

User Manual ZKAccess3.5 Security System

Version: 3.5.3 Build0001 and above version Supports Pull SDK V2.2.0.205 and above version Supports Standalone SDK V6.2.5.31 and above version

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Definitions

Super User: The user who has all operation levels of the system, who 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 setting individual levels 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 for certain doors and unusable during other time periods. Time zone can also be used to set Normal Open time periods for 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 the lock drive duration.

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

Lock Drive Duration: Used to control the delay for unlocking after press fingerprint or 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 expires.

Multi-Card Opening: This function needs to be enabled in some special access occasions, where the door will open only after the consecutive verification of multiple people. Any person verifying outside of the defined combination (even if the person belongs to other combinations) will interrupt the procedure, requiring a 10 seconds wait to restart verification.

Interlock: Can be set for any two or more locks belonging to one access control panel, so that when one door is opened, the others will be closed, allowing only one door to be open at a time.

Anti-pass Back: Currently anti-passback settings support in and out anti-passback. In some special occasions, it is required that the one who verify and enter from a door must exit and verify from the same door, with the entry and exit records strictly consistent. For example, anti-passback between door 1 and door 2: If someone enters from door 1 and then must exit from door 2; If someone enters from door 2 and then must exit from door 1.

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, alarming 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

Security Management has increasing concerns for modern enterprises. This management system helps customers to integrate operation of safety procedures on one platform, making access control management easier and more practical so as to improve efficiency.

System Features

1. Powerful data processing capacity, allowing the management of the access control data for 30,000 people. And supports connect 100 devices for standard configuration.

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.

& 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 system installation directory (NTFS hard disk partition has the better performance and higher security).

Operating System:

Supported Operating Systems:

Windows XP/Windows 2003/Windows Vista/Windows7/8/8.1

Supported Databases:

MS SQL Server2005/Microsoft Access

& 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 operations such as remote monitoring, uploading and downloading can be performed in the system.

≪Note:

Digital Vein function displayed on the "Device" and "Personnel" interface in system.

Access Control System: C/S Frame-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.

System Settings: Primarily used to assign system users and configure the roles of corresponding modules, database management 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, the user just needs to follow the steps below and skip the items which are not displayed on their interface.

Step 1: Add Device.

Step 2: Add Personnel.

Step 3: Add Access Control, includes Time Zones, Holidays, Door Setting, Access Levels.

Step 4: View Real-time Monitoring and Reports.

1.3 Select Language

Enter into the [**System**] menu, click [**Select Language**], it will popup Chinese and English, Choose the language what you need, and then restart the system to make it take effect.

2. System Management

1. Log in to the System

(1) Double click the [Access3.5 Security System] shortcut on the desktop, the following homepage pops up.

Access	\otimes
admin	*
2 ****	*
Remember Me	
Login	

(2) For system security, it is required to verify identity before accessing the system. We will provide a super user (having all operation levels) for the beginner of this system. Enter user name and password, and click [OK], to enter the system.

(3) Check the [remember me] option, save the user name and password, for direct login next time. click [log in] after inputted.

≈Note:

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

The super user can assign company personnel as system users to (such as company management personnel, registrar, and access control administrator) and configure the roles of corresponding modules. For details, see <u>8.1 User & Role Management</u>.

2. Quit the system:

Click the 🚫 button on the upper right corner of the interface, directly to quit the system.

3. Modify Password:

The super user and the new user created by the super user (the default password for the new user is "admin") 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.

3. Navigation

After the user logs in to the system, it will show the [Navigation] main interface, Or click [System]>[navigation] interface. Follow up, you can also click **Access** on the upper left corner of the icon to switch to the interface. Click the navigation icon will switch to the corresponding processing interface.



4. Personnel System Management

Before using the system's access control management functions, first access the personnel system

for configuration.

Step 1, Department Management settings, used to set the company's organizational chart.

Step 2, Personnel Management settings, used to input personnel, assign departments, and maintain and manage personnel.

Step 3, set the Access Control Levels.

4.1 Department Management

Before managing company personnel, it is required to describe and manage the company departmental organization chart. 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 cannot be deleted.

Main functions of Department Management include Add Department and Department Maintenance.

1. Add Department:

(1)Click [Personnel] > [Department] > [Add] to show the Add Department interface. Another way through the import, the other systems or information in the Department of information into the system, the specific operation, please refer to the 9.1 common operation.

휜 Add			
Department Name			*
Department Number			*
Parent Department	company	•	*
	ОК	Cancel	

The fields are as follows:

Department name: Any character, up to a combination of 50 characters.

Department number: If required, it shall not be identical to another department. The length shall not exceed 50 digits. Click [Verify] to see if repeated or not.

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

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

2. Department Maintenance:



(1)The [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 a department tree.

(2) Upon a change to the department or organizational structure, the user can use the [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 the edit interface for modification.

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

(4) click [import] or [export] to import a file from the computer to the interface or export the information to the computer.

(5) click [operation Logs] to see the recent operation of the department.

∞Note:

A department cannot be deleted freely. If so, the personnel under the department will be pending, and some historical data will not be able to be queried. If deletion is required, please first transfer the departmental personnel to another 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

쥠 Add						×
Personnel Profile	Details	Alternative Access	Levels			
Personnel Number		* Dep	partment		*	
First Name		Car	d Number		1	
LastName		Mot	bile Phone			
Gender	Male	▼ Em	ployee Date	2015-10-15	•	(Optimal Size 230×230 Pixel)
Password		Birth	hday	2015-10-15	•	Browse
Email		Priv	ilege	Employee	•	
Fingerprint Registe	USB FP Sensor	Device				
			Save and Co	ontinue	ОК	Cancel

1.Click [Personnel] > [Personnel] > [Add] to show personnel profile edit interface.

The fields are as follows:

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

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, please refer to <u>4.2.2 Personnel Information</u>. <u>Maintenance</u>.

Password: Set personnel password. An access control panel only supports 8-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.

Employment Date: By default it is the current date.

Terminal Management Privilege: Employee or admin.

Personal Photo: The best size is 230×230 pixels, for saving space.

Fingerprint Register: There are two ways that through fingerprint register or machine to achieve function of fingerprint registration. The fingerprint reader is required to connect to the computer and install the driver before the registration; The machine registration is required to add the device to the software (Achieve the fingerprint registeration only through offline device when editing personnel data).

In addition, can enter the name, cell phone, date of birth, mail and other basic information (non Chinese can enter the last name)

Details: Can enter staff more information, such as, address, education, nationality, nationality, identity card number.

훈 Add				
Personnel Profile Details	Alternative Access Levels			
Education		Nationality City		
Political Status		Home Telephone		
Office Telephone		SSN(ID No.)		
Postal Code		Ethnic		
Job Title				
Home Address				
WorkAddress				
	Sa	ve and Continue	ОК	Cancel

Alternative Access Levels: Select access levels, start and end dates of access validity time and multi-card opening personnel groups (Presetting is required. For details, see <u>6.10</u> <u>Multi-Card Opening</u>).

Add									
Pe	ersonn	el Profile	Details Alternativ	ve Access Levels					
A	Alterna	itive Access I	Levels		Selec	ted Access Level	s		
			Access Level Na	Access Control Ti			Access Level N	Access Control	
	►1		1	24小时通行					
	2		332	аа	>>				
					>				
					<				
					<<				
N	Multi-C	ard Opening	g Group	•					
8	Set Val	id Time							
5	Start d	ate	2015-10-1	5 👻	End	Date	2015-10-15	-	
									_
				Sav	e and Continue		ОК	Cancel	į
									ľ

set the effective time is mainly for temporary access system, that is, only in the effective time to open the door, no check is the default always valid.

2.After the staff information editing, click on the [save and Continue] to continue to add other personnel, or click [OK] to save and exit, the list will show the new staff, click [Cancel] to give up the operation.

4.2.2 Personnel Adjustment

Personnel Adjustment is adjust department or delete of existing 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 the [Adjust Department] button, and the following interface appears:

3	*
	*
ОК	Cancel

(2) click [Adjusted to Department], select the department to be transferred. After editing, click [OK] to save and quit.

	
Company department1 department2 department3	
OK Cancel	

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

3. Search

Click [Personnel] > [Personnel] > [Search], enter the search terms, click [OK] to find the personnel.

窘 Search	x
Personnel No.	First Name
Card No.	Gender
Department No	Department Name
	OK Cancel

4.2.3 Batch Add Employees

위 Batch Add Personnel	х
From Personnel 12 (12) Copy Data	
Personnel Number Number format (*) Wildcards (*) width 1 From 1 To 1	Select the fields Name to copy Department Gender Education Office Telephone Multi-Card open
Progress	
	*
Maximum 10000 personnels	OK Cancel

When Batch Add Employees need select replicating object. If without personal information cannot use this function.Number length of Add Employees is less than 8 digits. A batch maximum can only add 10000 personals.

Number format: number format of personnel, "(*)" will be replaced by the worker's card number in the form.

Wildcard (*) width: That is mean, how many figure the Number pattern has. After the Wildcard (*) width has been defined, by use the From box, To box to create range. Click [OK], add employees, and click [Cancel], return the interface.

In addition, you can click on [import], [export] and the computer for file transfer, click [Operation Logs] to see the operation of the staff.

4.2.4 Issue Card

The operations include Personnel Card Issue, Batch Issue Card, and etc.

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

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 a 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] > [Issue Card] > [Batch Issue Card] to show the Batch Issue Card edit interface.

 Access Control Issue Card Position of swiping card Card Reader Input Card Number Card Reader Input Card Number Card Reader Input Card Number Personnel number Personnel Issuing cards Personnel Num First Name Last Na Gender Department Name Personn First Name Card Nu Card Nu First Name Card Nu First Name Card Nu First Name Card Nu Card	쬙 Batch Issue Card		×
Start personnel number Personnel list Person not issueled card number Has been issuing cards Personnel Num First Name Last Na Gender Department Name Image: Card Num First Name Card Nu	Access Control Issue Card Position of swiping card		Start to read
Person not issueled card number Personnel Num First Name Last Na Gender Department Name Personnel Num First Name Last Na Gender Department Name Personnel Num First Name Last Na Gender Department Name	Card Reader Input Card Number		ОК
Personnel Num First Name Last Na Gender Department Name Personn First Name Last Na Gender Department Name	Start personnel number End p	ersonnel number	Personnel list
	Person not issueled card number		Has been issuing cards
	Personnel Num First Name Last Na	. Gender Department Name	e Personn First Name Last Name Gender Departm Card Nu
OK Cancel			OK Cancel

Personnel list, show these all personnel without cards within this number series.

Select the way of "Access Control Issue Card" or "Card Reade".

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.

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. Input the Start Personnel number and End personnel number, click Personnel list, got the personnel list, and then 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].

🔁 Add		x
Personnel		*
Card Number		*
	ОК	Cancel
	UK	Cancer

≈Note:

The system supports card issue through card issuer and by manually inputting card numbers.

5. Device Management

The 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.

5.1 Area Settings

Area is a spatial concept, enabling 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 includes Add Area and Delete area.

1. Add area:

Click [Device] > [Area Settings] > [Add] to activate the Add Area edit interface:

🕄 Add			
Area Name			*
Area Code			*
ParentArea	name1	•	*
Remarks			
	ОК	Cancel	

The fields are as follows:

Area Name: Any character, up to a combination of 50 characters.

Area Code: Repetition not allowed.

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

After setting, click [OK].

2. Delete area:

Select area, click [Delete], or directly right click [Delete], press [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.

5.2.1 Add Device

Add Device: Click [Device] > [Device] > [Add], also you can click [Search] to search devices which in the network, and directly add from the searching result.

There are two ways to add Access Control Panel.

1. Add Device:

(1) In the Device Type Selection interface, select Add Access Control Panel. The communication modes are TCP/ IP or RS485. The following interface will be shown:

TCP/ IP

중 Add	x
Basic parameters	
Device Name	*
Communication Password	
Access Control Panel Type	Two-Door Access Control Pan 🔻
Switch to Two-door Two-way	
Auto Synchronize Device Time With PC Time	V
Area	name1 🔹 *
Clear Data in the Device when Adding	
Communication Mode	CP/IP ◎ RS485
IP Address	*
IP Port Number	4370 *
Wizard Mode Test Connection Save and Continu	e OK Cancel

IP Address: Please enter the IP Address of the access control panel.

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

RS485

휜 Add	×
Basic parameters	
Device Name	*
Communication Password	
Access Control Panel Type	Two-Door Access Control Pan 👻
Switch to Two-door Two-way	
Auto Synchronize Device Time With PC Time	
Area	name1 🔹 *
Clear Data in the Device when Adding	
Communication Mode	© TCP/IP
Serial Port Number	COM1 • *
RS485 Address	*
Baud Rate	38400 🔹 🔹
Wizard Mode Test Connection Save and Continu	e OK Cancel

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.

