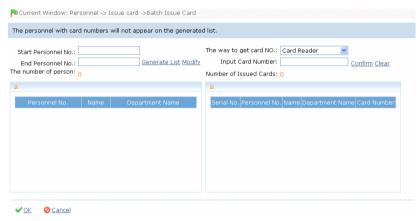
Assign card numbers to personnel, including batch card issue and individual card issue

(1) How to use the card issuer:

The card issuer is connected to the PC through USB port. When the cursor is on the card number input box, punch the card on the card issuer, then the card number will display in the input box.

(2) Batch card issue:

Click [Personnel] - [Card issue] - [Batch card issue] to show the batch card issue edit interface;



Enter start and end personnel numbers (not longer than the system support max digits) to generate personnel list and show this all personnel without cards within this number interval:

Select [The way to get card NO.]: Card Reader or Access Control Panel.

In using of the card reader, when you swipe the card near to the card reader, the system will get the card number and issue it to the user in the left list.

In using of the access control panel, you need to select the position of swiping card, such as a card reader connected with an access control panel. Click [Start to read], the system will read the card number automatically, and issue it to the user in the left list one by one. After that, click [Stop to read].

Click [OK] to complete card issue and return. Personnel and corresponding card numbers will be shown in the list.

(3) Individual card issue:

Click [Personnel] - [Card issue] - [Add] to show individual card issue interface;

Select personnel, enter card number (or use card issuer for card issue), select card issue date, and click [OK].

Note: A person can be issued cards for only once, the card modification can only through person information edition. The system supports card issue through card issuer and by manually inputting card numbers.

2. Upload personal photo:

Click [Personnel] - [Personnel], tick the personnel (only one person can be selected), click [Upload personal photo], enter the edit interface, click [browse] and select a photo, and click [OK] to save and exit.

4.2.3 Personnel Adjustment

Personnel adjustment is daily maintenance of existing personnel, primarily including: personnel adjust department and delete personnel.

1. Personnel adjust department:

Operation steps are as follows:

- (1) Click [Personnel] [Personnel], and select the person subject to department adjustment from the personnel list, click [Adjust Department] button, and the following interface appear;
- (2) Select the department to be transferred to
- (3) After editing, click [OK] to save and quit.

2. Delete personnel:

Click [Personnel] - [Personnel], select personnel, click [Delete], and click [OK] to delete, or directly click [Delete] under "Related operation" of the personnel to delete.

Note: Deleting personnel also results in deleting the personnel in database.

5. Device Management

Access control panel to be connected to this system provides access control system functions. To use these functions, the user must first install devices and connect them to the network. Second, set corresponding parameters in the system so as to manage these devices via the system, upload user access control data, download configuration information, output reports and achieve digital management of the enterprise.

Device management primarily includes area setting, device management, and device monitoring.

5.1 Area Settings

Area is a spatial concept, facilitating the user to manage devices in a specific area.

In the access system, after area setting, devices (doors) can be filtered by area upon real-time monitoring.

The system, by default, has set an area named [Headquarters] and numbered [1]. Area setting include add area and delete area.

1. Add area:

Click [Device] - [Area settings] - [Add] to activate the add area edit interface;

The fields are as follows:

Area Number: Repetition not allowed;

Area Name: Any character, up to a combination of 30 characters;

Parent Area: Decides the regional organization structure of the company.

After setting, click [OK].

2. Delete area:

Select area, click [Delete area], or directly click [Delete area] under "Related operation" of an area, and click [OK].

5.2 Device Management

Set the communication parameters of connected devices. Only when communication parameters, including system settings and device settings, are correct, normal

communication with devices will be possible. When communication is successful, you can view the information of connected devices, and perform remote monitoring, uploading and downloading data.

It includes add access control panel and add Network Video Recorder. Click [Device] - [Device] - [Add], the system will prompt to select the device type.



To add access control panel, search and view devices connected to the network, and directly add from the searching result.

5.2.1 Add Access Control Panel

There are two way to add access control panel.

1. Add device:

(1) In device type selection interface, select to add access control panel. The communication modes are TCP/ IP or RS485. The following interface will be shown:

TCP/IP:



IP address: Please enter the IP address of the access control panel;

IP port No.: In Ethernet mode, the default is 4370;

RS485:

Add	3	9	×
narameters, and their respective areas are mandatory. The system will verify the er, and determine whether the correct type of access control panels has been			
Access Control Panel)			
○ TCP/IP ● RS485			
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Serial port number: COM1-COM254;

485 address: The machine number. When serial port numbers are the same, there will be no repeated 485 addresses;

Baud rate: Same as the baud rate of the device (9600/ 19200/ 38400/ 57600/115200). The default is 38400;

Device name: Any character, up to a combination of 20 characters:

Communication password: Any character, up to a combination of 15 characters (No blank). You need to input this field only when you add a new device with the communication password. It can't be modify when you edit the device information except in [Modify communication password] operation. Please refer to <u>6.3.1 Door Management</u>.

Note: You need not input this field if the device has no communication password, such as it is new factory device or just after the initialization.

Panel type: One-door panel, two-door panel, four-door panel;

Switch to two-door two-way: When four-door panel is selected, this box will appear. By default, it is not ticked. This parameter is used to switch the four-door one-way access control panel to two-door two-way access control panel (For changes of extended device parameters before and after switching, see relevant files of access control panel).

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Note: After the four door one-way access control panel is switched to two-

door two-way access control panel, to switch back, you need delete the device from the system and add it again. When adding, do not tick the check box before this parameter.

Auto synchronizes device time: By default it is ticked, namely, it will synchronize device time with server time each time connecting the device. If it is not ticked, the user can manually synchronize device time;

Area: Specify areas of devices. After area setting, devices (doors) can be filtered by area upon real-time monitoring.

Clear Data in the Device when Adding: If this option is being ticked, after device adding, the system will clear all data in the device, except the event logs. If you add the device just for demonstration or testing of the system, it's no need to tick it.

(2) After editing, click [OK], and the system will try connecting the current device:

If connection is successful, it will read corresponding extended parameters of the device. At this time, if the access control panel type selected by the user does not meet the corresponding parameters of the actual device, the system remind the user. If the user clicks [OK] to save, it will save the actual access control panel type of the device:

Extended device parameters: Such as serial number, device type, firmware version number, auxiliary input quantity, auxiliary output quantity, door quantity, device fingerprint version, and reader quantity.

If device connection fails, while the user still needs to add the device to the system, corresponding device parameters and extended parameters, such as serial number, will not be written into the system, and such settings as anti-passback and linkage will be impossible. These settings can be created only when the device is reconnected successfully and corresponding parameters are acquired.

K

Note: When you add a new device to the system, the software will clear all

user information, time zones, holidays, and access control levels settings (includes access control group, anti-pass back, interlock settings, linkage settings, etc.) from the device, except the events record in the device. Unless the information in the device is unusable, we recommend you not to delete the device in used, to avoid the lost of information.

Access control panel settings:

TCP/ IP communication requirements:

Support and enable TCP/ IP communication, directly connect the device with PC or

connect to the Internet, get the device IP address and other information of the device;

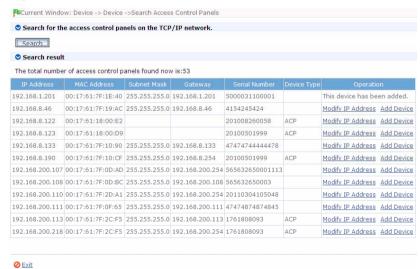
RS485 communication requirements:

Support and enable RS485 communication, connect to PC through RS485, get the serial port number, RS485 machine number (address), baud rate and other information of the device.

2. Add device by searching access control panels:

Search the access control panels in the Ethernet.

- (1) Click [Device] [Device] [Search panels], to show the search interface;
- (2) Click [Start search], and it will prompt [searching.....];
- (3) After searching, the list and total number of access control panels will be displayed;



Note: Here we use UDP broadcast mode to search the access controller, this mode can not exceed the HUB scale. IP address can exceed the net segment, but must belong to the same subnet, and need to configure the gateway and IP address in the same network segment.

(4) Click [Add to device list] behind the device, and a dialog box will pop up. Enter

self-defined device name, and click [OK] to complete device adding.

(5) The default IP address of the access control panel may conflict with the IP of a device on the Internet. You can modify its IP address: Click [Modify IP address] behind the device and a dialog box will pop up. Enter the new IP address and other parameters (Note: Must configure the gateway and IP address in the same network segment);

5.2.2 Add Network Video Recorder (For **5.0.8** and above Professional Version)

(1) In device type selection interface, select to add network video recorder, the following interface appears. Click [Next] and set the server information.

Current Window: Device -> Device-> Add	(3) (10) (X
The 'Device Name', the communication parameters, and their respective areas are mandatory. The system will verify the existence of device submitted by the user, and determine whether the correct type of access control panels has been selected.	
Step 2: Add Device Information(NetWork Video Recorder)	
Step 2: And Device Information(Network video Recorder)	
*Device Name:	
*IP Address:	
*IP Port No. : 8000	
*Username:	
Communication Password:	
*Area:	
Save and Continue ✓ OK Ø Cancel	

IP Address: The IP address of the device.

IP Port: IP port of the device, 8000 by default.

User Name: The user name to login the device.

Communication Password: The password to login the device.

(2) After edition, click [OK] and the new video server will display on the device list. The system supports Hikvision network video recorder only by now.

5.2.3 Device Maintenance

Synchronize all data: The system will synchronize the data to the device, including door information, access control levels (personnel information, access control time zones), anti-pass back settings, interlock settings, linkage settings, first-card normal open settings, multi-card normal open settings and so on. Select device, click [Synchronize all data] and click [OK] to complete synchronization.