∞Note:

The same Serial port Number cannot allow to exits many of baud rates. If RS485 address respectively for 1 and 2 of the two devices, with 38400 and 115200 baud rate respectively add in system, and use the same Serial port COM1, it will could not add.

Device Name: Any character, up to a combination of 50 characters.

Communication Password: Any character, up to a combination of 8 characters (No blank). You need to input this field only when you add a new device with the communication password. It cannot be modified when you edit the device information except in [Modify communication password] operation. Please refer to <u>6.3 Door Settings</u>.

∞Note:

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

Access Control Panel Type: One-Door Access Control Panel, Two-door Access Control Panel, Four-Door Access Control Panel, Standalone Access Control, Standalone SDK Machine.

∞Note:

Standalone SDK Machine is the device which supports Standalone SDK communication protocol, has nothing to do with whether networking. One-Door Access Control Panel, Two-door Access Control Panel, Four-Door Access Control Pane and Standalone Access Control are support pull communication protocol, they are pull device.

For example, when adding a device which supports Standalone SDK communication protocol, choose Standalone Access Control in **Access Control Panel Type**, after the device is connected, the **Access Control Panel Type** will be displayed as Standalone SDK Machine by automatically.

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).

∞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 to 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 adding 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, there is 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 the 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 will 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: includes 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 the serial number, will not be written into the system and settings such as anti-passback and linkage will not be impossible. These settings can be created only when the device is reconnected successfully and corresponding parameters are acquired.

∞Note:

When you add a new device to the system, the system will clear all user information, time zones, holidays, and access control levels settings (including 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 that you not to delete the device in used, to avoid the loss of information.

Access Control Panel Settings:

& TCP/ IP Communication Requirements:

To support and enable TCP/ IP communication, directly connect the device to the PC or connect to the Internet, get the device IP address and other device information of the device.

RS485 Communication Requirements:

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

The devices with yellow background are Standalone SDK Device, for example F8 as below.



2. Add Device By Searching Access Control Panels:

Search the access control panels in the Ethernet.

(1) Click [Device] > [Search Panels], to show the Search interface, supports Ethernet and RS485 search.

	Search Access Control F	Panels						
1	Search by TCP/IP	Search by RS485						
] [MAC Address	IP Address	Subnet Mask	Gateway	Serial Number	Device Type	Status	
:	Search for the access contro	ol panels on the TCP/IF	network.	Mod	lify IP Address	Add Device	Search	Return

*⊯*Note:

If choose the way of RS485, maybe need select corresponding serial port number, baud rate, fill in RS485 address.

Serial Port Number	RS485 Address	Baud Rate	Device existing	Description	Has been added
COM1	1	38400	No	Command not response	No
COM1	2	38400	No	Command not response	No
COM1	3	38400	No	Command not response	No
COM1	4	38400	No	Command not response	No
COM1	5	38400	No	Command not response	No

(2) Click [Start Search], and it will prompt [searching.....].

(3) After searching, the list and total number of access control panels will be displayed.

MAC Address	IP Address	Subnet Mask	Gateway	Serial Number	Device Type	Status	
00:17:61:10:c8:eb	192.168.1.182	255.255.255.0	192.168.1.254	0218140300252	iclock 880	No	
00:17:61:10:0B:BC	192.168.1.219	255.255.255.0	192.168.1.254	2802011110004	inBIO280	No	
00:17:61:10:1C:DB	192.168.5.215	255.255.255.0	192.168.5.254	6566151300010	inBIO460	No	
00:17:61:10:1C:F4	192.168.5.251	255.255.255.0	192.168.5.254	6566151300035	inBIO460	No	

∞Note:

Here we use UDP broadcast mode to search the access controller, this mode cannot exceed the HUB scale. The IP address can exceed the net segment, but must belong to the same subnet, and needs 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 open. 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 open. Enter the new IP address and other parameters (Note: Must configure the gateway and IP address in the same network segment).

5.2.2 Edit and Delete Device

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. The user can to add or delete devices in Device if needed.

Edit: Select device, tick in the box in front, then click above [Edit] menu or right click [Edit] to alter.

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

There are three tabs in the Standalone SDK Device editing interface, [Basic parameters], [Verification and Protocol] and [Other Settings].

Verification and Protocol

2	Edit					
	Basic parameters	Verification and Protocol	Other Settings			
F	Protocol enabling status					5
s	TCP/IP	RS232	🔽 RS4	485		
						-
-\	/erification					_
	1:1 matching threshold f	for fingerprints	Very low	/	•	
	1:N matching threshold	for fingerprints	Very low	/	•	
	1:1 matching threshold f	for faces	Low		•	
	1:N matching threshold	for faces	Low		•	
0	Comparison based on t	he ratio of 1:1 only				
1	lifare card work as ID c	ard				
1	The Mifare card must be	registered	V			
	Test Connection			ОК	Cancel	

ID card: Support reading ID card only.

Mifare card use as ID card: Read the number of Mifare card, but not the memory block.

Protocol enabling status: What protocol is enabled on the specified device. This protocol

must be enabled when the device to use a protocol to communicate with other device.

Matching threshold: The threshold level for recognition of a biometric identification. The lower the threshold, the higher False Access Rate.

comparison based on the ratio of 1:1 only: Mean it is should enter the number before comparison . This way can speed up the recognition speed.

The Mifare card must be registered: the device that support Mifare card, Indicates whether the physical card number of the Mifare card is verified.

Other Settings

문dit				×
Basic parameters	Verification and Protoc	ol Other Settings		
Restart the de	vice		Clear permissio	ons
Synchronize the	time			
Initialize the de	vice	E	nable batch	
Power supply manager Idle mode	Dormant 👻	Idle time (minute)	0	
Parameter				
Date format	YY-MM-DD 🔻	Voice prompt	V	
Fingerprint version	10.0 -	Verification voice		
Volume	Medium -	Keyboard tone	V	
Test Connection			ОК	Cancel

After the device is connected successfully, user can view the device information and set the parameters through system.

Choose the device, click **[delect]**, then click **[OK]**, can delect the device on the list.

5.2.3 Search Device

Search: Click [Device] > [Device] > [Search], will pop the following interface, enter the search terms to get the information.

문 Search	د	×
Device Name		
IP Address		
Serial No.		
RS485 Address		
	OK Cancel	

5.2.4 Get Event Entries

Get event records from the device into the system.

Three options are provided for this operation, Get New Records, Get All Records, and Clear record after downloaded.

위 Get Logs			
Get new logs	⊘ Get all logs	🔲 Clear logs a	ifter downloaded
Progress			
	0%		
Total progress			
	0%		
Details		Get	Exit

Get New Entries: The system only gets the new event entries since the last time event entries were collected and records them into the database. Repeated Entries will not be rewritten.

Get All Entries: The system will get all of the event entries again. Repeated Entries will not be rewritten.

Clear record after downloaded: After records are downloaded, the device will

automatically delete all the records.

When the network is interrupted or communication is interrupted for any reasons, and the

event records in the device have not been uploaded into the system in real-time, the operation can be used to manually acquire event records in the device. In addition, the system also can set timing to get.

∕ ×Note:

The access controller can restore up to 100 thousands of event entries. When the entries exceed this number, the device will automatically delete the oldest restored entries (the default delete number is 10 thousands).

5.2.5 Sync All Data to Device

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.

≈Note:

The operation of Synchronize All Data is mainly to delete all data in the device first (except event record). Download all settings again, please keep the net connection stable and avoid power down situations, etc. If the device is working normally, please use this function with caution. Execute it in rare user situations to avoid impact on normal use of the device.

5.2.6 Get Personnel Data From Device

Take origin information of the device saves in the system.

휜 Get Data From Device			x
Download These Data Image: Download These Data Image: Download These Data Image: Download These Data Image: Download These Data	🛛 Fingerprint Templates 🛛 🕅	Vein 📃	Face Templates
Progress			
	0%		
Total progress			
	0%		
Details		Get	Return

5.2.7 Get Information of Personnel

Renew the current number of personnel quantity, fingerprint quantity, vein number and face quantity in the device. The final value will be displayed on the device list.

Device \$			evice N	Serial Nu	Communication	IP Address	Serial Port Nu	RS485 Add	Ena	Personnel Qu	Fingerprint Qu	Vein Nu	Face qua	Device M	Firmware Ver	Area Nan
ea	+1	- N	lultiBio 7	50100003	TCP/IP	192.168			0	5	7	0	3	MultiBio 7	Ver 6.60 Jun	区域名称
٩	2	i 📃	nbio460	05661348	TCP/IP	192.168			•	10000	1500	0	0	inBIO460	AC Ver 5.0.9	区域名称
rch Access Control																

5.2.8 More Information

Includes that Modify IP Address, Close Auxiliary Output, Disable, Enable, Modify Communication Password, Synchronize Time, Upgrade Firmware, Get Logs From SD Card, Import Data From USB disk and etc.



(1) Disable/Enable

Select device, click [Disable/Enable] from [More Information] menu 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 successful, if the user performs the enable operation, the system will immediately reconnect the device.

(2) Upgrade Firmware

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

(3) Synchronize Time

Synchronize device time with current server time.

(4) 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 is fails because the network is unavailable, then the IP address cannot be modified. Enter new IP address, gateway, and subnet mask. Click [OK] to save settings and quit. This function the same as [Modify IP Address Function] in <u>5.2.1 New Add Device</u>. 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.

🗿 Modify IP Address		×
Old IP Address	192.168.90.72	*
New IP Address	192 . 168 . 90 . 72 🛛 🗴	*
Subnet Mask	255 . 255 . 255 . 0 🔳	*
Gateway Address	0.0.0.0	*
Port	4370 🔺	
	OK Cancel	

(5) Close Auxiliary Output

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

(6) 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.

窘 Modify communication password								
Old Communication Password			*					
New Password			*					
Confirm Password			*					
	ОК	Cancel						

≈Note:

The communication password cannot contain space.

It is recommended that a combination of numbers and letters be used. The communication password setting can improve the device security. It is recommended to set communication password for each device.

(7) Change The Fingerprint Identification Threshold

The user can change the fingerprint identification threshold in the device. The scale is 35-70 and 55 by default. In device adding, the system will get the threshold from the device. If the operation succeeds, user can view the threshold in all of the devices. Batch operation is permitted, the user can change multiple devices concurrently.

(8) Modify Baudrate: Select device and click [Modify Baudrate] to show the Modification interface. This option is used to set the baud rate for the communication between the device and the PC. It includes five options: 9600, 19200, 38400, 57600, and 115200.

(9) Operation Logs

Record this system history operating records, with list form to record all of the operation. At interface of Personnel, Department, Issue Card has [Operation Logs] menu, click it can show the relevant record information.

	User	Operating time	Object Type	Action Identification	Change Message	
▶1	admin	2015/10/21 11:12:19	device object	Device operation	Enabled device inbio460	
2	admin	2015/10/21 11:12:19	Machines	Modify	Modify Deviceinbio460	
3	admin	2015/10/21 11:11:52	device object	Device operation	Enabled device inbio460	
4	admin	2015/10/21 11:11:51	Machines	Modify	Modify Deviceinbio460	
5	admin	2015/10/21 11:11:37	device object	Device operation	Enabled device MultiBio 700	
6	admin	2015/10/21 11:11:37	Machines	Modify	Modify DeviceMultiBio 700	
7	admin	2015/10/21 11:11:04	device object	Device operation	Enabled device MultiBio 700	
8	admin	2015/10/21 11:11:03	Machines	Modify	Modify DeviceMultiBio 700	
9	admin	2015/10/21 11:10:50	device object	Device operation	Enabled device inbio460	
10	admin	2015/10/21 11:10:50	Machines	Modify	Modify Deviceinbio460	
11	admin	2015/10/21 11:10:18	device object	Device operation	Enabled device inbio460	
12	admin	2015/10/21 11:10:18	Machines	Modify	Modify Deviceinbio460	
13	admin	2015/10/21 11:09:04	device object	Device operation	Device has been disabled inbio460	
14	admin	2015/10/21 11:09:04	Machines	Modify	Modify Deviceinbio460	
15	admin	2015/10/21 11:08:59	device object	Device operation	Enabled device inbio460	
16	admin	2015/10/21 11:08:59	Machines	Modify	Modify Deviceinbio460	

(10) Sync Latest Modification Data To Device

The operational process of the new settings information synchronizes to the device.