Ø

Note: The operation of synchronize all data is mainly about: Delete all data in

the device first (except event record). Download all settings again, please keep the net connection steady and avoid power down situation, etc. If the device is normally working, please use this function with caution. You can execute it at seldom user situation, to avoid the impact for the normal using of the device.

Delete: Select device, click [Delete], and click [OK].

Edit: Click device name, or click [Edit] under "Related operation" behind the device to pop up the edit interface.

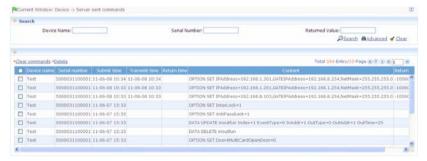
For the meanings and settings of the parameters, see the relevant chapters for details. The gray items are not editable. Device name can not be identical with the name of another device.

Since device type cannot be modified, if the type is wrong, the user need manually delete the device and add it again.

5.3 Device Communication Management

1. Commands sent by server

Shows the list of commands sent to the device by the current system. If the return value is ≥ 0 , execution is successful. If it is a negative, the execution failed.



Clear command list: Click it to pop up the Confirm interface. Click [OK] to clear all items in the list of commands sent by the server;

Delete: Tick the check box before the command to be deleted, and click [Delete]. Confirm to delete the command.

2. Device monitoring

By default it monitors all devices with the current user's level, and lists the operation

information of the devices: device name, serial number, operation type, current status, commands to be executed, and progress, etc.



5.4 Daylight Saving Time

DST, also called Daylight Saving Time, is a system that prescribes the local time setting principle in order to save energy. The unified time adopted during the system date is called "DST". Usually, the time will be one hour forward in summer. It can make people sleep early and get up early. So that to reduce lighting and save energy. In autumn, the time will be recovered. The regulations are different in different countries

To meet the demand of DST, a special option can be customized on this system. Make the time one hour forward at XX (minute) XX (hour) XX (day) XX (month), and make the time one hour backward at XX (minute) XX (hour) XX (day) XX (month) if necessary.

Note: If a DST setting is in use, it can not be delete, please first stop the DST, and delete it again.



1. DST Adding:

Mode 1: Set as "Month-day hour: minute" format, start time and end time is in need.

For example, the start time can be set as "3-11 00:00", when the start time arrives; the system will be one hour forward. When the end time arrives, the system will turn back to the original time.

Mode 2: Set as "Month-Weeks-week hour: minute" format. The start time and end time is in need. For example, the start time can be set "second Monday in March, 00:00" When the start time arrive, the system will be one hour forward. When the end time arrives, the system will turn back to the original time.

2. DST Using:

The user can enable the DST setting on a device, by the following ways:

In the DST interface, select a DST setting, and click [Daylight saving time setting], select the device which need to a DST setting and click [OK] to confirm.

Otherwise, in the [Access Control] – [Door Configuration] interface, select the device, and click [Enable daylight saving time] or [Disable daylight saving time] for setting.

If a DST setting is in use, the latest modification will be sent to the device. The device disconnect will lead to transmission failure, and it will continue the transmission at the next connection.

In door management module of access control system, you can enable or disable DST function. If you enable DST setting, when the start time arrives, the system will be one hour forward. When the end time arrives, the system will turn back to the original time. If you have not set a DST in the device, when you disable DST, the system will prompt "The daylight saving time hasn't been set in this device".

6. Security System Management

1. Work principle of the access control system:

The System is a WEB-based management system, realizing normal access control functions, management of networked access control panel via computer, and unified personnel access management.

The access control system can set the opening levels of registered users, namely, allowing some personnel to open some doors by verification during a time period.

Otherwise, the system supports to use the data from the access control panel for attendance purpose, to save the device resource.

It facilitates the management and support of multiple databases, including MySQL, SQL Server, and Oracle. Designed based on multi-business convergence, it supports service extension, such as attendance, patrol, and visitor management, etc., and supports multiple languages.

2. Access control system parameters:

- 256 time zones:
- 256 access levels;
- Three holiday types and totally 96 holidays;
- Anti-passback function;
- Interlock function:
- Linkage function;
- First-Card Normal Open function;
- Multi-Card Opening function:
- Remote door opening and closing:
- Real-time monitoring via Web browser;

3. Operation functions of access control system:

Click to enter the [Access Control System] and the main interface is [Real-time monitoring].

Access control system management primarily includes access control time zones, access control holiday, door settings, access levels, personnel access levels, real-time monitoring, and reports, etc.

6.1 Access Control Time Zones

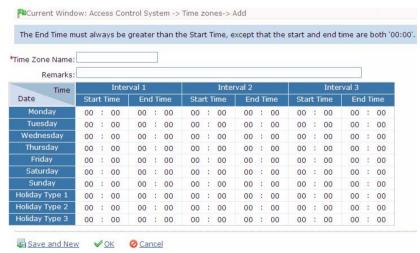
Access control time zone can be used for door timing. The reader can be made usable during valid time periods of certain doors and unusable during other time periods. Time zone can also be used to set Normal Open time periods of doors, or set access control levels so that specified users can only access specified doors during specified time periods (including access levels and First-Card Normal Open settings).

The system controls access according to access control time zones. The system can define up to 255 time zones. For each time zone, you can define, in a week, up to three intervals for each day and three holiday types. Each interval is the valid interval in 24 hours of each day. The format of each interval for a time zone: HH: MM-HH: MM, this is accurate to minutes in the 24-hour system.

Initially, the system, by default, has access control time zone named [Accessible 24 hours]. This time period can be modified but can not be deleted. The user can add access control time zones, which can be modified.

1. Add access control time zone:

(1) Click [Access Control System] - [Time zones] - [Add] to access the time zone setting interface;



The parameters are as follows:

Time zone name: Any character, up to a combination of 30 characters;

Remarks: Detailed description of the current time zone, including the explanation of the current time zone and primary applications, facilitating the user or other users with same level to view time zone information, which is up to 70 characters;

Interval and start/ end time: One access control time zone includes 3 intervals for each day in a week, and three intervals for each of the three access control holidays. Set the start and end time of each interval;

Setting: If the interval is Normal Open: Just enter 00:00-23:59 as the first interval, and 00:00-00:00 as the second and third intervals. If the interval is Normal Close: All are 00:00-00:00. If only using one interval, the user just need to fill out the first interval (such as: Normal Open), and the second and third intervals will use the default value of 00:00-00:00. Similarly, when the user only uses the first two intervals, the third interval will use the default value of 00:00-00:00. When using two or three intervals, the user needs to ensure two or three intervals have no time intersection, and the time shall not span days. Otherwise, the system will prompt error.

Holiday Type: There are three holiday types in the time zone. They are unrelated to which day in week it is. If certain date is set to certain holiday type, the three intervals of the holiday type will be used for access. The holiday type in a time zone is optional. However, if the user does not fill out, the system will give the default value.

For example, set the access control interval of holiday type 1 as 8-20, the access control time period of holiday type 2 as Normal Open, and the access control time zone of holiday type 3 as Normal Close.

(2) After time zone setting, click [OK] to save, and the time zone will appear in the list.

2. Maintenance of access control time zone:

Edit: In the time zone list, click [Edit] button under "Related operation" to access time zone modification interface, and modify time zone setting. After modification, click [OK], and the modified time zone will be saved and shown in the time zone list.

Delete: In the time zone list, click [Delete] button under "Related operation". Click [OK] to delete the time zone, or click [Cancel] to cancel the operation. The time zone in use can not be deleted.

Tick the check boxes before one or more time zones in the time zone list. Click the [Delete] button over the list, and click [OK] to delete the selected time zones, or click [Cancel] to cancel the operation.

6.2 Access Control Holidays

The access control time of a holiday may differ from that of a weekday. For easy operation, the system provides holiday settings to set access control time for holidays.

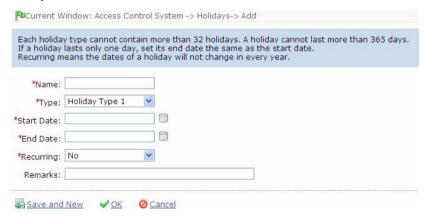
Access control holiday management includes add, modify and Delete access control holiday.

1. Add access control holiday:

Three holiday types are supported, each including up to 32 holidays. To conduct special access level configuration on special dates, the user can select special holidays for setting.

The operation steps are as follows

(1) Click [Access Control System] - [Holidays] - [Add] to access add access control holiday edit interface:



The fields are as follows:

Holiday Name: Any character, up to a combination of 30 characters;

Holiday Type: Holiday type 1/2/3, namely, a holiday record currently added is belong to these three holiday types, and each holiday type includes up to 32 holidays;

Start/ End Date: Must meet the date format as "2010-1-1". The start date can not be later than the end date. Otherwise, the system will prompt error. The year of the start date can not be earlier than the current year, and the holiday can not span years;

Recurring: Yes or No. The default is "No". Annual cycle means that a holiday does not require modification in different years. For example, the Near Year's Day is on January 1 each year, and can be set as "Yes". For another example, the Mother's Day is on the second Sunday of each May, so its date is not fixed, and should be set as "No":

For example, the date of the holiday "Near Year's Day" is set as January 1, 2010, and the holiday type is 1, then on January 1, access time control will not follow the time of "Friday" in week, but the access control time of holiday type 1.

(2) After editing, click [OK] button to save, and it will appear in the holiday list.

2. Modification of access control holiday:

To modify the original access control holiday, click [Edit] behind the access control holiday to access edit interface. After modification, click [OK] to save and quit.

3. Deletion of access control holiday:

In the access control holiday list, click [Delete] button under "Related operation". Click [OK] to delete the holiday, or click [Cancel] to cancel the operation. An access control holiday in use can not be deleted.

Tick the check boxes before one or more holidays in the holiday list. Click the [Delete] button over the list, and click [OK] to delete the selected holiday, or click [Cancel] to cancel the operation.

6.3 Door Settings

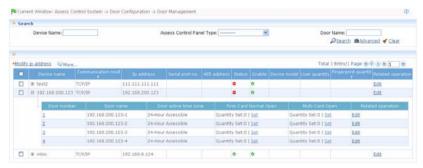
Currently the system supports the connection and control of up to 50 access control panels.

The access control system is primarily for the management of personnel forbidden and admission. For security, a company will set personnel admission time zones, forbidden time zones and combinations of time zones. For door opening verification, First-Card Normal Open, Multi-Card Opening, anti-passback, linkage, and interlock can be set to enhance security. This system can provide real-time monitoring of doors and output of exception, access control events and access level reports.

6.3.1 Door Management

Click [Access Control System] - [Door configuration], and by default it will access [Door management] interface, showing the list of all control panels. When unfolded, it can show all doors under the control of the control panel. Upon first entry into the access interface or successful query, if currently the system has access control panels

or the query result is not null, by default it will unfold the doors of the first access control panel. Click corresponding button for relevant parameter setting.



Door management operations include: control panel management and door management.

1. Access Control panel operation

For communication between the system and the device, data uploading, configuration downloading, device and system parameters shall be set. The user can see access control panels within his levels in the current system, and can edit the devices here. If the user needs to add or delete devices, operate in device management.

Control panel management includes: Modify IP address, Close auxiliary output, disable, Enable, Modify communication password, Synchronize time, Upload event record, Upgrade firmware, and Get event entries.

(1) Device profile:

Select device, click [Edit] under "Related operation". For Related details, see <u>5.2.2</u> <u>Device Maintenance</u>.



(2) Modify IP address:

Select device and click [Modify IP address] to show the modification interface. It will obtain real-time network gateway and mask from the device. If it's failed, that the network is unreasonable, then the IP address can not be modified. Enter new IP address, gateway, and subnet mask. Click [OK] to save settings and quit. This function is same as [Modify IP address function] in 5.2.1 Add Access Control Panel. The difference is when searching control panels, the devices have not been added into the system, while the current [Modify device IP address] is regarding added devices.

(3) Disable/Enable:

Select device, click [Disable/ Enable] to stop/ start using the device. When the device's communication with the system is interrupted or the device fails, the device may automatically appear in disabled status. At this time, after adjusting Internet or device, click [Enable device] to reconnect the device and restore device communication.

Note: If the current device is in enabled status and the connection is not Ø\$ successful, and the user conducts enable operation, the system will immediately reconnect the device.

(4) Modify communication password:

Enter the old communication password before modification. After verification, input the same new password twice, and click [OK] to modify the communication password.



Note: The communication password can not contain space, it is recommended

to use a combination of numbers and letters. The communication password setting can improve the device security, it is recommended to set communication password for each device.

(5) Synchronize time:

Synchronize device time with current server time.

(6)Get event entries:

Get event records in the device into the system.

Three options are provided for this operation, Get New Entries, Get All Entries, and Get entries from SD Card

Get New Entries: The system only gets the new event entries after the last time

event entries getting, and record them into the database, the repeated entries will not rewrite again.

Get All Entries: The system will get all of the event entries again, the repeated entries will not rewrite again.

Get Entries from SD Card: The system will get the event entries from the SD card in the device

When the network status is normal and the communication status between the system and the device is normal, the system will acquire event records in the device in real-time and save them into system database. However, when the network is interrupted or communication is interrupted for some reasons, and the event records in the device have not been uploaded into the system in real-time, this operation can be used to manually acquire event records in the device. In addition, the system, by default, will automatically acquire event records in the device at 00:00 each day.



Note: The access controller can restore up to 100 thousands of event entries,

after the entries exceed this number, the device will automatically delete the oldest restored entries (the default delete number is 10 thousands).

(7) Upgrade firmware

To upgrade firmware in the device, tick the device for which you want to upgrade firmware, click [Upgrade firmware], enter edit interface, click [Browse] to select the firmware upgrade file (named emfw.cfg) provided by us, and click [OK] to start upgrading.

Note: The user shall not upgrade firmware without authorization. Contact the distributor before upgrading firmware, or upgrade it when instructed by the distributor. Unauthorized upgrading may bring problems that affect your normal use.

(8) Change the fingerprint identification threshold (only available for 5.0.8 and above version)

The user can change the fingerprint identification threshold in the device, the scale is 35-70, it is 55 by default. In device adding, the system will get the threshold from device. If the operation succeeds, user can view the threshold in all of the devices. The batch operation is permitted; user can change multi devices meanwhile.

(9) Enable daylight saving time

Select the daylight saving time being set, click [Enable daylight saving time] to enable it.

(10) Disable daylight saving time

Disable the daylight saving time in used.

(11) Get information of personnel

Renew the current number of personnel and fingerprints in the device. And the final value will be displayed on the device list.

(12) Close auxiliary output

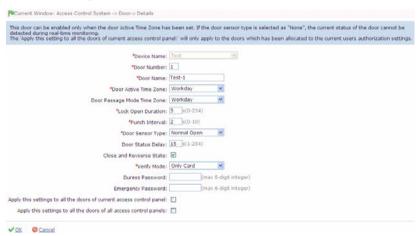
Close the auxiliary device connected with the device auxiliary output interface.

2. Door management:

The device list will show all access control devices. Click the "+" button before the device name to show the door list under a device. When adding device, it will automatically add doors (corresponding device name and door numbers can not be edited) according to the number of doors. Before using the device (including doors), the user must edit door information one by one (or apply current settings to other doors). After editing, they will be sent to the device, which can be used after successful setting.

(1) Door parameter modification:

Select the door to be modified, and click [Edit] under "Related operation" to show the Edit interface;



The fields are as follows:

Device Name: It is not editable (need to be edited in <u>5.2.1 Add Access Control</u> Panel);

Door Number: The system automatically names the numbers of doors according to how many doors of the device (for example, the four doors of a four-door control panel are numbered 1, 2, 3 and 4). The number will be consistent with the door number on the device.

Note: Although by default the number following the underline in the door name is consistent with the door number, but 1/2/3/4 in anti-passback and interlock refers to door serial number rather than the number following the door name, and they have no necessary relation, and the system allows the user to modify the door name, so they can not be confused;

Door Name: The default door name is "device name_door number". The field allows the user to modify as required. Up to 30 characters can be entered;

Door Active Time Zone, **Passage Mode Time Zone**: By default either is null. Initialized and added access control time zones will be shown for the user to select. Upon door editing, door valid time zone is needed to input. Only after setting door valid time zone, the door can be opened and closely normally. We recommend to set door normal open time period within the door valid time zone, only in this situation, the door normal open time zone is valid;

Note: Consecutive punching of a card having access level of the door for 5 times can release the normal open status within one day (including First-Card Normal Open), and close the door immediately.

Lock Drive Duration: Used to control the delay for unlocking after card punching. The unit is second, and the default is 5 seconds. The user can enter a number between 0-254;

Punch Interval: The unit is second (range: 0-10 seconds), and the default is 2 seconds;

Door Sensor Type: NO (door sensor not detected), Normal Open, Normal Close. The default is NO. When editing doors, the user can select the door sensor type to be Normal Open or Normal Close. If Normal Open or Normal Close is selected, it is required to select **door status delay** and whether **close and reverse-lock** is required. By default, once door sensor type is set as Normal Open or Normal Close, the default door status delay will be 15s, and by default it will enable close and reverse-lock.

Door Status Delay: The duration for delayed detection of door sensor after the door is opened. Detection is performed only after the door is opened and the delay duration expired. When the door is not in the "Normally Open" period, and the door is opened, the device will start timing. It will trigger alarm when the delay duration expired, and stop alarm when you close the door. The default door status delay will

be 15s. The door status delay should be longer than lock drive duration.

Close and Reverse State: Set locking or not after door closing. Tick it for lock after door closing.

Verify Mode: Identification modes include Only Card, Card plus Password, Only Password, Card plus Fingerprint, and Only Fingerprint verify. The default is Only Card or Only Fingerprint. When Card plus Password mode is selected, make sure the door uses a reader with keyboard (the fingerprint verify modes are only available for 5.0.8 and above version);

Duress Password, **Emergency Password**: Upon duress, use duress password (used with legally card) to open the door. When opening the door with duress password, it will alarm. Upon emergency, the user can use emergency password (named super password) to open the door. Emergency password allows normal door opening. Emergency password is effective in any time zone and any type of verify mode, usually used for the administrator.

Duress Password Opening (used with legally card): When Only Card verify mode is used, you need press [ESC] first, and then press the setting password plus [OK] button, finally swipe your card, the door open and trigger the alarm. When Card Plus Password verify mode is used, please swipe your card first, then press the password number plus [OK] button (same to normal door open in card plus password verify mode), the door open and trigger the alarm.

Emergency Password Opening: The password must be a number not exceeding 8 digits (integer). The door can be opened just by entering the password. Please press [ESC] every time before entering password, and then press OK to execute.

When using duress password or emergency password, the interval for entering each number shall not exceed 10 seconds, and these two numbers should not be the same.

Apply these settings to all the doors of current access control panel: Click to apply to all doors of the current access control panel;

Apply these settings to all the doors of all access control panels: Click to apply to all doors of all access control panels within the current user's level;

After parameter editing, click [OK] to save and quit.

6.3.2 First-Card Normal Open

First-Card Normal Open: During a specified interval, after the first verification by the person having First-Card Normal Open level, the door will be Normal Open, and will automatically restore closing after the valid interval expired.