Such as New Add Personnel, Access Control Setting etc, It is adopt increment synchronization.

≈Note:

The operation of Synchronize All Data is mainly to delete all data in the device first (except event record). Download all settings again, please keep the net connection stable and avoid power down situations, etc. If the device is working normally, please use this function with caution. Execute it in rare user situations to avoid impact on normal use of the device.

(11) Export

Click [Device] > [Device] > [More] > [Export], can export the relevant contents of device with EXCEL or PDF or Txt. format, save on your computer.

(12) Get Logs From SD Card

The system will get the event logs from the SD card in the controller, and then through system analyzing, will save backed-up records of the SD card to the system.

The log files name of Standalone SDK Machine, Access Control Panel and Standalone SDK Machine are *.dat, because of data formats are different, the system analyzes the process of log files are different, details are as follows:

If a file name ends with "_attlog.dat", the system determines that the file is an event record file of Standalone SDK Machine, and takes characters in front of the underline as the S/N of the device. If the device with such a machine S/N exists in the database, the system imports event records; otherwise, no processing is performed.

If a file name does not end with "_attlog.dat", the system determines that the file is an event record file of the Pull device (Access Control Panel or Standalone Access Control). Then, the system analyzes the file according to the Pull format, and obtains the S/N of the device from the file. If the device with such an S/N exists in the database, the system imports event records; otherwise, no processing is performed.

An event record exported from a Pull device (Access Control Panel or Standalone Access Control) is named BKtransaction.dat by default. An event record exported from Standalone SDK Machine is named Machine S/N_attlog.dat by default.

When the network is interrupted or communication is interrupted for any reasons, and the event records in the device have not been uploaded into the system in real-time, the operation can be used to manually acquire event records in the device. In addition, also can set timing obtain logs.

∞Note:

The access controller can restore up to 100 thousands of event logs. When the logs exceed this number, the device will automatically delete the oldest restored entries (the default delete number is 10 thousands).

(13) RS485 Master-slave configuration

Click [Device] > [More] > [RS485 Master-slave configure], including three options as follows:

Parameter Configure	
RS485 Master-Slave Configure]
RS485 Address RS485 Master RS485 Slave	1 (1-255) Master Slave
	OK Cancel
1. RS485 Address: Set the device number. It is equivalent to the Ethernet IP address when RS485 communicating. It is the only address for establishing serial port communication. Address values in the range of 1 ~ 255.

2. RS485 Master: Tick this, the master act as controller for setting device, connecting the reader.

3. RS485 Slave: Tick this, the slave act as reader for setting device, connecting the controller or access control equipment.

Choose the configuration what you need, click the [OK] button, and then the system will bring the selected configuration upload to the device, the RS485 master-slave configuration is completed.

∕≪Note:

- (1) If select one from the RS485 master option or the RS485 master option, the device and system cannot for RS485 and serial port communication.
- (2) If you do not choose any one from the two options, the device and system can for RS485 and serial port communication.
- (3) RS485 master option and RS485 slave option are mutually exclusive options, it means that RS485 slave will be automatically un-checked state when you choose RS485 master.

(14) Import data from USB disk

昚 Import data from the USB disk			
Employe A Name	Card ID Fingerprint Vein	quantity Face quanti Face quantit	Data type User information Fingerprint information Face data Finger vein
			User type 9-digit employee ID 5-digit employee ID Color screen Fingerprint version 10.0 9.0
	0	0 0 0	Get Save Exit

Download the user information, fingerprint information, face data, finger vein from device to USB disk, then upload the data to the database of system.

(15) Export data to the USB disk

쬙 Export data to the USB disk	×							
Export the following data to the USB disk Image: User information Image: Fingerprint information Image: Finger vein								
Time zone of access contro Access privileges								
First-card normal opening Multi-card opening Linkage								
Current device progress								
0%								
General progress								
0%								
Details Export Return								

Download the user information, fingerprint information, face data and finger vein from system to USB disk, then upload the data to the device.

∞Note:

Standalone supports to export user information, fingerprint information, face data and finger vein only.

6. Security System Management

1. Work principle of the access control system

The System is a C/S-based management system, providing 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 the use of data from the access control panel for attendance purpose, to save the device resource.

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

2. Access control system parameters

✤ 255 time zones.

✤Unlimited access levels.

✤Three holiday types and 96 holidays total.

✤Anti-passback function.

✤Wiegand format.

✤Interlock function.

☆Linkage function.

✤ First-Card Normal Open function.

✤Multi-Card Opening function.

✤ Remote door opening and closing.

✤ Real-time monitoring.

3. Operation functions of access control system

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.

∞Note:

This chapter the parameters definition can refer to <u>Definitions</u>.

6.1 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 for 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, during a week, you can define up to three intervals for each day and three holiday types for each time zone. 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, by default the system has access control time zone named [Accessible 24 hours]. This time period can be modified but cannot be deleted. The user can add Access Control Time Zones that can be modified.

1. Add Access Control Time Zone:

(1) Enter into the system, click [Access Control] > [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 50 characters.

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

Standalone device parameters

Time zone ID 1: ID of the first time zone (from left to right) in a day from Monday to Sunday.

Time zone ID 2: ID of the second time zone (from left to right) in a day from Monday to Sunday.

Time zone ID 3: ID of the third time zone (from left to right) in a day from Monday to Sunday.

Holiday Time zone ID: ID of the first time zone (from left to right) among time zones of holiday type 1.

∞Note:

You can define a total of 50 IDs from 1 to 50. Each ID can be allocated to only one time zone. "1" is the ID of the time zone "24 hours pass" by default, as shown in the following figure:

Time Zone Name		*	Remarks		Help?
Standalone device parameter	rs				
Timezone ID 1	T	ïmezone ID 2	▼	Timezone ID 3	Holiday TZ Id 🛛 💷 👻

Holiday Type: Three holiday types can be defined. The time zones of each type can be different. When adding holidays, you must specify the holiday type.

In the access control system, the priority of holidays is higher than that of common weekdays.

For example, the Children's Day in 2014 is Sunday (June 1st). When adding holidays, you can set the Children's Day as holiday type 1. When June 1st, 2014 arrives, the equipment manages access control time zones according to the preset holiday type 1, instead of the preset time zones on Sunday.

🗷 Note:

If the holiday type of a time zone is not set, the access is denied in 24 hours by default.

Start Time: Start time of a time zone.

End Time: End time of a time zone.

Setting method: The setting of the time zone is null by default, that is, Norma Close. If a time zone is Normal Open, press and hold the left mouse button and drag the mouse to select the entire time frame. The start time 00:00 and the end time 23:59 will be displayed in the lower part of the page.

You can set a maximum of three time zones in a day. You can drag the mouse on the time frame to set each time zone. The start time and the end time of each time zone will be displayed in the lower part of the page. After the time zones are set, click [OK] to save the settings. The time zone names will be displayed in the list.

🗷 Note:

A maximum of three time zones can be set in a day.

2. Maintenance of Access Control Time Zone:

Edit: In the time zone list, pitch on relevant time zone, and then right-click to select [Modify time] to access the time zone modification interface, and modify the time zone setting. After modification, click [OK], and the modified time zone will be saved and shown in the time zone list, or click [Cancel] to cancel the operation.

Delete: In the time zone list, pitch on relevant time zone, and then right-click to select [Delete time], click [OK] to delete the time zone, or click [Cancel] to cancel the operation. A time zone in use cannot 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 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:

용 Add		×
Helidey Name		*
Holiday Name		
Holiday Type	Holiday Type 1 🔹	*
Start Date	2015-10-16 🔹	*
End Date	2015-10-16 🔹	*
Recurring		
Remarks		
Standalone device param	neters	
Holiday No		
Holiday Timezone		
	OK Cancel	

The fields are as follows:

Holiday Name: Any character, up to a combination of 50 characters.

Holiday Type: Holiday Type 1/2/3, namely, A current holiday record belongs to these three holiday types and each holiday type includes up to 32 holidays.

Start / End Date: Must meet the date format as "2012-1-1". The Start Date cannot be later than the End Date otherwise the system will prompt an error. The year of the start date Start Date cannot be earlier than the current year, and the holiday cannot 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, 2012, and the holiday type is 1, then on January 1, Access Time Control will not follow the time of "Friday" in the week, but the Access Control Time of Holiday Type 1 such as <u>6.1 Time Zones</u>.

Standalone device parameters

Holiday Number: Number of a holiday on the device. The holiday number ranges from 1 to 24. This parameter is not supported by a device with the black/white screen.

Holiday Time Zone: Time zone used in a holiday. The time zone ID ranges from 1 to 50. Only the allocated time zone IDs can be used for holiday time zones.

For example, time zone IDs 1, 3, and 4 have been allocated. When adding a holiday, you can select time zone ID 1, 3, or 4 for the holiday.

(2) After editing, click the [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 the edit interface. After modification, click [OK] to save and quit.

문dit	x
Holiday Name	name1 *
Holiday Type	Holiday Type 1 🔹
Start Date	2015-10-16 *
End Date	2015-10-16 *
Recurring	
Remarks	
Standalone device parar	meters
Holiday No	
Holiday Timezone	
	OK Cancel

3. Deletion of Access Control Holiday:

In the access control holiday list, click the [Delete] button under "Related Operation". Click [OK] to delete the holiday, or click [Cancel] to cancel the operation. An Access Control Holiday in use cannot 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

Click [Access Control] - [Door Setting], select the door to be modified, show the Edit interface.

∞Note:

Access3.5 System automatic identification device type. If it is **Standalone SDK Machine** (Diagram 1), interface will show the **Default time zone**, **Master In/Out state**, **Error times to alarm**, **Sensor delay alarm** and **Enable SRB** options.

If it is Access Control Panel or Standalone Access Control (Diagram 2), interface will display the Reader1 In/Out state and Reader2 In/Out state options. Please view as follows:

좡 Edit						×
Device Name	MultiBio 700	•	Door S	ensor Type	None	•
Door Number	1	•	Door S	tatus Delay	15 📩	Second(1-99)
Door Name	MultiBio 700-1	•	Close a	and Revserse State	\checkmark	
Default time zone		•	Time a	ttendance		
Door Passage Mode Time Zone			Lock O	pen Duration	5 🌲	Second(1-10)
Verify Mode	Any -	•	Punch	Interval	0 1	Second (0-10)
	Any Only Fingerprint			mes to alarm	0 🌲	
	Employee ID Only Password			r delay alarm	1 🖨	Second(1-99)
Duress Password	Only Card Fingerprint or password			SRB		
Emergency Password	Card or Fingerprint Card or password					
Wiegand	Fingerprint and employee	ED				
Copy the settings to doors of the Copy the settings to doors of all t	Fingerprint and password Card and Fingerprint Card and Password Card and fingerprint and p Fingerprint and User ID as					
	Fingerprint and card or en			ОК	Cancel	
	Face only Face and fingerprint Face and password Face and card Face and fingerprint and p Face and fingerprint and p					

(Diagram 1)

용 Edit					×				
Device Name	inbio460	*	Door Sensor Type	None	*				
Door Number	4	*	Door Status Delay	15 🔺	Second (0-254)				
Door Name	inbio460-4	*	Close and Revserse State	\checkmark					
Door Active Time Zone	24小时通行	*	Time attendance						
Door Passage Mode Time Zone	e		Lock Open Duration	5 🚔	Second(0-254)				
Verify Mode	Card or Fingerprint 🗸 🗸	•	Punch Interval	0 🚔	Second (0-10)				
Reader1 In/Out state	Only Fingerprint Only Password								
Reader2 In/Out state	Only Card Card or Fingerprint								
Duress Password	Card or password Card and Fingerprint								
Emergency Password	Card and Password	1							
Wiegand	<u>Settings</u>								
Copy the settings to doors of the current panel 🔲 Copy the settings to doors of all the panels 📄									
				ОК	Cancel				

(Diagram 2)

6.3.1 Device Name

Device Name is not editable (must be edited in <u>5.2.1 New Add Device</u>).

6.3.2 Door Number

The system automatically names the numbers of doors according to how many doors of the device have (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:

By default, the number following the underline in the door name is consistent to 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. They are not necessarily related. The system allows the user to modify the door name, so they cannot be confused.

6.3.3 Door Name

The default Door Name is "device name-door number". Fox example, Device name is 192.168.16.37 and Door number is 1, so the Door Name is 192.168.16.37-1 by default.

The field allows the user to modify as required. Up to 50 characters can be entered.

6.3.4 Door Active Time Zone/Default time zone

When the device is **Standalone SDK Machine**, the parameter is **Default time zone**, when the device is Controller or Standalone Access Control, the parameter is **Door Active Time Zone**.