The user can set First-Card Normal Open for a specific door. The settings include

door, door opening time zone and personnel with First-Card Normal Open level. A door can have First-Card Normal Open settings for multiple time zones. The interface of each door will show the number of existing First-Card Normal Open settings. For First-Card Normal Open setting, when adding or editing each record, it is not required to modify the "current door", but to select time zone. When record adding is successful, add personnel that can open the door for a First-Card Normal Open setting record. On the right of the interface, you can browse door opening personnel in a First-Card Normal Open setting and delete current personnel, so that some personnel will not have First-Card Normal Open level any more.

The operation steps are as follows:

- 1. Click [Set] under "First-Card Normal Open" of a door to show First-Card Normal Open setting interface;
- 2. Click [Add], select the time zone of First-Card Normal Open, and click [OK] to save the settings;
- 3. Click [Add an opening person] under "Related operation" to set personnel having First-Card Normal Open level.

Click [OK] to save and quit editing.

Note: For a door currently in Normal Open time period, consecutive verification of a person having access level for the door for 5 times (the person verification interval should within 5 second.) can release the current Normal Open status and close the door. The sixth person verification will be a normal verification. This function is only effective at the door valid time zone. Normal Open intervals set for other doors within the day and First-Card Normal Open settings will not take effect anymore.

6.3.3 Multi-Card Opening

This function needs to be enabled in some special access occasions, where the door will open only after consecutive verification by several people. Before verifying, any verification out of this combination (even the person belongs to other combination) will interrupt the procedure, and you need to wait 10 seconds to restart verifying. It will not open upon verification by one of the combination.

1. Multi-Card Opening Personnel Groups:

It is a personnel grouping. The group will be used for the setting of Multi-Card Opening.

(1) Click [Access Control System] - [Door Configuration] - [Multi-Card Opening

Personnel Groups] - [Add] to show the following edit interface:

Group name: Any character, up to a combination of 30 characters, which can not be identical with an existing group name;

After editing, click [OK], return and the added Multi-Card Opening Personnel Groups will appear in the list;

- (2) Select a group, and click [Add personnel] to add personnel to the group:
- (3) After selecting and adding personnel, click [OK] to save and return.

Note: One person can only belong to one group, and can not be grouped repeatedly.

2. Multi-Card Opening:

Set levels for personnel in [Multi-Card Opening Personnel Groups].

If currently [Multi-Card Opening Personnel Groups] is not configured, the system will prompt, and the user can only add combination name. The system permits the user to add a name-only combination, and to edit Multi-Card Opening combination when [Multi-Card Opening Personnel Groups] is added.

Multi-Card Opening combination is a combination of the personnel in one or more Multi-Card Opening Personnel Groups. When setting the number of people in each group, you can configure one group (such as combined door opening by two people in one group) or multiple groups (such as combined door opening by four people, including 2 people in group 1 and 2 people in group 2), and at least one group shall be entered a number of door opening people not being 0, and meanwhile the total number of door opening people shall not be greater than 5. In addition, if the number of people entered by the user is greater than the number of people in the current group, the Multi-Card Opening function will be unable to be realized normally.

Multi-Card Opening settings:

- (1) Click [Access Control System] [Door configuration] [Door management], click [Set] under "Multi-Card Opening" of a door in the door list to show the Multi-Card Opening setting interface;
- (2) Click [Add] to pop up Add Multi-Card Opening setting interface;
- (3) For Multi-Card Opening, the number of people for combined door opening is up to 5. That in the brackets is the current actual number of people in the group. Select the number of people for combined door opening in a group, and click [OK] to complete editing.

6.3.4 Interlock Settings

Interlock can be set for any two or more lock belong to one access control panel, so that when one door is opened, the others will be closed. And you can open one door only when others are closed.

Before interlock setting, please make sure the access controller is connected with door sensor according to the Installation Guide, and the door sensor has been set as NC or NO state.

Add interlock settings:

- 1. Click [Access Control System] [Door configuration] [Interlock settings] [Add] to enter the interlock setting edit interface;
- 2. Select device to show interlock settings. Since one device can only correspond to one interlock setting record, when adding, interlocked devices can not be seen in the dropdown list of the device. When deleting established interlock information, the corresponding device will return to the dropdown list. The setting page will vary with the number of doors controlled by the selected device:

A one-door control panel has no interlock settings;

A two-door control panel: 1-2 two-door interlock settings;

A four-door control panel: 1-2 two-door interlock, 3-4 two-door interlock, 1-2-3 three-door interlock, 1-2-3-4 four-door interlock;

3. Select interlock settings, tick an item (multiple interlocks can be selected as long as doors are not repeated), click [OK] to complete setting, and then the added interlock settings will be shown in the list.

For example, select 1-2-3-4 four-door interlock, if you want open door 3, doors 1, 2 and 4 needs to be closed

Note: When editing, the device can not be modified, but the interlock setting can be modified. If interlock setting is not required for the device any more, the interlock setting record can be deleted. When deleting a device record, its interlock setting record, if exist, will be deleted.

6.3.5 Anti-passback Settings

Currently anti-passback settings support in and out anti-passback. In some special occasions, it is required that the card holder who entered from a door by card punching must exit from the same door by card punching, with the entry and exit records strictly consistent. One who followed another to enter the door without card

punching will be denied when trying to exit by card punching, and one who followed another to exit without card punching will be denied when trying to enter by card punching. When a person enters by card punching, and gives the card to another to try entering, the other person will be denied. The user can use this function just by enable it in the settings. This function is normally used in prisons, the army, national defense, scientific research, bank vaults, etc.

Add anti-passback settings:

- 1. Click [Access Control System] [Door configurations] [Anti-passback settings] [Add] to show anti-passback setting edit interface;
- 2. Select device (N-door control panel), because one device can only correspond to one anti-passback setting record, so when adding, devices with anti-passback settings cannot be seen in the dropdown list. When deleting established anti-passback information, the corresponding device will appear in the dropdown list. The settings vary with the number of doors controlled by the device:

Anti-passback can be set between readers and between doors. The card holder enter from door A, he must exit from door B, this function is used for channel or ticket management.

Anti-passback settings of one-door control panel: Anti-passback between door readers;

Anti-passback settings of a two-door control panel:

Anti-passback between readers of door 1, anti-passback between readers of door 2, anti-passback between doors 1/2;

Anti-passback settings of a four-door control panel:

Anti-passback of doors 1-2, anti-passback of doors 3-4, anti-passback of doors 1/2-3/4, anti-passback of doors 1-2/3, anti-passback of doors 1-2/3/4, Anti-passback between readers of door 1, anti-passback between readers of door 2, Anti-passback between readers of door 4.

Note: The reader mentioned above includes Wiegand reader that connected with access control panel and inBIO reader. The single door and two door control panel with Wiegand reader include out reader and in reader. There is only in reader for four door control panel. The reader number of 1, 2 (that is RS485 address or device number, the same below) is for door 1, the reader number of 3, 4 is for door 2, etc. No need to consider if it is Wiegand reader or inBIO reader in setting of anti-passback between doors or between readers, just make sure the in or out state (means it is the in reader or out reader) and set according to the actual need. For the reader number, odd number is for in reader, and even number is for out reader.

3. Select anti-passback settings, and tick one item (anti-passback without repetition of doors or readers can be subject to multi-choice). Click [OK] to complete setting, and the added anti-passback settings can be shown in the list.

Note: When editing, you can not modify the device, but can modify anti-passback settings. If anti-passback setting is not required for the device any more, the anti-passback setting record can be deleted. When deleting a device record, its anti-passback setting record, if exist, will be deleted.

6.3.6 Linkage Setting

Linkage setting means when an event is triggered at an input point of the access control system, a linkage action will occur at the specified output point to control such events as verification, opening, alarm and exception of the system and list them in the corresponding monitored report for view by the user.

Add linkage setting:

- 1. Click [Access Control System] [Door configurations] [Linkage setting] [Add] to show the linkage setting interface;
- 2. Input linkage setting name (input linkage setting name before selecting device). After selecting device, corresponding linkage setting will appear (The system will first determine whether or not the device is successfully connected and has read extended device parameters such as auxiliary input quantity, auxiliary output quantity, door quantity and reader quantity. If the system has no available extended device parameters, it will remind the user of failing to set anti-passback. Otherwise, it will, shows linkage setting options according to the currently selected device, such as the door quantity, auxiliary input and output quantity):



The fields are as follows:

Trigger Condition: Please refer to <u>6.6 Real-time Monitoring</u> for the Real Time Events Description. Except Linkage Event Triggered, Cancel Alarm, Open Auxiliary Output, Close Auxiliary Output, and Device Start, all events could be trigger condition.

Input Point Address: Any, Door 1, Door 2, Door 3, Door 4, Auxiliary Input 1, Auxiliary Input 2, Auxiliary Input 3, Auxiliary Input 4, Auxiliary Input 9, Auxiliary Input 10, Auxiliary Input 11, Auxiliary Input 12 (the specific input point please refer to specific device parameters);

Output Point Address: Lock 1, Lock 2, Lock 3, Lock 4, Auxiliary Output 1, Auxiliary Output 2, Auxiliary Output 3, Auxiliary Output 4, Auxiliary Output 6, Auxiliary Output 8, Auxiliary Output 9, Auxiliary Output 10 (the specific output point please refer to specific device parameters);

Action Type: Close, Open, Normal Open. By default it is closed. To open, delay time shall be set, or Normal Close can be selected;

Delay: Ranges from 1-254s (This item is valid when the action type is Open)

Network video recorder: Select the network video recorder;

Bound Channel: Select the bound channel, channel 1-8 is optional.

Note: The network video recorder function is only available for 5.0.8 and above professional version, if you need to use, please contact with our commercial representative or for-sale supporter.

3. After editing, click [OK] to save and quit, and the added linkage setting will be shown in the linkage setting list.

For example: If select "Normal Punching Card Open" as the trigger condition, and the input point is Door 1, the output point is Lock 1, the action type is Open, the delay is 60s, then when "Normal Punching Card Open" occurs at Door 1, the linkage action of "Open" will occur at Lock 1, and door will be open for 60s.

Note: When editing, you can not modify the device, but can modify linkage setting name and configuration. When deleting a device, its linkage setting record, if exist, will be deleted.

If system has set that the input point is a specific door or auxiliary input point under a trigger condition of a device, it will not allow the user to add (or edit) a linkage setting record where the device and trigger condition are the same but the input point is 'Any'.

On the contrary, if the device and trigger condition are the same, and the system has

linkage setting record where the trigger point is 'Any', the system will not permit the user to add (or edit) a linkage setting record where the input point is a specific door or auxiliary input.

In addition, the system does not allow the same linkage setting at input point and output point in specific trigger condition.

The same device permits consecutive logical (as mentioned above) linkage settings.

Video linkage includes hard linkage and soft linkage. The hard linkage is same to the description before, the system will synchronize the setting information to access control panels. The access control panel (no matter it is offline or online) can execute the current linkage setting. The soft linkage is only applicable to the video linkage, after the system obtains a particular real-time event from access control panel, you can use the software to query the video data from the hard disk, and play on the interface.

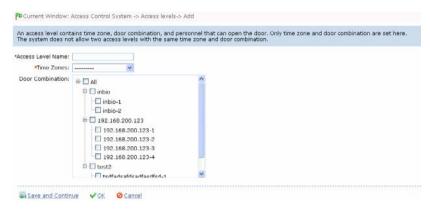
Note: The video linkage function is only available for 5.0.8 and above professional version, if you need to use, please contact with our commercial representative or for-sale supporter.

6.4 Access Levels

Access levels means in a specific time period, which door or door combination can be opened through verification. However, the personnel combination that can open these doors via verification shall be set in personnel access levels settings. Please refer to 6.5 Personnel Access Levels settings.

Add access levels:

1. Click [Access Control System] - [Access levels] - [Add] to enter Add access levels edit interface;



- 2. Set parameters: access level name (no repetition), access control time zones, door combination;
- 3. Click [OK] to complete setting and quit, and added access levels will appear in the list

Note:

- (1) Select the doors in the access levels as multi-choice, so you can select different doors in different control panels;
- (2) Two levels with the same time zone and door combination are not allowed in the system.

6.5 Personnel Access Levels

To assign access levels for the personnel to verify and get through, personnel access levels have two display modes:

Show by Access levels: Add/delete personnel for specific access levels.

Show by personnel: Add specified personnel into specified access levels, or delete specified personnel from specified access levels;

1. Add/delete personnel to levels:

- (1) Click [Access Control System] [Personnel access levels] [Shown by Access levels], and click a level, then personnel having opening levels in the access level will be shown in the list on the right;
- (2) Click [Add personnel] to pop up the Add personnel interface, select personnel to

create the list on the right, and click [OK] to complete adding, and added personnel will appear in the list on the right;

(3) Select personnel, click [Delete from access level] to delete the personnel from the access level.

Note: When adding personnel, if selected personnel exist in the current access level, the system can not add again.

2. Edit access level for personnel:

- (1) Click [Access Control System] [Personnel access level settings] [Shown by personnel] interface, click a person, and the list on the right will show the access level of the person;
- (2) Click [Add access level] to pop up edit interface, select access level, click [OK] to complete editing, and the list on the right will show the access level;
- (3) Select access level and click [Delete access level] to the person from the access level

6.6 Real-time Monitoring

Monitor the statuses and real-time events of doors under the access control panels in the system in real-time, including normal events and exceptional events (including alarm events).

1. Monitoring all:

The system will, by default, show the monitoring of all doors under the control panels within the current user's access level. The user can monitor one (or more) door(s) by [Area], [Control panel] or [Door].

Remote Opening/Closing: Including the operations of single door and all current doors. In single door operation, move the cursor to the door icon, click [Remote opening/closing] in the pop up menu. In all current doors operation, click [Close all current doors] in the main interface to fulfill the operation.

When you remote close the door, self-define the open time interval is enabled, 15 seconds by default. You can select [Enable Intraday Normal Open Time Zone], and the normal open time zone intraday will take effect. You can also set the door state to normal open directly, and no time zone intraday can effect the door state any more (namely normally open for 24 hours).

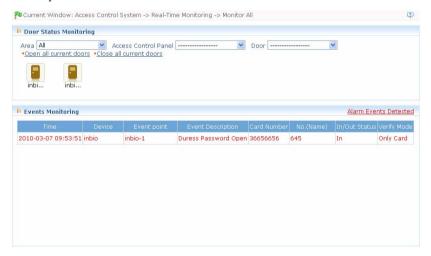
If you want to close the door, please select [Disable Intraday Normal Open Time Zone] first, to avoid other normal open time zones take effect and open the door.

And then select [Remote Closing] to fulfill the operation.

Note: If the operations of remote opening/closing always return failure, please check the current list of devices. If there are too many offline devices, you need to check the network to ensure the operation proceed normally.

Cancel all alarms: Once alarming doors appear on the interface, the system will alarm. Click to cancel the alarms of the control panels for alarming doors. If Cancel Alarms is successful, the system will automatically stop alarming.

Note: If a control panel have multiple door alarms at the same time, you need only execute one cancel operation at one of these door to cancel all the alarm in this control panel.



Upon Door Status Monitoring, if the number of doors on the current interface <=64, the system will, by default, show the doors in pictures to monitor door statuses. Once the number exceeds 64, the system will automatically list the doors.

When putting the cursor on a door, it will show relevant parameters and operations: device, door number, door name, remote opening, and remote closing. Icons in different colors represent statuses as follows:



Status	Door alarming	Door closed when online	Door opened when online	Door sensor unset	Device banned	Door Offline	Door opening timeout
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Personnel photo display:

If there is a person concerned in the real-time monitoring, and the corresponding photo is set before, then the photo will be displayed in real-time monitor. And the event name, trigger time, person name will be displayed on the photo.

Event monitoring:

The system automatically acquires monitored device event records, including normal access control events and exceptional access control events (including alarm events). Alarm events appear in red. Exceptional events excluding alarm events appear in orange. Normal events appear in green.

Meanwhile, when an alarm event record appears on the event monitoring interface, the "Find alarm event" prompt will appear on the upper right corner. After the user clicks the link, the system will redirect to the alarm event monitoring interface by opening a new window (or tab page).

On the current event monitoring interface, the recent records are on the top, enabling the user to see without dragging the scrollbar. Meanwhile, the interface will show up to some 50 records

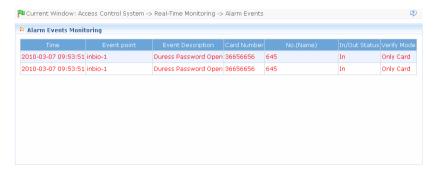
Click [Find alarm event] on the upper right corner to access [Alarm event] interface, and the user will see alarm events monitored in [Event monitoring] before page turn and alarm events after the current time point.

2. Alarm event:

Alarm event records are actually part of exception records, namely, alarm event records in exception records.

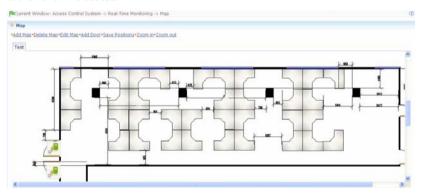
Alarm event monitoring only monitors alarm events acquired in system, and only monitors alarm events after the time of accessing the interface.

The alarm event monitoring list is shown below:



3. Electro-Map

Before using the electro-map, user needs to add the map to the system first. After success adding, user can add door, zoom-in, zoom-out the map (and the door on the map), etc. If the user changes the door icon, or the map, or the position of door icon, click [Save Position] to save the current position, then the user can view the setting at the next time access.



Add Map and **Delete Map:** User can add or delete the map as needed.

Edit Map: User can change the map name, change map or change the area it belongs to.

Adjust map (includes door): User can add a door on the map, or delete an exist one (right click the door icon, and select [Remove Door]), or adjust the map or position of the door icon (by drag the door icon), adjust the size of the map (click [Zoom in] or [Zoom out]).

Real-time door status monitoring: Except to display the electro-map, the system can view the real-time event monitoring (same data source with door status

monitoring, include alarm sound, etc.).

Door operation: Move the mouse icon to the door position, the system will automatically filter the operation according to the door status and display them on the popup menu. User can remote open or close the door, cancel alarm, and etc.

User right control:

- (1) In adding process, user needs to select the belonging area for map. The area set here is relevant to the user management rights, that is, the user can only view or manage the map under his rights. If the user modify the belonging area of a map, all door on that map will be cleared, and need to add again.
- (2) When the administrator add a new user, he can manage the user operation rights by role setting, such as the operation of [Save door position], [Zoom in], [Zoom out], etc.



- (1) In map modification, the user can select to modify the map name but not the path, only need to cancel the tick before [Modify Path].
- (2) The system supports to add multi door at the same time. After door adding, user needs to set the door position on the map, and click [Save] after setting.
- (3) In door position modifying, especially zoom in the map, the margin of upward and leftward should be smaller than 5 pixels. The system will prompt error if the margin smaller than this value.
- (4) The system recommend adding map size under 1120 pixels * 380 pixels. If the multi clients access the same server, the display effect will be differed according to the resolution of screen and the setting of the browser.

Appendix: Real-Time Event Description (the fingerprint events are only available for 5.0.8 and above version):

1. Normal Events:

Normal Punch Open: In [Card Only] verification mode, the person has open door permission punch the card and trigger this normal event of open the door.

Press Fingerprint Open: In [Fingerprint Only] or [Card plus Fingerprint] verification mode, the person has the open permission, press the fingerprint at the valid time period, and the door is opened, and triggers the normal event.