By default both are 24 hours pass. Initialized and added access control time zones will be shown for the user to select. Upon door editing, door valid time zone is needs to be input. Only after setting the door valid time zone, the door can be opened and closed normally.

6.3.5 Door Passage Mode Time Zone

We recommend to set the 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 for one day (including First-Card Normal Open), and close the door immediately.

When the system is connected with Access Control Panel or Standalone Access Control, Time Zone Name is shown in the drop-down list of Door Passage Mode Time Zone, as the following picture:

Device Name	inbio460 .	Door Sensor Type	None	
Door Number	4	Door Status Delay	15 🔄 Second	1 (0-254)
Door Name	inbio460-4	Close and Revserse State	V	
Door Active Time Zone	24小时通行	Time attendance		
Door Passage Mode Time I	Zone	Lock Open Duration	5 🚖 Second	d(0-254)
Verify Mode	Card or Fingerprint	Punch Interval	0 🚖 Second	d (0-10)
Reader1 In/Out state	Only Fingerprint Only Password			
Reader2 In/Out state	Only Card Card or Fingerprint			
Duress Password	Card or password Card and Fingerprint			
Emergency Password	Card and Password			
Wiegand	Settings			
Copy the settings to doors o	f the current panel 🔲			
opy the settings to doors o	f all the panels 📃			

When the system is connected with Standalone SDK Machine, Time Zone ID is shown in the drop-down list of Door Passage Mode Time Zone, as the following picture:

Device Name	MultiBio 700	*	Door Sensor Type	None	
Door Number	1	•	Door Status Delay	15	Second(1-99)
Door Name	MultiBio 700-1	*	Close and Revserse State	\checkmark	
Default time zone		•	Time attendance		
Door Passage Mode Time	Zone	-	Lock Open Duration	5 🜲	Second(1-10)
/erify Mode	1	-	Punch Interval	0 🛕	Second (0-10)
	2		Error times to alarm	0 🜲	
	<u> </u>	_	Sensor delay alarm	1	Second(1-99)
Duress Password	Settings		Enable SRB		
Emergency Password	Settings				
Viegand	Settings				
opy the settings to doors o opy the settings to doors o					

6.3.6 Verify Mode

Click [Door Setting], and then double click [Door Name], entry [edit] interface, so select [Verify Mode].

Controller or Standalone Access Control: Only Fingerprint, Only Password, Only Card, Card or Fingerprint, Card or Password, Card plus Fingerprint and Card plus Password.

Standalone SDK Machine: Fingerprint or Card or Password, Only Fingerprint and etc.

Verify Mode	Fingerprint and card - Punch							
	Any							
	Only Fingerprint							
	Employee ID							
	Only Password							
	Only Card							
Duress Password	Fingerprint or password							
Emergency Password	Card or Fingerprint							
Energency Password	Card or password							
Wiegand	Fingerprint and employee ID							
	Fingerprint and password							
Copy the settings to doors of the	Card and Fingerprint							
Copy the settings to doors of all t	Card and Fassword							
Copy the settings to doors of all t	Card and fingerprint and password							
	Fingerprint and User ID and Password							
	Fingerprint and card or employee ID							
	Face only							
	Face and fingerprint							
	Face and password							
	Face and card							
	Face and fingerprint and card							
	Face and fingerprint and password							

When Password mode is selected, make sure the door uses a reader with keyboard (the fingerprint verification modes are only available for version 5.0.8 and above version).

≈Note:

The system supports Vein device, if connect it, [Verify Mode] will show "Only Vein", "Vein and Password", "Vein and Card", "Vein plus Card and Pass" in the system.

6.3.7 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.

6.3.8 Door Status Delay

Set the door sensor delay. An alarm will be generated if the door is left open for a period of time, and this period is called door sensor delay.

6.3.9 Close and Reverse-lock

Set locking or not after door closing. Tick it for lock after door closing.

6.3.10 Time Attendance

If this option is selected, The AC Log of the door will be used for attendance.

≈Note:

Please select a door in [Door Setting] before using Time Attendance, or the report will be none.

6.3.11 Lock Drive Duration

Definition: The time duration of electronic lock works from open to close when user's verification succeeds (In case the door is closed).

To set this duration, proceed as follows: Select Lock, and press OK. Then enter a desired number through the numeric pad, and press ESC to exit and save the setting.

"S (second)" is chosen as the unit of lock driver duration, and you can set it 1s ~ 10s (some devices can set 254s at most).

If set the duration to "0", means Lock driver duration is closed. Normally, we do not suggest set it is "0".

6.3.12 Punch Interval

The unit is seconds (range: 0~10 seconds), and the default is 2 seconds.

6.3.13 Error Times to Alarm

When user error input password, place fingerprints or punch card N times, the device will alarm.

For example, when N=3, a user error input password 3 times, the device will alarm.

≈Note:

The parameter is only for Standalone SDK Machine.

Value range: 0<=N<=9, when N=0, it means that the device do not alarm all the time.

6.3.14 Sensor Dlay Alarm

When door status delay more than N seconds, the device will alarm.

For example, when N=10, it means that when door status delay more than 10 seconds, the device will alarm.

≈Note:

The parameter is only for Standalone SDK Machine.

Value range: 1<=N<=99, when N=0, it means that the device do not alarm all the time.

6.3.15 Enable SRB

When Enable SRB is selected, the lock is controlled in SRB, to keep the door closed when device is dismantled.

≈Note:

The parameter is only for Standalone SDK Machine, and only the SRB is installed, the SRB will be take effect.

6.3.16 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 setting: The value range is 1 to 6 integers.

Emergency Password: The password can only be set to 8 integers.

6.3.17 Apply these Settings to Current Access Control Panel

Click to apply to all doors of the current access control panel.

6.3.18 Apply these Settings to all Access Control Panel

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.

Other parameters specifications refer to **Definitions** in this user manual.

6.4 Access Levels

Access levels means in a specific time period, which door or door combination can be opened through verification.

Add access levels:

1. Click [Access Control] > [Access levels] > [Add] to enter Add access levels edit interface:

ccess	s Level I	Name				*			A	ccess Co	ontrol Tim	ne Zone			•	*
elect	Doors								Select	ed Doors	3					
		Door N	lame		Device Na	me							Door Nam	e	Owned De	vice
1		inbio4	50-1		inbio460			>>								
2		inbio4	60-2		inbio460											
3		inbio4	60-3		inbio460			>								
4		inbio4	60-4		inbio460											
5		MultiBi	o 700-1		MultiBio 70	0		<								
								<<								
elect	Person	nels							Select	ed Perso	onnels					
		Perso +	First Na	Las	Card Nu	Departme					Perso	D 🔺	First Na	Last Na	Card Nu	Departm
1		1	1		14626201	公司名称	÷.									
2		2	2		5205878	公司名称	0	>>								
3		3	3		5206246	公司名称										
4		4	4		15662635	公司名称		>								
5		5	5		16208073			2								
6		6	6		15662636	公司名称										
7		7	7		15662637			<								
B		8	8		15662638											
9		9	9		15662639	公司名称		<<								
10		10	10		15662640											
11		11	11		15662641											
12		12	12		15662642											
13		13	13													
14		14	14		15662644	公司名称										
		15	15		15662645	公司名称										

2. Set parameters: access level name (no repetition), access control time zones, door combination,

selected personnel.

3. click and move the personnel to the selected list of people. Also can click

on all mobile.

4. Click [OK] to complete setting and quit, and added access levels will appear in the list.

∞Notes:

- (1) Select the doors in the access levels as multi-choice, so you can select different doors in different control panels.
- (2) When adding personnel, if selected personnel exist in the current access level, the system cannot add again.
- (3) Two levels with the same time zone and door combination are not allowed in the system.
- (4) The devices with yellow background are doors of Standalone SDK Machine.
- (5) If there is a door of Standalone SDK Machine in the **Selected Doors,** then the Time Zone that undefined Time zone ID cannot be selected in the drop-down list of Access Control

Time Zone, otherwise, otherwise you won't save. For example the above picture, COM4-1-1 is a Standalone SDK Machine, Pass Time Zone 3 is undefined Time zone ID, when click [OK], it will pop up above prompt dialog box.

Personnel Access Levels: Select personnel, click [Delete from access level] to delete the personnel from the access level.

6.5 Wiegand Format

Wiegand format configuration includes four aspects: How to configure the Wiegand format, Wiegand Input, Wiegand Output, Pre-Define WG Format.

6.5.1 How to Configure the Wiegand Format

Wiegand format associated with the door, you can assign each door's Wiegand input and output formats.

Click [Access Control] > [Door Setting], select the door to be modified, show the Edit interface as follows:

鋢 Edit				x
Device Name	MultiBio 700	*	Door Sensor Type	None 💌 *
Door Number	1	*	Door Status Delay	15 - Second(1-99)
Door Name	MultiBio 700-1	*	Close and Revserse State	\checkmark
Default time zone	•	*	Time attendance	
Door Passage Mode Time Zone			Lock Open Duration	5 🚔 Second(1-10)
Verify Mode	Any 🔽	*	Punch Interval	0 🚖 Second (0-10)
			Error times to alarm	0
			Sensor delay alarm	1 🚔 Second(1-99)
Duress Password	Settings		Enable SRB	
Emergency Password	Settings			
Wiegand	<u>Settings</u>			
Copy the settings to doors of the Copy the settings to doors of all t				
			I	OK Cancel

Click [WG Setting], it will display Wiegand Input or Wiegand Input & Output interface.

Editing different doors, the Wiegand setting interface will be different.

(1) When editing controller, only with Wiegand Input interface as follows:

Wiegand Input		
Wiegand Format	Auto	~
	Auto	
	Wiegand26 Wiegand26a Wiegand34 Wiegand34a	
	Wiegand36 Wiegand37	
	Wiegand37a Wiegand50 Wiegand66	

(2) When editing Standalone Access Control, With Wiegand Input & Output is Wiegand 26 as default and the interface is as below:

🕄 Wiegand		
Wiegand setting		
Wiegand Input		
Wiegand Format	Wiegand26	~
Wiegand Output		
Wiegand Format	Wiegand26	~

(3) When editing Standalone SDK Machine, With Wiegand Input & Output interface as below:

왕 Wiegand format sett	ing		×
Output configuration The format has been de		Input configuration	
Wiegand26 Failure ID Site code		Wiegand26 Total number of bits	26
Pulse width	100 Microsecor	Pulse width	100 🚔 Microsecor
Pulse interval	1000 Microsecor	Pulse interval	1000 🚔 Microsecor
Output content	Card ID 🔹	Input content	Card ID 🔹
		ок	Cancel

Instruction to Wiegand input & Wiegand output configuration

Wiegand Output Format: The system has four built-in formats Wiegand 26 (with a device ID), Wiegand 34 (with a device ID), Wiegand 26 (without device ID) and Wiegand 34 (without device ID).

Failure ID: Refers to the value output by the system upon verification failure. The output format is subject to the setting of **Wiegand Format** and the default value range from 0 to 65535.

Site Code: The Site Code is used for customized Wiegand format, the system acquires the Site Code of the device automaticly when adding a device. The Site Code is similar to the device ID, but the Site Code is customizable and can be duplicated among different devices. The default value range from 0 to 255.

Total Number of Bits: Refers to the Input Format and set the Total number of bits. For example, if the Input Format is Wiegand 26, then the Total number of bits is 26, if the Input Format is Wiegand 34, then the Total number of bits is 34. The default value is 26.

Pulse Width: Assigns the width of the Wiegand pulse in microseconds. The value range from 1 to 1000, and the default value is 100.

Pulse Interval: Assigns the interval of the Wiegand pulse in microseconds. The value range from 1 to 10000, and the default value is 1000.

Input Content: Choose the input contents, You can select the Employee ID or Card ID.

Output Content: Choose the output contents, You can select the Employee ID or Card ID.

∞Note:

If a Standalone Access Control is as a reader to be connected with a controller, then the output content of Standalone Access Control must the same as input content of controller.

Input Format: Assigns Wiegand inputs format.

Standalone SDK Machine includes Black & White Screen device and Color Screen device, but the Wiegand Input Format of them are different.

• The Wiegand Input Format of Black & White Screen device

문 Wiegand format se	tting		x				
Output configuration The format has been d Wiegand26	lefined	Input configuration Input format PFFFFFFFFIIIIIIIIIIIIIIIII					
Failure IDSite code		Total number of bits	26				
Pulse width	100 Microsecon	Pulse width	100 🚔 Microsecor				
Pulse interval	1000 🐳 Microsecor	Pulse interval	1000 🚔 Microsecor				
Output content	Card ID	Input content	Card ID 🔹				
		ок	Cancel				

The Wiegand input format of Black & White Screen device includes: OEM Code (It does not need to define for wiegand 26 but Wiegand 37 or Wiegand 34), Facility Code (machine number or refers to site code), ID Number (user serial number), its first letter respectively indicate (capital letter and small letter are different) in the form, ofiOFI, the small letter express odd (Odd), the capital letter refers to even (Even), Oo refers to OEM code, Ff refers to Facility code, li refers to ID number, Prefers to the parity bit.

Eve n	Facility Code					IC	ID Number						Od d												
Ρ	F	F	F	F	F	F	F	F					i	i	i	i	i	i	i	i	i	i	i	i	Ρ

∞Note:

The letters from second to thirteen are capital letter, and they are Even Parity Bit; The letters from fourteen to twenty five are small letter, and they are Odd Parity Bit; The first letter is Even Parity Bit and the last letter is Odd Parity Bit.

Output configuration		Input configuration				
The format has been	defined	Input format				
Wiegand26	▼	psssssssccccccccccccp				
 Failure ID Site code 		Total number of bits	26			
Pulse width	100 🚔 Microsecor	Pulse width	100 🚔 Microsec			
Pulse interval	1000 🚔 Microsecor	Pulse interval	1000 🚔 Microsec			
Output content	Card ID 🗸	Input content	Card ID -			

• The Wiegand Input Format of Color Screen device

The customized format consists of two character strings: the data bits and parity bits. These two character strings need to be defined separately. Data bits define the number of binary bits output by Wiegand as well as the meaning of each bit.

The data bits output by Wiegand can be a Card Number (C), Site Code (s), Facility Code (f), Manufacturer Code (m) and Parity Bits (p).

Parity Bits define the parity mode of each bit in data bits and ensure the correctness of data bits during transfer through the parity. The parity bits can be set to Odd Parity (o), Even Parity (e) and Both Odd Parity and Even Parity (b).

There exists a one-to-one correspondence relationship between the data bits and parity bits.

Characters used to define parity bits and their meanings:

o: Indicates the odd parity, that is, there is an odd number of 1's in the bit sequence (including

one parity bit). For example, for 1000110(0), the parity bit is 0 and there are already three 1's. After 0 is suffixed to 1000110, there is still an odd number of 1's.

e: Indicates the even parity, that is, there is an even number of 1's in the bit sequence (including one parity bit). For example, for 1000110(1), the parity bit is 1 and there are already three 1's. After 1 is suffixed to 1000110, there is an even number of 1's.

b: Indicates both odd parity and even parity .

For example, the Wiegand26 can be customized as follows:

Definition of data bits: psssssssccccccccccccc

Definition of parity bits: eeeeeeeeeeeeeooooooooooo

∞Note:

Wiegand26 consists of 26 bits. The first bit is the even parity bit of bits 2 to 13; the 26th bit is the odd parity bit of bits 14 to 25; the second to the ninth bits are the site code; the 10th to the 25th bits are the card number.

For example: Definitions of several universal Wiegand formats.

Wiegand34

Parity bits: eeeeeeeeeeeeeeeoooooooooooooooooo

∞Note:

Wiegand34 consists of 34 bits. The first bit is the even parity bit of bits 2 to 17; the 34th bit is the odd parity bit of bits 18 to 33; the second to the ninth bits are the site code; the 10th to the 25th bits are the card number.

Wiegand37a

Data bits: pmmmmsssssssssssccccccccccccccc

Parity bits: oeobeobeobeobeobeobeobeobeobeobeoe

∞Note:

Wiegand37a consists of 37 bits. The first bit is the odd parity bit of bits 3, 4, 6, 7, 9, 10, 12, 13, 15, 16, 18, 19, 21, 22, 24, 25, 27, 28, 30, 31, 33, 34 and 36; the 37th bit is the odd parity bit of bits 2, 4, 5, 7, 8, 10, 11, 13, 14, 16, 17, 19, 20, 22, 23, 25, 26, 28, 29, 31, 32, 34 and 35; bits 4, 7, 10, 13, 16, 19, 22, 25, 28, 31 and 34 participate in both odd and even parity parity . Bits 2 to 5 are manufacturer code; bits 6 to 17 are the site code; bits 18 to 36 are the card number.

Wiegand37

Data bits: pmmmffffffffssssssscccccccccccc

∞Note:

Wiegand37 consists of 37 bits. The first bit is the even parity bit of bits 2 to 18; the 34th bit is the odd parity bit of bits 19 to 36; the second to the fourth bits are the manufacturer code; the 5th to the 14th bits are facilitate code; the 15th to the 20th bits are the site code; the 21st to the 36th bits are the card number.

Wiegand50

∞Note:

Wiegand50 consists of 50 bits. The first bit is the even parity bit of bits 2 to 25; the 50th bit is the odd parity bit of bits 26 to 49; the second to the 16th bits are the site code; the 17th to the 49th bits are the card number.

6.5.2 Wiegand Input

Including automatic matching, the default format and User-Defined format, you can be free configuring any one from the three options. Automatic matching is default format.

6.5.3 Wiegand Output

Including the default format and user-define format.

∞Note:

- (1) Wiegand output format configuration, the system will automatic decision the device whether support Wiegand output or not according to the device type. the system does not display Wiegand output interface if there is no Wiegand output.
- (2) At present, our company's controller does not support Wiegand output format.

6.5.4 Pre-Defined Wiegand Format

Click [Access Control] > [Wiegand Format], then the following interface is as following:

🕄 Wiegand									×		
Wiegan	d Format	1									
Add Edit Delete											
WG Bits	Odd	Parity Bit	Even F	Parity Bit	Car	d Code	Fac	ility Code			
Total Bits	Start Bit	Bits	Start Bit	Bits	Start Bit	Bits	Start Bit	Bits			
						ОК		Cancel			

New add interface as following:

쥠 Add		×
Name		*
Total Bits	*	
Odd Parity Start Bit	NO. Of Bits	
Even Parity Start Bit	NO. Of Bits	
Card Number Start Bit	* NO. Of Bits	*
Facility Code Start Bit	NO. Of Bits	
	OK Cancel	

Total Bits	Total Number of Bits of the data. For ex Wiegand26 and the Total Bits is 26; th and the Total Bits is 34.	•	
Odd Parity Start Bit	Indicates the start number of Odd Parity.	Lengt h	Bits of Odd Parity.
Even Parity Start Bit	Indicates the start number of Even Parity.	Lengt h	Bits of Even Parity.
Card Number Start Bit	Indicates the start number of Card Number.	Lengt h	Bits of Card Number
Facility Code Start Bit	Indicates the start number of Facility Code.	Lengt h	Bits of Facility Code.

Take adding Wiegand26 and Wiegand34 as examples in the following three interfaces:

容 Edit					
Name	wiegand 2	26			*
Total Bits	26	*			
Odd Parity Start Bit	14	T	NO. Of Bits	13	
Even Parity Start Bit	1	T	VO. Of Bits	13	
Card Number Start Bit	2	* 1	NO. Of Bits	24	*
Facility Code Start Bit		, i	NO. Of Bits		
		ОК	Ca	ncel	

종 Edit					x
Name	wiegand	134			*
Total Bits	34	*			
Odd Parity Start Bit	17		NO. Of Bits	16]
Even Parity Start Bit	1		NO. Of Bits	16]
Card Number Start Bit	2	*	NO. Of Bits	32	*
Facility Code Start Bit			NO. Of Bits]
		ОК	Ca	ncel	

2	Wiegand	I								×		
	Wiegand Format											
A	Add Edit Delete											
	WG Bits	G Bits Odd Parity Bit			arity Bit	Car	d Code	Faci	lity Code			
	Total 🔺	Start Bit	Bits	Start Bit	Bits	Start Bit	Bits	Start Bit	Bits			
	26	14	13	1	13	2	24	0	0			
×	34	17	16	1	16	2	32	0	0			
							ОК		Cancel			

∞Note:

- (1) The number of bits start from left, and the first number is 1.
- (2) The length of Odd Parity + The length of Even Parity \leq Total Bits
- (3) The length of Card Number + The length of Facility Code ≤ Total Bits
- (4) It is **Both Odd Parity and Even Parity** if **Odd Parity Bit** or **Even Parity Bit** is not assigned; it is **Even Parity** if the **Odd Parity Bits** and **Even Parity Bits** are assigned.
- (5) It is Site Code if Card Number Bit or Facility Code Bit is not assigned; it is Facility Code if the Card Number Bits and Facility Code Bits are assigned; the Facility Code Bits and Card Number Bits should not duplicated.

After you choose it, make sure that Wiegand Input or Output format is selected for the door, click [OK] button. And then the configuration of the Wiegand Format is uploaded to the device, completing the Wiegand Input and Output configuration.

6.6 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] > [Interlock] > [Add] to enter the interlock setting edit interface.

윤 Add	×					
Device	inbio460 👻 *					
Interlock Combination	Interlock between doors 👻 *					
	Interlock between doors 1 and 2					
	Interlock between doors 3 and 4 Interlock between doors 1, 2, and 3 1-2 and 3-4 two interlocking two interlocking					
	Interlock between doors 1, 2, 3, and 4					

2. Select device to show interlock settings. Since one device can only correspond to one interlock setting record, when adding, interlocked devices cannot 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 cannot 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.

6.7 Anti-Passback Settings

Currently anti-passback settings support in and out anti-passback. In some special occasions, it is required that the one who verify and enter from a door must exit and verify

from the same door, with the entry and exit records strictly consistent. For example, one who follow another to enter the door without card punching will be denied when trying to exit by card punching, and one who follow 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] > [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 a one-door control panel: Anti-passback between readers of door 1.

Controller anti-passback

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

add (전)		×
Device	MultiBio 700 💌	•
Anti-Passback Combination	No anti-passback 🔹	*
	Anti-Passback between readers of door 1	
Master In/Out State	Anti-Passback between readers of door 2 Anti-Passback between readers of door 1 or 2	*
	Anti-Passback between readers of door 1 and 2 OK Cancel	
	Ont	

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

윤 Add		×
Device	inbio460 👻	*
Anti-Passback Combination	Door 1-Door 2 Anti-Pass 🔻	•
	Door 1-Door 2 Anti-Passbac Door 3-Door 4 Anti-Passbac Door 1-2-Door 3-4 Anti-Pass Door 1/2-Door 3/4 Anti-Pass Door 1-Door 2/3 Anti-Passb Door 1-Door 2/3/4 Anti-Pass Anti-Passback between rea Anti-Passback between rea Anti-Passback between rea Anti-Passback between rea	ck sback sback ack sback ders of door 1 ders of door 2 ders of door 3

≈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.

Standalone SDK Machine anti-passback



3. Select anti-passback settings (it needs to choose Master In/Out State when the device is Standalone SDK Machine) 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 cannot 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.

6.8 Linkage Settings

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] > [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):

위 Add		×
Linkage Name		*
Device	•	*
Trigger Condition		*
Input Point Address	-	*
Output Type	Lock -	*
Output Point Address	-	*
Action Type	Close -	*
Delay	s(1-254)	
ОК	Cancel	

The fields are as follows:

Trigger Condition: Please refer to <u>6.11 Real-time Monitoring</u> or 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 1s ~ 254s (This item is valid when the action type is Open)

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 cannot 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.

6.9 First-Card Normal

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 [Access Control System] > [First-Card Normal] to show First-Card Normal Open setting interface.

Click [Setting] > [Add Door], selects the time zone of First-Card Normal Open, and click
 [OK] to save the settings.

🕄 Firs	t-Card N	ormal Open Setting	I.										
First-	Card Norm	al Open Settings				Select	ed Perso	onnel					
		Door	Acce	Access Control Time Zone				Personn	First Name	Last Na	Gender	Card Num	Departm
+1		inbio460-1	24小	24小时通行									
2		inbio460-2	24/]\	24小时通行									
						_							
				ෘ Add					×				
				0	G								
				Current Door		nbio460	-1	•					
				Access Time Zones		24小时通	行	•					
					_		_						
						ОК		Cancel					
Ac	dd Door	Edit	Delete Door	Add Personnel		De			on				Return

3. Select a door, click [Add personnel] 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 be 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 valid 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.

6.10 Multi-Card Opening

1. Multi-Card Opening Personnel Groups:

It is personnel grouping used to set Multi-Card Opening groups.

(1) Click [Access Control System] > [Multi-Card Opening] > [Multi-Card Opening Personnel Groups] > [Add] to show the following edit interface:

密 Add		×						
H		*						
Group Name		^						
Remarks								
Standalone device parameters								
Group No								
Group No								
Verify Type	Any 👻							
Group Timezone	aa 🔻							
	Valid on holiday							
	OK Cancel							
	Galicer							

Group name: Any combination of up to 50 characters that cannot be identical to an existing group name.