Card plus Fingerprint Open: In [Card plus Fingerprint] verification mode, the person has the open permission, punch the card and press the fingerprint at the valid time period, and the door is opened, and triggers the normal event.

Exit button Open: User press the exit button to open the door within the door valid time zone, and trigger this normal event.

Punch during Normal Open Time Zone: At the normally open period (set to normally open period of a single door or the door open period after the first card normally open), or through the remote normal open operation, the person has open door permission punch the effective card at the opened door to trigger this normal events

Press Fingerprint during Normal Open Time Zone: At the normally open period (set to normally open period of a single door or the door open period after the first card normally open), or through the remote normal open operation, the person has open door permission press the effective fingerprint at the opened door to trigger this normal events

First Card Normal Open (Punch Card): In [Card Only] verification mode, the person has first card normally open permission, punch card at the setting first card normally open period but the door is not opened, and trigger the normal event.

First Card Normal Open (Press Fingerprint): In [Fingerprint Only] or [Card plus Fingerprint] verification mode, the person has first card normally open permission, press the fingerprint at the setting first card normally open period but the door is not opened, and triggers the normal event.

First Card Normal Open (Card plus Fingerprint): In [Card plus Fingerprint] verification mode, the person has first card normally open permission, punch the card and press the fingerprint at the setting first card normally open period but the door is not opened, and triggers the normal event.

Normal Open Time Zone Over: After the setting normal open time zone, the door will close automatically. The normal open time zone include the normal open time zone in door setting and the selected normal open time zone in first card setting.

Remote Normal Opening: Set the door state to normal open in the remote opening operation, and trigger this normal event.

Cancel Normal Open: Punch the valid card or use remote opening function to cancel the current door normal open state, and triggers this event.

Disable Intraday Normal Open Time Zone: In door normal open state, punch the effective card for five times near to the card reader (must be the same user), or select [Disable Intraday Normal Open Time Zone] in remote closing operation, and trigger this normal event.

Enable Intraday Normal Open Time Zone: If the intraday door normal open time zone is disabled, punch the effective card for five times near to the card reader (must be the same user), or select [Enable Intraday Normal Open Time Zone] in remote

opening operation, and trigger this normal event.

Multi-Card Open (Punching Card): In [Card Only] verification mode, multi-card combination can be used to open the door. After the last piece of card verified, the system trigger this normal event.

Multi-Card Open (Press Fingerprint): In [Fingerprint Only] or [Card plus Fingerprint] verification mode, multi-card combination can be used to open the door. After the last fingerprint verified, the system trigger this normal event.

Multi-Card Open (Card plus Fingerprint): In [Card plus Fingerprint] verification mode, multi-card combination can be used to open the door. After the last card plus fingerprint verified, the system trigger this normal event.

Multi-Card Open (Press Fingerprint): In [Card Only] verification mode, multi-card combination can be used to open the door. After the last fingerprint verified, the system trigger this normal event.

Multi-Card Open (Card plus Fingerprint): In [Card Only] verification mode, multi-card combination can be used to open the door. After the last card plus fingerprint verified, the system trigger this normal event.

Emergency Password Open: The password (also known as the super password) set for the current door can be used for door open. It will trigger this normal event after the emergency password verified.

Open during Normal Open Time Zone: If the current door is set a normally open period, the door will open automatically after the setting start time, and trigger this normal event.

Linkage Event Triggered: After the system linkage configuration take effect, trigger this normal event.

Cancel Alarm: When the user cancel the alarm of the corresponding door, and the operation is success, trigger this normal event.

Remote Opening: When the user opens a door from remote and the operation is successful, it will trigger this normal event.

Remote Closing: When the user close a door from remote and the operation is successful, it will trigger this normal event.

Open Auxiliary Output: In linkage action setting, if the user select Auxiliary Output for Output Point Address, select Open for Action Type, it will trigger this normal event when the linkage setting is take effect.

Close Auxiliary Output: In linkage action setting, if the user select Auxiliary Output for Output Point Address, select Open for Action Type, it will trigger this normal event when the linkage setting is take effect. And if the user closes the

opened auxiliary output through the [Close Auxiliary Output] operation in [Door Setting], trigger this normal event too.

Door Opened Correctly: When the door sensor detects that the door has been properly opened, triggering this normal event.

Door Closed Correctly: When the door sensor detects that the door has been properly closed, triggering this normal event.

Auxiliary Input Disconnected: When the auxiliary input point disconnected, trigger this normal event.

Auxiliary Input Shorted: When the auxiliary input point short circuit, trigger this normal event.

Device Start: When the device start trigger this normal event, and this event can not display on the real-time monitor, but you can check it in the event report.

2. Abnormal Events

Too Short Punch Interval: When the interval between two card punching is less than the set time interval, trigger this abnormal event.

Too Short Fingerprint Pressing Interval: When the interval between two card punching is less than the set time interval, trigger this abnormal event.

Door Inactive Time Zone (Punch Card): In [Card Only] verification mode, the user has the door open permission, punch card but not at the door effective period of time, and trigger this abnormal event.

Door Inactive Time Zone (Press Fingerprint): The user has the door open permission, press the fingerprint but not at the door effective period of time, and trigger this abnormal event.

Door Inactive Time Zone (Exit Button): The user has the door open permission, punch card but not at the access effective period of time, and trigger this abnormal event.

Illegal Time Zone: The user with the permission of opening the current door, punches the card during the invalid time zone, and triggers this abnormal event.

Access Denied: The registered card without the access permission of the current door, punch to open the door, trigger this abnormal event.

Anti-Passback: When the anti-pass back setting of the system takes effect, triggers this abnormal event.

Interlock: When the interlocking rules of the system take effect, trigger this abnormal event

Multi-Card Authentication (Punching Card): Use multi-card combination to open the door, the card verification before the last one (whether verified or not), trigger this normal event.

Multi-Card Authentication (Press Fingerprint): Use multi-card combination to open the door, the fingerprint verification before the last one (whether verified or not), trigger this normal event.

Multi-Card Authentication (Punching Card): Use multi-card combination to open the door, the card verification before the last one (whether verified or not), trigger this normal event

Multi-Card Authentication (Press Fingerprint): In [Fingerprint Only] or [Card plus Fingerprint] verification mode, use multi-card combination to open the door, the fingerprint verification before the last one (whether verified or not), trigger this normal event.

Unregistered Card: Refers to the current card is not registered in the system, trigger this abnormal event.

Unregistered Fingerprint: Refers to the current fingerprint is not registered or it is registered but not synchronized with the system, trigger this abnormal event.

Opening Timeout: The door sensor detect that it is expired the delay time after opened, if not close the door, trigger this abnormal event.

Card Expired: The person with the door access permission, punch card to open the door after the effective time of the access control, can not be verified and will trigger this abnormal event.

Fingerprint Expired: The person with the door access permission, press fingerprint to open the door after the effective time of the access control, can not be verified and will trigger this abnormal event.

Password Error: Use card plus password, duress password or emergency password to open the door, trigger this event if the password is wrong.

Failed to Close during Normal Open Time Zone: The current door is in normal open state, but the user can not close the door through [Remote Closing] operation, and trigger this abnormal event.

3. Emergency Events

Duress Password Open: Use the duress password of current door verified and triggered alarm event.

Opened Accidentally: Except all the normal events (normal events such as user with door open permission to punch card and open the door, password open door, open the door at normally open period, remote door open, the linkage triggered door

open), the door sensor detect the door is opened, that is the door is unexpectedly opened.

Duress Fingerprint Open: Use the duress fingerprint of current door verified and triggered alarm event.

6.7 Access Control Reports

Includes [All access control events], [Access control exception events] and [Personnel access levels] reports. You can select Export all and Export after query.

The user can generate statistics of relevant device data from access control reports, including card verification information, door operation information, and normal card punching information, etc.

About the Normal event and abnormal event please refer to <u>6.6 Real-time</u> Monitoring for details.

Abnormal Event: Too Short Punch Interval, Door Inactive Time Zone (Punch Card), Door Inactive Time Zone (Exit Button), Illegal Time Zone, Access Denied, Anti-Passback, Interlock, Multi-Card Authentication, Unregistered Card, Opening Timeout, Card Expired, Password Error, Failed to Close during Normal Open Time Zone, Duress Password Open, Opened Accidentally, and Duress Password Open and Opened Accidentally are emergency events.

Verify mode: Only Card, Only Password, Only Fingerprint, Card plus Password, Card plus Fingerprint, Card or Fingerprint and etc.

Note: Only event records generated when the user uses emergency password to open doors will include [Only password] verification mode.

All access control events

Because the data size of access control event records is large, you can view access control events as specified condition when querying. By default, the system shows the report of all access control events:



Clear all event records:

Click [Clear all event records] to pop up a prompt. Click [OK] to clear records.

Set the time for obtaining new entries:

Click [Set the time for obtaining new entries] to pop up a time-setting dialog, and click [OK] to finish setting after inputting the time.

Note: The user should ensure that the server is power on at that time he set.

The software can only obtain new entries on the hour and the range of the time is 0-23. After finished, the user will need to restart the software services by using [Services Controller], or the server, to submit the change.

♣ Access control exception events

You can view access control exception events in specified condition. The options are same as those of [All access control events].



Clear access control exception event records: Clear the list of all access control exception events.

Personnel access level

View all access levels according to access level group, door or personnel. Select the query mode, and the condition in the left data list, the corresponding result will display on the right data list.

For example, select "By Access Level", the data list on the left side show all access levels, select a access level, the personnel under this access level will display on the right data list.