Standalone Device Parameters
Group Number: The ID of Personnel Group in device.

Verify Type: Verify Type of Standalone SDK Machine, including Fingerprint or Card and so on.

Group Time Zone: The time zone of group, the Time Zone with undefined Time Zone ID cannot be shown in the drop-down list.

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

Select	person	nel								Selecte	ed perso	nnel					
		pers 🔺	First N	Last Na	Gender	Card Nu	Departm					pers 🔺	First Na	Last Na	Gender	Card Nu	Departm
1		3	3		Male	5206246	公司名称	*		+1		1	1		Male	14626201	公司名称
2		5	5		Male	16208073	公司名称	U		2		2	2		Male	5205878	公司名称
3		6	6		Male	15662636	公司名称		>>	3		4	4		Male	15662635	公司名称
4		7	7		Male	15662637	公司名称										
5		8	8		Male	15662638	公司名称										
6		9	9		Male	15662639	公司名称		>								
7		10	10		Male	15662640	公司名称										
8		11	11		Male	15662641	公司名称		<								
9		12	12		Male	15662642	公司名称										
10		13	13		Male	15662643	公司名称										
11		14	14		Male	15662644	公司名称		<<								
12		15	15		Male	15662645	公司名称										
13		16	16		Male	15662646	公司名称										
14		17	17		Male	15662647	公司名称										
15		18	18		Male	15662648	小司乞称										

(2) Select a group, and click [Add a Team Personnel] to add personnel to the group:

(3) After selecting and adding personnel, click [OK] to save and return.

15662649 公司名称

15662650 公司名称

Male Male

≈Note:

19

19

16

A person can only belong to one group, and cannot be grouped repeatedly.

2. Multi-Card Opening:

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

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

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 conversely 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] > [Multi-Card Opening] > [Add] to show the Multi-Card Opening setting interface.

위 Add				×
Door options	inbio460-1		-	*
Combination Name				*
Standalone device pa	rameters			
Combination No			-	
Number of opening pe	ersonnel in each group			
group1	▼	0	×	Personnel
group2	•	0		Personnel
group3	•	0	-	Personnel
group4	•	0	-	Personnel
group5	•	0	-	Personnel
	ок			Cancel

Combination Number: The ID of combination in device.

∞Note:

When adding Standalone SDK Machine, a combination of five groups at most, that can add nine combinations at most.

(2) 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.

6.11 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).

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 open 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.

vrea All	•	Access Co	entrol [IP Add	d Device Iress Number	MultiBio 700 192.168.90.72	
0	0	0		Door t State		MultiBio 700-1 Receive Timeout	
nbi 0460-1	inbio460-2	inbio460-3	inbio460-4	MultiBio 7			

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:

lcon							
Status	Door alarming	Door closed when online	Door opened when online	Door sensor unset	Device banned	Door Offline	Door opening timeout

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.

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.

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 100 records.

6.12 E-Map

Before using the e-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 Positions] to save the current position, then the user can view the setting at the next time access.

🗿 Add Map				x
Map Name		*		
Map Path			Browse	
	ок		Cancel	

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).



∞Note:

Add doors on the map, the system supports to add multi doors at the same time. After door adding, user needs to set the door position on the map, and click [Save] after setting.

6.13 Reader Setting

Reader Name editing

Click [Access Control] > [Reader Setting], choose a reader, click [Edit], then input the reader

name.

	✓	Device Name	Door Name	Door Id	Reader Id		Reader Name	In/Out State
		inbio460	inbio460-1	1		1	inbio460-1 入	In
		inbio460	inbio460-1	1		2	inbio460-1 出	Out
3	V	inbio460	inbio460-2	2		3	inbio460-2 入	In
		inbio460	inbio460-2	2		4	inbio460-2 出	Out
		inbio460	inbio460-3	3		5	inbio460-3 入	In
i i		inbio460	inbio460-3	3		6	inbio460-3 出	Out
		inbio460	🗃 Edit	i de la companya de l	×	7	inbio460-4 入	In
		inbio460	ET FOIL		<u>^</u>	8	inbio460-4 出	Out
			Machine Name Door Name Reader Id Reader Name INOut State	Inbio460 3 Inbio460-2 In				
				Ok	Cancel			

∕≪Note:

The parameter is not for Standalone SDK Machine, because there is no In/Out state in it. There are two readers in a door of Controller and Standalone Access Control, representing in and out state. In Reports and Real-Time Monitoring, the reader names will be displayed in In/Out Status.

Reader Name Logs

Choose a reader, click Operating Logs, then you can check logs of the reader.

6.14 Auxiliary Setting

Auxiliary In/Out name editing

Click [Access Control] > [Auxiliary Setting], choose an auxiliary, click [Edit], then input the Auxiliary In/Out name.

R	b Edit	Operating Logs							
	~	Device Name	Printer Name		Aux No			Aux Name	In/Out State
1		inbio460	辅助输入1				1	辅助输入1	Aux In
2		inbio460	辅助输入2				2	辅助输入2	Aux In
3		inbio460	辅助输入3				3	辅助输入3	Aux In
4		inbio460	辅助输入4				4	辅助输入4	Aux In
۰5	~	inbio460	辅助输出1				1	辅助输出1	Aux Out
6		inbio460	辅助输出2				2	辅助输出2	Aux Out
7		inbio460	🖗 Edit			×	3	辅助输出3	Aux Out
8		inbio460	al curr			^	4	辅助输出4	Aux Out
			Machine Name Printer Name Aux No Name Auxiliary State	inblo460 辅助输出 1 <u>新助输出</u> Aux Out	1 1	Cancel			

Choose an auxiliary, click 🎽 👓 , then you can check logs of the auxiliary In/Out name.

7. Access Control Reports

Includes [Events Today], [Events the latest three days], [Events This week], [Events Last week], [Exception Events] 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>6.11 Real-time Monitoring</u> for details.

∞Note:

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

7.1 Events Today

Click [Reports] > [Events Today], it will displayed following interface, then will show intraday access control events records.

皆 Report	\$ Sea	Export 🍪 Cl	lear all logs	3									
	Tir	me period	2015-06-1	6 • 00:	00	2015-10	17 •	23:59	Personnel N	0.			
Exception Events	Ca	ard Number				Device Nam	e	•	Name				
	In/	Out Status		•		Event Descr	ption	•	Verify Mode		•		
Custom Reports									Search	Ca	ancel		
		Date And Time	•	Personnel N	First Name	Last Name	Card Num	Device Name	Event Point	Verify Mode	In/Out Sta	Event Description	Remarks
	١	2015-10-16 13:51	1:28				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	2	2015-10-16 13:51	1:22				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	3	2015-10-16 13:51	1:12				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	4	2015-10-16 13:48	3:37				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	5	2015-10-16 10:00	0:02					192.168.100.33	192.168.100.33	Others	None	Disconnected	
	6	2015-10-16 09:55	5:45				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	7	2015-10-16 09:47	7:10				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	8	2015-10-16 09:46	5:48				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	
	9	2015-10-16 09:46	5:38				15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Person not regis	

7.2 Exception Events

Click [Reports] > [Exception Events], it will show the access control exception events records.

皆 Report	*	E	Exp	port													
Report		Sea	arch														
Events Today		ті	ime pe	riod		20	15-06-	15 🕶 0	0:00	2015-10	-17 •	23:59	Personnel N	0.			
		С	ard Nu	umber	r					Device Nam	1e	-	Name				
		In	/Out S	totue				_		Event Desci	intion		Verify Mode		_		
Custom Reports			iou s	tatus				•		Event Desci	ipuon	•	verny mode				
oustonintepono													Search	C	ancel		
			Date	e And	Time		-	Personnel N	First Name	Last Name	Card Num	Device Name	Event Point	Verify Mode	In/Out Sta	Event Description	Remarks
		▶1	201	5-10-	15 14	:51:44		5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
		2	201	5-10-1	15 14	:30:24		5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
		3	201	5-10-1	12 07	:57:07		5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
		4	201	5-10-1	10 18	:00:41						192.168.100.33	192.168.100.33	Others	None	Opened Forcefully	
		5	201	5-10-1	10 17	:52:26		5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
		6	201	5-10-1	10 17	:52:19		5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
		7	201	5-10-1	10 17	:51:47		5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
		8	201	5-09-1	17 14	:56:10					373431	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Access Denied	
		9	201	5-09-1	17 14	:56:07					373431	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Access Denied	
		10	201	5-09-1	17 14	:56:04					373431	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Access Denied	

You can also through put in View the specified conditions access control abnormal events, such as search "Device Name" to display the relevant exception records as below:

Report		Export											
Report	Sea	irch											
vents Today	Ti	me period	2015-06	5-15 • 00	.00 -	2015-10-17	7 •	23:59	Personnel N	0.]	
	Ci	ard Number				Device Name		-	Name				
	In	Out Status		•		Event Descript	ion 192.16	8.100.33	Verify Mode			1	
ustom Reports							Inbio F4		Search	Ca	incel		
		Date And Time		· Personnel N	First Name	LastName	Card Num	Device Name	Event Point	Verify Mode	In/Out Sta	Event Description	Remarks
	+1	2015-10-15 14	51:44	5	eary		15214380	192.168.100.33	192.168.100.33	Card or pa	192.168.1	Unauthorized ac	
	2	2015-10-15 14	30:24	5	eary		15214380	192 168 100 33	192.158.100.33	Card or pa	192.158.1	Unauthorized ac	
	3	2015-10-12.07	57:07	5	eary		15214380	192.168.100.33	192.158.100.33	Card or pa	192.158.1	Unauthorized ac	
	4	2015-10-10 18	:00:41					192.168.100.33	192.168.100.33	Others	None	Opened Forcefully	
	5	2015-10-10 17	52.26	5	eary		15214380	192 168 100 33	192 168 100 33	Card or pa	192.168.1	Unauthorized ac	
	6	2015-10-10 17	52 19	5	eary		15214380	192 168 100 33	192 168 100 33	Card or pa	192.168.1	Unauthorized ac	
	7	2015-10-10 17	51:47	5	eary		15214380	192 168 100 33	192 168 100 33	Card or pa	192.168.1	Unauthorized ac.	
	8	2015-09-17 14	56 10				373431	192.168 100.33	192 168 100 33	Card or pa	192.158.1	Access Denied	
	9	2015-09-17 14	56.07				373431	192.168 100.33	192 168 100 33	Card or pa	192.168.1	Access Denied	
	10	2015-09-17 14	56:04				373431	192.168.100.33	192.168.100.33.	Card or pa	192.158.1	Access Denied	

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

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.

7.3 custom report

This function can be combined to view and export.

7.3.1 Add custom report

Click [Reports] > [custom report] > [Add]

Re	port	Nam	e 1			Rem	ark		
			Line		~			List	Line
	Þ	List	: Auxiliary input information		\sim	▶1		Auxiliary input info	Device ID
	ŀ	List	: Device Information		\sim	2		Auxiliary input info	Aux name
	Þ	List	: Door information			3		Event information	Device Name
	÷	List	: Event information	>>		4		Event information	verification mode
	÷	List	: Reader information	>					
	÷	List	: User Information						
				<					
								ОК	Cancel

click (OK). (mean move left, and mean move all)

7.3.2 Viewing Reports

Click [Reports] > [custom report] > [Viewing Reports]

🔁 Viewing Report	ts [2]															– 🗆 ×
query																
beginning and en	idin 2015-10	-20 +	00:00	201	5-10-20	▼ 23:59		user ID								
car number				device	name		•	User name								
in out state		•]	event ty	pe		•	family name								
verification mode		•]			re	set	query	Exp	port						
Uses TD	Deday No.	Marina	Gundar	Tale	Dhana Na	Prek de c	the states	<u>م</u> م	Ch.	Destands	- 60	Hanna Talaahaana	and the set films	Descend	Dhata	
User ID	Badge No.	Name	Gender	Title	Phone No.	Birthday	Hired day	Home Address	City	Postcode	office phone	Home Telephone	nationality	Password	Photo	operat

Set up the search terms, click on the [Viewing Reports] to view the report, click [Export] can export the report.

8. Time & Attendance

Please select a door or more in [Access Control] > [Door Setting] before using Time Attendance, or the report will be none.