7. Video System (For 5.0.8 and above Professional Version)

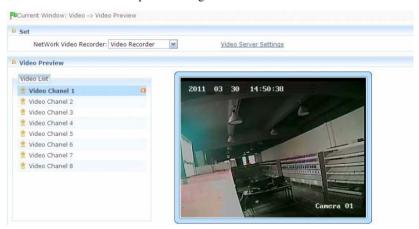
The system provide video linkage function, to manage the network video recorder, view the real-time video, and query the video record, popup the real-time video when the linkage events happened.

When using the video linkage function, the user need to add a network video recorder firstly, for detailed operation, please refer to 5.2.2 Add Network Video Recorder. After adding, the user need to set video linkage in linkage settings (set the network video recorder and bound channel), then the user can view the real-time monitor video in the system. The detailed setting, please refer to 6.3.6 Linkage Setting.

Note: The current software version only supports Hikvision embedded network DVR, such as DS-91xx series, DS-81xx/71xx/72xxHV series, DS-80xx/70xx/72xxH series, and DS-78xx/88xx series. The recommended model is DS-7808H-ST-AF-DVR-II-B/.8-4, for other model to use in the system, please contact Hikvision technician.

Video Preview:

Enter [Video]-[Video Preview], open the video preview interface, select the preview channel to view the remote preview image.



Double click the image, enter the full screen mode.

Double click the image, or click [Windows] icon on your keypad, or press Ctrl+ESC to exit the full screen mode.

Linkage Video Records:

Enter [Video]-[Linkage Video Records], to query or playback the linkage video records.



Select the corresponding control panel, door or network video recorder, input the start and end time, click [Search the Video] button. If the record matches the condition, the record number and name will display on the list, and the play and stop operation is permitted.

Click [Play] button, the video will playback on the right interface, click [Stop] to stop it.

The full screen operation is as the description above.

Alarm Preview:

After setting the linkage event, if the real-time linkage event happens, the preview interface will pop up in the real-time monitor interface.



8. System Settings

System settings primarily include assigning system users (such as company management personnel, registrar, access control administrator) and configuring the roles of corresponding modules, managing database, such as backup, initialization, and setting system parameters and operation logs, etc.

8.1 User Management

1. Role management:

During daily use, the super user needs to assign new users having different levels. To avoid individual setting for each user, roles having certain levels can be set in role management, and then be assigned to specified users, including the levels set for five major functional modules of personnel, device, access control, video system and system setting. The system's default super user has all levels, and can create new users and set corresponding levels as required.

Role setting steps:

(1) Click [Add] to enter role setting interface;



- (2) Set role name, select your desired role setting item, and tick levels to be configured for users of different levels;
- (3) After setting, click [OK] to save and return to the list, and added role settings

will be shown in the list.

2. User management:

Add new users to the system, and assign user roles (levels).

Add user:

1. Click [Add], enter new user information, where items with [*] are mandatory. The parameters are as follows:

Current Window: Sys	tem -> User-> Add
If check box 'Staff statu	s' is not selected then the user will be disabled and cannot log in to the system!
*Username:	Required. 30 characters or fewer. Letters, numbers and @/,/+/ characters
*Password:	The length range is 4 to 18 digits. The default password is 111111.
*Confirm Password:	The length range is 4 to 18 digits. The default password is 111111.
First name:	
Last name:	
E-mail address:	
Staff status:	Designates whether the user can log into this admin site.
Superuser status:	Designates that this user has all permissions without explicitly assigning them.
Fingerprint Registration	
Save and Continue	✓ OK Ø Cancel

Username: Not more than 30 characters, only using letters, numbers or characters;

Password: The length must be more than 4 digits and less than 18 digits. The default password is 111111;

Authorize Department: If you select no department, you will possess all department rights by default;

Authorize Area: If you select no area, you will possess all area rights by default;

Enter First Name, Last Name and E-mail Address:

Staff Status: Indicates if this user can access the administrator site:

Super user status: Designates that this user has all permissions without explicitly assigning them. Tick it to be a super user without selecting a role:

Select **Role:** Non-super user needs to select a role. By selecting a preset role configuration, this user will have the levels configured for the role.

Fingerprint Registration: Enroll the user fingerprint or duress fingerprint. The user can login the system by pressing the enrolled fingerprint. If the user presses the

duress fingerprint, it will trigger the alarm and send the signal to the system.

2. After editing, click [OK] to complete user adding, and the user will be shown in the list

To modify existing user, click [Edit] behind the user name, and enter edit interface. After modification, click [OK] to save and return.

8.2 Database Management

The homepage of the system shows database backup history. The system allows database backup, restoration and initialization.

1. Database backup path configuration:

Select [Database backup path configuration] in the [Server Controller] operation menu, the edit interface appears.

Click [Browse] to select the backup path, click [Save] to save the selection and quit.



Note:

- (1) In software installation process, it will prompt to set the database backup path. If you haven't set the backup path, the operation of backup database can't be executed (The server for other computer to access, need to set the backup path in the server firstly).
- (2) Proposal that the database backup path and the present system installed path not be under the same disk. Don't set the path to the root of a disk, and no blanket permitted.

2. Backup database:

Periodically backup the system's database to ensure data security. To use the backed up data, just restore the data.

- (1) Click [Backup database] to enter the backup interface;
- (2) Select the operation: backup now, scheduled backup and cancel scheduled backup. Scheduled backup can set backup every several days since a start time;
- (3) Click [OK], the system will pop up the database backup path prompt. For Backup now, it will return after backup. For scheduled backup, it will backup as scheduled.



- (1) After database backing up, the value under "Whether backup successful" will change to "Yes" or "No". "Yes" indicates database backing up successfully, otherwise, the back up operation is failed.
- (2) We recommended backing up the database after you create the personnel file, device information or part of access control level settings.
- (3) The system not support to backup Oracle database, if you need to backup, please uses the specific Oracle backup tools.

3. Restore Database

Select [Restore Database] in the [Server Controller] operation menu, the following interface appears.

Click [Browse] to select a successfully backed up database from the backup database list, click [Start] begin the database restoration.

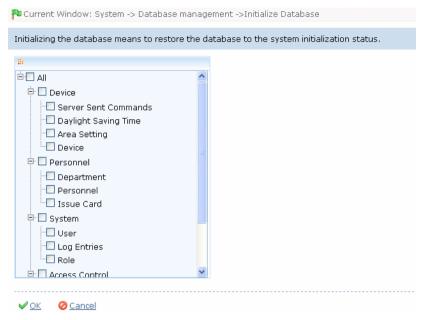


- (1) Don't close any command window prompt during the database restore process.
- (2) On the same server, please don't plan multiple scheduled backup to avoid adding to the server load.

4. Initialize database:

Initialize database is to restore data to system initialization status. Initialized data in the database will be deleted. Please operate with care.

Click [Initialize database] to enter edit interface, select one or several datasheets to initialize, and click [OK] to complete initialization and return.



For example:

Select to initialize access level: After selection, it will initialize access control time periods, access control holidays and access levels. All contents on these three pages will restore initial statuses;

Select to initialize door settings: After selection, it will initialize all interlock settings, anti-passback settings, linkage settings, first-card opening settings, and multi-card opening settings (including personnel group of multi-card verification);

Select to initialize events: After selection, it will initialize all real-time monitoring records:

Select to initialize access control: After selection, it will initialize all settings and information in the access control system, including the above three items, and only reserve system default settings;

Select to initialize devices: After selection, it will initialize all device information in the system (including access control). If the device is an access control panel, corresponding device parameters and door information will be deleted.

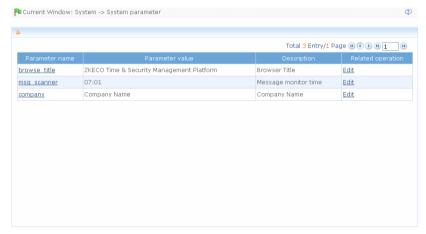
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Note: If the device is still in normal use, please initialize database cautiously,

especially when involving access level-related departments and personnel, access levels, door settings, areas, devices, users and roles. It is recommended that if there are still devices in use after database initialization, the user shall [Synchronize all data] for the setting to avoid unexpected errors.

8.3 System Parameters

The system homepage shows the system parameter list: Parameter name, Parameter value, Description, and Related operation.



8.4 Log Records

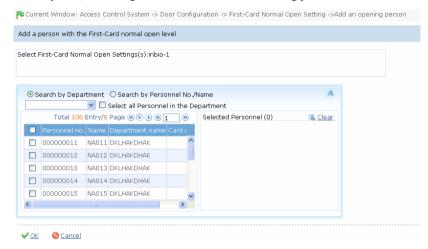
The default homepage of system log records shows log records of all operations. Since large data size, you can use query function to search desired log records. For details, see Appendix 1 Common Operation.

9. Appendices

Appendix 1 Common Operation

1. Personnel selection

In this system, this dialog box is used for all modules using personnel selection:



You can search personnel in two ways:

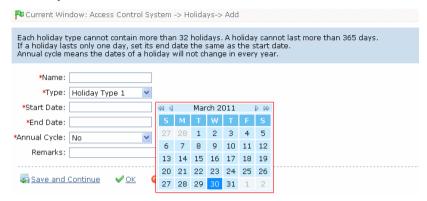
- 1) Search by department. Tick the check box before a department in the department list of the pull-down menu to select all personnel of the department. If [Select all personnel under the department] is ticked, all personnel in the department will be selected and shown in the list box of the currently selected personnel;
- 2) Search by personnel number/name. Enter the name or employee number of the person to be selected in the query box, and click query to show the eligible person in the list box.

When personnel are selected into the list box, if it is required to delete one or more persons, just cancel the tick of the check box before the personnel. To select or unselect all personnel in the list, click the 'Select all' check box under the list.

To cancel all personnel for reselection, click Clear.