8.1 System

	Net Lite				_ D X
System	Setup Attendance	Reports			
🔅 General					
Overt	ime(OT) Setting				
	OT Level1	OT Level2	OT Level3		
Daily	8 🗘 (H)	11 🔹 (H)	14 ‡ (H)		
Satur	day counts towards:	Work O OT Lev	el1 🔘 OT Level2	OT Level3	
Sund	ay counts towards:	Work O OT Lev	el1 OT Level2	OT Level3	
	action Setting inimum time between two 5 ‡	punches (1-30 Minutes)			
-Date a	and Time Format				
	e Format	Time Format			
MM	I/dd/yyyy ▼	HH:mm 🔻			
				Save	
				Save	

Overtime Setting: Set overtime levels 1, 2, and 3 to different lengths of work time and set whether the weekend overtime is included into the weekday work time if the weekday work time falls short of the normal work time.

You can set three types of overtime.

The three types of overtime are calculated as follows:

Assume that the values of Time1 to Time6 are specified as follows:



If an employee's actual daily working hours are greater than time 1 but less than time 2, the overtime at OT Level 1 is the daily working hours minus time 1. If the actual daily working hours are greater than time 2, the overtime at OT Level 1 is time 2 minus time 1, and the overtime at OT Level 2 is the daily working hours minus time 2. The overtime between time 2 and time 3 can be calculated in the same way.

The following example is used to explain how overtime is calculated using the values specified in the preceding figure.

If an employee works 9 hours a day, he/she has 1-hour overtime (9 minus 8) at OT Level 1. If the employee works 12 hours one day, he/she has a total of 4-hour overtime, 3-hour overtime (11 minus 8) at OT Level 1 and 1-hour overtime (12-11) at OT Level 2. If the employee works 15 hours one day, he/she has a total of 7-hour overtime, 3-hour overtime (11 minus 8) at OT Level 1, 3-hour overtime (14-11) at OT Level 2, and 1-hour overtime (15-14) at OT Level 3.

Saturday Counts towards: specifies how the work time on Saturday is calculated. The work time on Saturday can be included into the normal work time or one of the three types of overtime, whichever you select.

Sunday Counts towards: specifies how the work time on Sunday is calculated. The work time on Sunday can be included into the normal work time or one of the three types of overtime, whichever you select.

Minimum time between two punches: This is the minimum time period (in the unit of minutes). If two checks are recorded within this time range, only the time of the first check is recorded in attendance check.

Date And Time Format: Set date and time formats for the system You can select nine types of date formats in the drop-down box as shown in the following figure. You can select two types of time formats, as shown in the above figure.

8.2 Setup

8.2.1 Company Management

You need to describe the organizational structure of your company before you manage staff. You can set the company profile in the Companies menu.



to access company management.

🕐 ZKTime.l	Net Lite	_	
System	Setup Att	endance Reports	
Companies	OPay Code	Time Period Shift Employees	
Companies		😡 Help 🛛 📓 Save	
Code	Name	General Holiday	
1	Company	General Photo size(270*145) Company Code I Company Name Company No image data Clear Address Address1 Address2 I	
		City State	
		Country Postal Fax Phone	
		Email Website	
Records:1			

Step 1: Set general parameters.

Company Code: Is generated by the system automatically.

Company Name: Set the name of your company.

Logo: Select a picture as the logo of your company.

Specify company address information, including parameters such as Address, City, Country, Fax, Email, State, Postal, Phone, and Website.

Step 2: Set holidays.

The holiday setting facilitates attendance calculation.

Click **Holiday**. The following page is displayed.

O ZKTime. System		endance Rep	oorts							_ _ X
Companies	Pay Code	Time Period	Shift	Emplo						
Companies		😡 Help	Save							
Code	Name	General	Holiday							
1	Company	<		Today	October		•	2015	Holiday Type	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat		 Items
		27	28	29	30	1	2	3	Count Work Time	O OT Level2
			5	6	7	8	9	10	O OT Level1	O OT Level3
		11	12	13	14	15	16	17	Apply to Days	View All
		18	19	20	21	22	23	24		
		25	26	27	28	29	30	31		
		1	2	3	4	5	6	7		
Records:1									1	

1. Click Items

to set holidays, as shown in the following figure.

Code Name Image: Code 1 AAA Image: Code 2 New Year Image: Code 3 DD Image: Code	🕑 Holiday T	'ype Edit			
1 AAA Image: Constraint of the second secon			\odot		
2 New Year 💿 🥥	1	AAA	\bigcirc	0	
3 DD 💿 👄			\bigcirc	0	
	3	DD	0	0	

Click (2), add a holiday, and enter the name of the holiday. After you set all holidays required, close the Holiday Type Edit window and select a holiday type from the Holiday Type drop-down list.

2. Set the holiday period.

If you need to select only one date, click a date in the date table and schedule shifts for the date. If you need to select multiple dates, hold down the Ctrl key and click the dates required or drag the mouse to select the dates required.

3. Set Count Work Time. When employees are present at work during the specified holiday, select this option and select the mode of salary calculation.

After you set the preceding parameters, click Apply to Days. The added holiday will be displayed in the left list.

8.2.2 Pay Code

You can define the type of salary payment.

Click Pay Code . The following page is displayed.

🕑 ZKTime.	Net Lite					
System	Setup Atte	ndance Rep	orts			
Companies	S Pay Code	Time Period	📆 Shift	2 Employee	es	
Pay Code		😡 Help	📀 Add	🔚 Save	🔵 Delete	e
Code	Name					_
1	Total	Code		1		
2	Work	_				
3	OT Level1	Descr	iption	Total		
4	OT Level2					
5	OT Level3					
6	Late Come					
7	Early Out					
8	Absence					
9	Break					
10	Holiday					
11	Sick					
12	Vacation					
Records:12						

Set all parameters that need to be included in the attendance check summary, such as Total Work Hours, Regular Hours, overtime1, Late Come, Early Out, absence, and exception. Each of the parameters has the following settings:

Code: a number automatically assigned by the system to the pay code.

Description: specific description of the pay code.

You can add pay codes and edit or delete user-defined pay codes.

8.2.3 Time Period

You can set all time period that may be used in the Time period menu and assign time period to departments or employees in the Schedule menu. The on-duty time, off-duty time, and rest time of an employee are determined by the setting of the time period assigned to the employee.

Click **Time Period**. The following page is displayed.

🕐 ZKTime.Net Lite		
System Setup Attend	dance Reports	
. 5		
Companies Pay Code T	Time Period Shift Employees	
Time Period	🚱 Help 🔹 Add 🔚 Save 👄 Delete	
Name	General Rounding Setting	
Default	Time Period Name Default Flexible Base Start 08:00 ‡ Before Checkin 120 ‡ End 18:00 ‡ After Checkout 240 ‡ Additional	
Records:1		

General

Time Period Name: The name of the time period.

Time Period Start: The time of day employees in this time period are scheduled to begin work.

Time Period End: The time of day employees in the time period are scheduled to stop working.

∠Note:

You can schedule day and night shifts.

Before Checkin: The time range before the check-in time, out of which employees' check-in is invalid. For example, if the check-in time is 07:00 and the Before Check In is set at 60 (minutes), checking in before 06:00 is invalid.

After Checkout: The time range after the check-out time, out of which employees' check-out is invalid.

For example, if the check-out time is 17:00 and the After Checkout is set at 30 (minutes), checking out after 17:30 is invalid.

Count late: defines the time interval (in the unit of minutes) between the time when office hours start and the start time when check-in is considered late.

Count early: defines the time interval (in the unit of minutes) between the time when office hours end and the start time when check-out is considered early.

Break: for each break code, you may define up to two break slots. You must specify the start and end time for each of the slots, as well as whether any incident applies (optional).

Break Manage

Click Manage. The following page is displayed. You can add, edit, and delete break slots.

🕒 Break Manage		×
Code Name	🕑 Help 💿 Add 🔚 Save 👄 Delete	
	Break ID Break Name Start Time End Time Break (mins) 0 0 0 0 0 0 0 0	
	 Paid AutoDeduct Must Punch 	

Break ID: A break code automatically generated by the system.

Break Name: The name of the break.

Start Time: The break start time.

End Time: The break end time.

Break (mins): After you enter time in From and To, the system automatically counts the break time period.

Paid: The break time belongs to work time regardless of whether you are at work or not during break.

AutoDeduct: Once the shift type Flexi is selected, it is necessary to set "Minimum Auto Deduct Time" when you choose AutoDeduct option. If your actual work time is greater than or equals to the Minimum AutoDeduct Time (your actual work time is the time during you first check in and last check out), and your actual break time is less than scheduled break time, the insufficient break time would still be deducted from your actual work time.

Must Punch: You must punch when the break starts and ends.

② ZKTime.Net Lite _ **D** X System Setup Attendance Reports 6 11.91 2 Companies Pay Code Time Period Shift Employees 😡 Help 📀 Add Save Delete Time Period Name General Rounding Setting Default Rounding Checkin Checkout Round Value 10 🗘 Mins 10 🗘 Mins 5 🗘 Mins 5 🗘 Mins Round Down 5 🗘 Mins 5 🗘 Mins Round Up Round Rule Records:1

Rounding Setting

✤ Rounding

Round Value In/Out: The minimum round-off unit of working hours. As shown in the previous figure, if the Round To = 10, take 10 minutes as the minimum unit when counting the working hours.

Round Down In/Out: Round up values greater than the Round Down value. Round down values smaller than or equal to the Round Down value. In and Out correspond to check-in and check-out respectively.

Round Up In/Out corresponds to Round Down In/out respectively.

∕≪Note:

Round Down In/Out + Round Up In/out = Round To. The system allows you to change only the value of Round Down In/Out and Round To.

Assume that the time period set in the preceding figure are assigned to employees.

If an employee checks in at 08:02 and checks out at 17:55 in this time period mode, the system rounds down the check-in time as 08:00 and rounds up the check-out time as 18:00. This means the employee is allowed to check in 2 minutes later or check out 5 minutes earlier than the required time.

🌣 Round Rule

The number of minutes before the Time period Start Time or after the Time period End Time in which employees transactions will be treated as if they occurred exactly at the Start or End times.

Tick Round Rule, click 💿 and add a rounding rule, and input corresponding data.

Set an attendance time range on this interface. Start Time \leq Round time \leq End Time is required. As for any attendance time during this time range, the system records it as the time in Round Time. Click Add to continue adding Round Time.

For example, enter 07:05 in Round Time, 07:00 in Start Time, and 07:10 in End Time. After the setting is completed, the system records any attendance time in the range of 07:00 to 07:10 as 07:05.

∕ SNote:

Avoid setting Round Time as Time period Start or Time period End. The time range of Start Time to End Time must be Start Time to End Time < Time period Start or Time period Start < Start Time to End Time < Time period End or Start Time to End Time > Time period End.

8.2.4 Shift

To schedule shifts, perform the following steps.

Step 1: Set the attributes of shift scheduling, including shifts and dates of the shifts and the use of cyclic shift scheduling.

Step 2: Assign the configured shifts to departments or a single employee.

Specific operations:

Click Shift . The following page is displayed.

im 🗿 Companies Pay Code 1	Time Period	T Shift	Semployee:	5				
nift	😡 Help	🖸 Add	Save	Delete	💐 Assign			
Name Default	Shift Name	Def	ault			C)	/cle Shift	
Default			Today	October		→ 20)15 ‡ 🔊	Pay Code
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
	27	28	29	30	1	2	3	Time Period
	Work OFF	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	Work OFF	Default(08:00-18:00) •
	4	5	6	7	8	9	10	Apply to Days
	Work OFF	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	Work OFF	
	11	12	13	14	15	16	17	
	Work OFF	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	Work OFF	
	18	19	20	21	22	23	24	
	Work OFF	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	Work OFF	
	25	26	27	28	29	30	31	
	Work OFF	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	Work OFF	
	1	2	3	4	5	6	7	
	Work OFF	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	08:00-18:00	Work OFF	

Click the date(s) for shift scheduling in the date table and set corresponding parameters on

the right of the date table. Click Apply to Days. Shifts on the selected date(s) are scheduled. If you need to schedule the same Time Period on multiple dates, hold down the Ctrl key and click the dates required or drag the mouse to select the dates required.

Shift Name: name of a shift schedule

Pay code: whether to define the type of salary payment.

Time period: Time Period to be scheduled

Cycle Shift: whether cyclic shift scheduling is required. If an employee's work time repeats

in a cycle, you can click **Cycle Shift** to set the time of the cycle.

Start Date	12/31/2012	•	Cycle Type	Week	 Cycles 	1 🗘	Save
lay			Time Period		Pay Code		
Ionday			Default(08:00-18	:00)			
uesday			Default(08:00-18	:00)			
Vednesday			Default(08:00-18	:00)			
hursday			Default(08:00-18	:00)			
riday			Default(08:00-18	:00)			
aturday			Default(08:00-18	:00)			
unday			Default(08:00-18	:00)			

Start Date: Set the start date of the cycle.