2. Select date

Click the pull-down menu to select date:

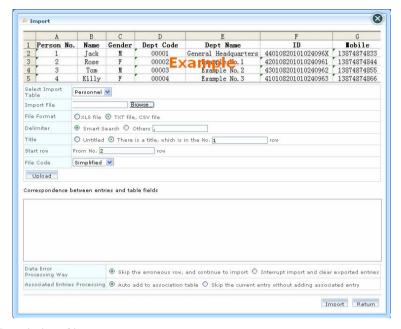


Click on year to activate the scroll button for year selection, and click of button to select an earlier or a later year. Click of or button to select an earlier or a later month, and click the desired date.

3. Import (taking importing personnel table as an example):

If there is an electronic personnel file, which may be the information of the personnel or access control, attendance or human resources system of another brand, you can import it into this system through the [Import] function.

(1) Click [Import] to show the import edit interface:



Description of items:

Select import table: Currently the system supports the import of department table and personnel table;

Import file: Click [Browse] to select the file to be imported;

File format: Select the format of the file to be imported:

Delimiter: The user select from smart search or others, such as comma, semicolon or blank:

Title: Select and set whether or not the original file contains a title. If so, enter which row the title is in;

Start row: The row from which importing starts (namely, which row of the original file the data in the first row is in);

File code: Select the code that the original file uses, being Simplified Chinese, Traditional Chinese or utf8;

Data error processing way: Select "skip the erroneous row, and continue to import", or "interrupt import and clear imported entries";

Associated entry processing: Select "auto add to associate table" or "skip the current entry without adding associated entry".

- (2) Click [Browse] to select the file to be imported;
- (3) Click [Open] button, and the file format will be automatically shown. Determine delimiter, title, start row and file code, and click [Upload] to display the uploaded file items.
- (4) In the table [correspondence between entries and table fields], [file header] is an item row in the original file, [file record] is a data row in the original file, [table field] is an item in the current system. Select corresponding fields in the system from pull-down menus, and unwanted data can be unchecked.
- (5) Select data error processing way and associated entry processing, click [Import], and the system will automatically start importing data. When the system prompts that data import is successful, the newly imported data will be shown in the personnel list.

Note:

- (1) When importing department table, repeated numbers do not affect import, and can be modified manually;
- (2) When importing personnel table, if there is no personnel number or personnel number is "0", the import operation can't execute. If you need import the personnel gender, please use "M" represent male and "F" represent female, then execute import operation.

4. Export data (taking exporting personnel list as an example):

(1) Click [export] to show the edit interface;

When the data size is large, it is recommended to select [Select number of entries to export] to expedite export and reduce system load.

(2) Select the format of exported file: If PDF format is selected there will be no file code option (namely, no differentiation between Simplified and Traditional Chinese). Click [Export] to directly show the exported file.

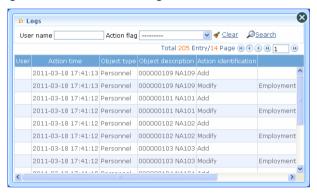
If TXT or CSV format is selected, then file codes include Simplified and Traditional Chinese, but Traditional Chinese code can be completely exported only in the operating system in Traditional Chinese. The system prompts Open or Save:

Select [Open] to directly show the list. Select [Save] to pop up the [Save as] dialog box. Determine file name and save type, and select save path. Select [Cancel] to return.

(3) Return to the initial edit interface, and click [Return] to return to the personnel interface.



- (1) When importing department table, repeated numbers do not affect import, and can be modified manually;
- (2) Exported table is the list currently shown, being the list of queried or displayed result:
- (3) Up to 10,000 latest records can be exported.
- 5. View log records (taking personnel log as an example):
- (1) Click log records to show the following:



(2) Enter query condition, click [query] to show the list, click [Clear], clear query condition, and return to the initial interface.

Note:

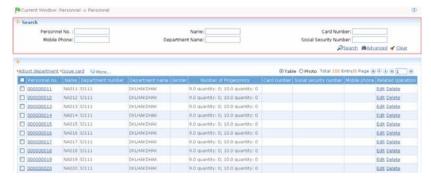
- 1. The log records only show the operation log in the current operation module;
- 2. Log records under some operation menus can be viewed only when entering the edit interface.

For example, from [Access Control System] - [Door Configuration] - [Door Management], click [Edit] under "Related operation" of a device to enter the edit interface, and click [Log records] on the upper right corner of the interface to view the operation log.

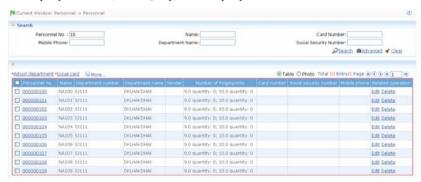
6. Query function (taking personnel information query as an example):

Common query: The user can directly select the item to be queried from [Common query] on my work panel, or enter a module for specific query.

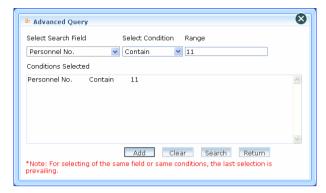
Take personnel query as an example:



Enter query condition, click Query, and the query result will be shown below:



Advanced query: Click [Advanced] icon to show advanced query interface (taking personnel information advanced query as an example).



- (1) Select the query field in the [Select query field] pulls down menu;
- (2) Select the condition in the pull down menu such as equal to null, contain, meet any, equal to etc.
- (3) Input the query value in the [Range] field;
- (4) Click [Add] to add this query information to the [Selected condition] list, the multiple choice of query condition is allowed. But one field and one condition can be selected only once.

Click [Query], the query result display on the list.



The query functions of each menu in the system are similar, differing in that query conditions are different, and the user can enter as prompted.

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Appendix 3 FAQs

Q: How can my work panel be unique?

A: The user can customize the work panel: 1. Click [Custom work panel] to pop up a dialog box, cancel the tick of your undesired module (by default the system ticks all), and Confirm. Then the custom module will appear; 2. Or directly click the "—]" icon on a module to minimize, and click "——" to close the module. Click the column bar to drag and adjust the module's position; 3. If required to return to the default work panel, click [Restore work panel] to refresh and return to the system default.

O: How to use a card issuer?

A: Connect the card issuer to PC through USB port, and then select individual personnel card issue or batch card issue. Move the cursor to the card number input box, and punch the card on the card issuer, then the card number will be automatically shown in the input box.

Q: What is the use of role setting?

A: Role setting has the following uses: 1. To set unified level for the same type of users newly added, just directly select this role when adding users; 2. When setting system reminder, and determine which roles can be viewed.

Q: How to operate if I want to set accounts for all personnel of the Company's Financial Department?

A: First, create a new role in system setting and configure the functions to be used for this role. Then add a user, set user information, and select the user's role, thus adding a new account. For other accounts, do the same.

Q: What is the use of blacklist?

A: A blacklisted personnel can not achieve departure restoration, namely, this person can not be employed by the Company any longer. To modify, just modify departure information on the departure interface.

Q: How to adjust the department of a person?

A: There are the following ways to adjust personnel department: 1. In personnel list, click personnel number or click "Edit" under related operation item to show personnel details, and modify personnel department in the department item; 2. In personnel list, check the personnel requiring department adjustment, click "Adjust department", and a dialog box will pop up, then modify the department; 3. On personnel transfer interface, click Add to pop up the edit interface, select personnel, and check department in the transfer field, and complete other information, thus

completing transfer.

Q: How to set access levels for visitors?

A: Setting access levels is as follows: 1. In the system, add these personnel, and enter relevant information; 2. Select access levels suitable for them. If there are no suitable levels, it is required to enter the access control system to add relevant settings; 3. Set valid time, namely, the start and end dates when they need to use access levels.

Q: What are the ways to cancel personnel access control settings?

A: There are the following ways to cancel personnel access control settings: 1. Close access control only: In the personnel list, click personnel number or click "Edit" under related operation item to show personnel details, and delete access levels and Personnel Group of Multi-Card Verification in access control settings; 2. Delete personnel: In the personnel list, click "Delete" under related operation item of personnel, or tick a personnel and click the "Delete" above to delete this person from the system. Corresponding access control information will be deleted; 3. In "Personnel access levels settings", delete access levels of personnel, and in "Personnel Group of Multi-Card Verification", delete Multi-Card Opening levels.

Q: How to set access control holidays?

A: Access control holidays have three types of 1, 2 and 3. Take New Year's Day as an example: 1. In access control holidays, add a holiday of "New Year's Day". Set the holiday type as 1, and the start and end dates of the holiday are both January 1; 2. During the access control time period, add an access control time zone, set the three access control intervals of this holiday type 1. For example, set access control interval 1 as 8:00-20:00, and intervals 2 and 3 as null, namely Normal Close; 3. Apply this access control time zone to access levels; 4. Set personnel with levels for the access levels.

Q: In Windows Server 2003, why the IE browser displayed error when access the system, how to solve it?

A: This problem occurs because that Server 2003 has [Security Configuration Option] settings. If you want access the system, please configure it as follows: click Start – Control Panel – Add or Remove Program, select [Add and remove Windows components] in the interface and click [Internet Explorer Enhanced Security Configuration] option, cancel the tick before it. Then click [Next] to remove it from the system. Open the system again the browser will access the system properly.

Q: If backing up or restoring the database fails, the possible reason?

A: Please check the system environment variables [path], if the database installation path (For example, MS SQL Server installation path maybe is: C:\Program Files\Microsoft SQL Server\90\Tools\Binn; For MySQL, it is like: C:\Program

Files\MySQL\MySQL Server 5.1\bin) is exist. If not, you need to add it manually. Otherwise, the antivirus or firewall software may stop the execution of backing up or restoring command, if the security prompt pops up, please select "Always Permitted". And the damaged database can also lead to backup error, please repair or restore the database.