Cycle Type and Cycles: Set the type of the cycle, which can be set to daily or weekly.

Assign shifts to departments or employees.

Click **Assign**. The following page is displayed.

 Help Save Company filaf1 1 10 100 1000 	🕑 Shift Assign		x
 Company filaf1 3. 1 3. 100 3. 100 3. 1000 3. 1000 3. 1000 3. 1001 3. 1001 3. 1002 3. 1002 3. 1002 3. 1003 3. 1004 3. 1005 3. 1005 3. 1006 3. 1007 3. 1008 	😡 Help	📕 Save	
 filaf1 10 100 1000 1000 1000 1000 1000 1001 1002 1002 1003 1004 1005 1005 1006 1007 1008 	Q		
 3. 1 3. 10 3. 100 3. 1000 3. 1000 3. 1001 3. 1001 3. 1002 3. 1002 3. 1004 3. 1004 3. 1005 3. 1006 3. 1007 3. 1008 	- 🗌 🎚 Company		*
 ✓ 3. 10 ✓ 3. 100 ✓ 3. 1000 ✓ 3. 1000 ✓ 3. 1001 ✓ 3. 1002 ✓ 3. 1003 ✓ 3. 1004 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 	🚽 🗌 🥔 fjlaf1		0
 ✓ 3. 100 ✓ 3. 1000 ✓ 3. 1000 ✓ 3. 1001 ✓ 3. 1002 ✓ 3. 1003 ✓ 3. 1004 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 	🗸 🚣 1		
 ✓ 3. 1000 ✓ 3. 10000 ✓ 3. 1001 ✓ 3. 1002 ✓ 3. 1003 ✓ 3. 1004 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 	🗹 🚄 10		
 ✓ 3. 10000 ✓ 3. 1001 ✓ 3. 1002 ✓ 3. 1003 ✓ 3. 1004 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 			
 ✓ 3. 1001 ✓ 3. 1002 ✓ 3. 1003 ✓ 3. 1004 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 			
 ✓ 4. 1002 ✓ 4. 1003 ✓ 4. 1004 ✓ 4. 1005 ✓ 4. 1006 ✓ 4. 1007 ✓ 4. 1008 	🗹 🚣 10000		
 ✓ 4. 1003 ✓ 4. 1004 ✓ 4. 1005 ✓ 4. 1006 ✓ 4. 1007 ✓ 4. 1008 	🗹 🚄 1001		
 ✓ 3. 1004 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 			
 ✓ 3. 1005 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 	🗹 🚣 1003		
 ✓ 3. 1006 ✓ 3. 1007 ✓ 3. 1008 			
 ✓ 1007 ✓ 1008 			
🗹 🚨 1008			
V 2. 1000			
A 100A	🗹 🚣 1009		-

Select the departments or a single employee to which shifts will be assigned and click [Save].

System Setup Atten	dance Reports	;						
I Companies Pay Code	Time Period	Shift E	2 mployees					
hift	🕖 Help 🛛 📔	Save 🔡	Save 💿 D	elete 🛛 💐 As	sign 🛛 💐 Ass	ign		
Name								
Default	_							
	٠	Тос	Jay Octol	ber		2015 🌲		Pay Code
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Total
	27	28	29	30	1	2	3	Time Period Default(08:00-18:00)
	4	5	6	7	8	9	10	Apply to Days
	11	12	13	14	15	16	17	1
	18	19	20	21	22	23	24	1
	25	26	27	28	29	30	31	1
	1	2	3	4	5	6	7	

8.2.5 Calendar (Schedule shifts for employees)

1. Click the date(s) for shift scheduling in the date table. If you need to schedule the same shift on multiple dates, hold down the Ctrl key and click the dates required or drag the mouse to select the dates required.

- 2. Pay code: type of salary payment
- 3. Time Period: shift to be scheduled

Click Apply to Days to schedule the shift.

8.3 Attendance Record Processing

You can upload attendance records by using a USB drive or connecting to the device, add attendance records and exception records, and work out the attendance result. Reports can be generated after attendance records are processed.

8.3.1 Punches

You can check attendance records, import attendance records to the system, and export specified attendance record from the system.



) ZKTime. System	Net Lite Setup	Atten	lance	Reports									2
•		Attent	ance	Reports									
Punches	Exceptio		n										
mployees			0	From	10/11/2015	•	То	10/17/2015	•	Search	Import	Export	
Search by	ID/Name			lumber	Name	Dura	ch Time	Work State	Terminal	Dung	n Type		1
🛛 🗐 Compar		*	N	umber	Name	Pun	in nine	WORK State	Terminal	Punci	туре		
+ 🗌 🤗 fjlaf:		0											
3													
🗆 🕰 1													
L 2, 1													
🗆 🚣 1	002												
🗆 🚄 1													
🗆 🚣 1													
🗆 🕰 1 🗆 🕰 1													
L 2, 1													
🗆 🚣 1	.01												
🗆 🚄 1													
🗆 🕰 1													
🗆 🚣 1													
🗆 🕰 1													
L 🕰 1													
🗆 🚣 1	019												
🗆 🚄 1	02	-											

Step 1: Select an employee in the left list, whose attendance records you need to export.

Step 2: Specify the start date and end date of the attendance records to be exported from the Start Time and End Time drop-down lists.

Step 3: Click **Search**. All attendance records of the selected employee maintained during the specified period will be displayed in the list below.

Step 4: Click [Export].

If you need to import attendance records, click [Import]. You can only import attendance records from the local computer.

🕑 Punche	es Import Wizard				x
	le type and impo t the type and name	imported.			
	un est file Ture e				
	xport File Type				
٢	MS Excel				
0	Text File				
0	CSV File				
Sou	urce File			Select	
			Back	Next	Cancel

You can import attendance records in the MS Excel, Text File, and CSV File formats. Select a format and the file to be imported. Click [Next] and wait until the file is imported successfully.

8.3.2 Exceptions Assign

You can set exceptions (such as sick leave and vacation) during normal workdays for employees.

Click Assign. The following page is displayed.

stem Setup	Attendar	ce Reports						
-	son Assign							
nployees	0	Pay Code	Sick	▼ Fro	m 00:00	\$	To 00:00	Assign
Search by ID/Name								
🗌 🗐 Company	^	۰	Today	October		• 201	.5 ‡	>
→ □ → fjlaf1 □ → 1	0	Sun	Mon	Tue	Wed	Thu	Fri	Sat
2, 10 2, 10 2, 100		27	28	29	30	1	2	3
		4	5	6	7	8	9	10
2, 1003 2, 1004 2, 1005		11	12	13	14	15	16	17
2 , 1006 2 , 1007 2 , 1008		18	19	20	21	22	23	24
2, 1009 2, 101 2, 1010 2, 1010		25	26	27	28	29	30	31
1011 1012 1013 1013 1014		1	2	3	4	5	6	7
2, 1014 2, 1015 2, 1016 2, 1017 2, 1018 2, 1019 2, 102								

Step 1: Select an employee in the left list, for whom you need to set an exception.

Step 2: Select a date in the calendar, to which the exception will be assigned.

Step 3: Specify Pay Code, Start time, and End time above the calendar and click

Assign

8.4 Report Processing

You can generate, print, and export different types of reports (including employee information, attendance records, and salaries) in the Reports Menu. You can also generate a report for the specified employee and work out the attendance result of the employee during the specified period.

8.4.1 Attendance Calculation

You can work out the attendance result after you have downloaded, modified, and supplemented attendance records.

Click Calculate. The following page is displayed.

CKTime.Net Lite System Setup Atten	dance Rep	orts						
Calculate Attendance Rep	port							
Employees	From	06/11/2015	▼ To	10/17/2015 -	Calcula	ite	Modify Punch	
Q Search by ID/Name	Number	Name	Date	Time Period	Checkin	Checkout	Rounde Summary	Minute
🗹 🖩 Company 📩								
- √@ fjlaf1 🛛 🕕								
2 1								
✓ 🕹 10 ✓ 🗳 100								
✓ 4 100 ✓ 4 100								
✓ ♣ 1000 ✓ ♣ 10000								
V 4 10000								
1001								
V 🕹 1003								
X 🕹 1004								
A 1005								
🗹 🚣 1006								
🖌 🌲 1007								
V 🕹 1008								
1 009								
1 01								
✓ 🚣 1010 ✓ 🚣 1011								
V 🕹 1011 V 🕹 1012								
V 🗸 1012 V 🕹 1013								
V 4 1013								
1 014								
1016								
V 🕹 1017								
🗹 🚣 1018								
🖌 🚣 1019								
- V 🚨 102	4						•	

Step 1: Select an employee in the left list, for whom you need to work out the attendance result.

Step 2: Select the date when you will perform attendance calculation from the Date drop-down list.

Step 3: Click Modify Punch if you need to supplement the attendance records of some

employees.

🕑 Punches Modify						2
Employees	😡 Help 🛛 🔾 Ac	d 🔚 Save	Delete			
Q Search by ID/Name]					
Company	Date	06/10/2014	 Time 	00:00 🌲		
🗸 🗌 🥔 Sunshine Company 🛛			_			
🗆 🚑 1	Work State		*			
🗆 🚣 10	Number	Name	Punch Time	Work State Terr	ningl Dunch Tung	
🗆 🚣 100	Number	Name	Punch Time	work State Ten	ninal Punch Type	
. 101						
102						
103						
104 4 105						
2, 106 2, 107						
□ ♣ 107 □ ♣ 108						
108						
L 49 109						
2.11						
3 11						
🗆 🕰 110						
3451 10 341 11						
2, 110 2, 111 2, 112						
2, 110 2, 111 2, 112 2, 112 2, 113						
2,110 2,111 2,112 2,113 2,114						
2, 110 2, 111 2, 112 2, 112 2, 113						

1) Select an employee in the left list, for whom you need to add attendance records, and click [Add].

2) Specify the date and time of adding attendance records, work code and work state of the employee, and reason for adding attendance records. Click [Save].

Step 4: Click **Calculate** after you have set the preceding information. The result of attendance calculation will be displayed in the list below.

8.4.2 Attendance Report

Click Attendance Report, the following page is displayed.

🕐 ZKTime.	Net Lite										_	x
System	Setup	Attend	dance	Reports								
		-										
Calculate	Attenda	nce Rep	oort									
Attendance F	Report		🕑 Help	🔾 Add	Save	Delete	🔎 View					
Attendance F # ITransactio # In Out Nei # Daily Total # General Re # Total Time # Personal A # Early Out F # Late Come # Absence R # Exception # Hours Surr # TimeCard I	ns Report rizontal Report Report acard Report acard Report Report a Report seport Shift Report Report nmary Report	t Report t	Tit	le om Date	Transaction 10/17/2015	s Report	To Date	10/17/2015	×			
°, 📟 🐁 👕 🗸												

Report template: There are 11 types of report templates, which are Transactions Report, Daily Totals Report, Time Card Report, Total Time Card Report, Early Out Report, Late Come Report, Absence Report, Employee Shift Report, Exception Report, Hours Summary Report, and Time Card List Report.

Title: Set the title of the report. The default title is the title of the report template.

From/To Date: Select the start date and end date of the report.

Filter: Select the range of employees to be displayed in the report.

After you set the preceding information, click [Save]. You can click *view* to check the report.

		3, 100% ▼ 3, 14 4 1					
		+ ! P					
ID Full Name Date/Time State Punch Type							
1	1	05/29/2014 20:20	Checkin	Normal			
	I						

9. 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.

9.1 User & Role 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 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:

Permissions	Browse	Control
Personnel		
Device management		
Access Levels		
Real-Time Monitoring		
Reports		
user management		
System manage		

(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:

휜 Add		
Username	*	
Password	*	
Confirm Password	*	
Role	administrator 🔹 *	
Remarks		
Status	🖲 Normal 🔘 Disable	
	OK Cancel	

Username: Not more than 50 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.

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

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.

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.

9.2 Database Management

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

9.2.1 Set Database

This Function mainly used for database change. System database is MS Access by default. If need change to MS SQLServer database, firstly, you should establish the empty database on the database server. You can find a script file with the name of sqlserver.sql in the directory of installing CD. The empty database establishes in the front of the searcher of SQL Server, and then opens the sqlserver.sql script files, to run database that is to create this system.

Click [System] > [Database Management] > [Database Connection] to enter following interface, select corresponding database and click [Next], Microsoft SQL Server is a good point case. And then fill in database relevant information, click [OK], whether restart device that popup in the box select [Yes]. After restart can be change database.



9.2.2 Backup Database

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

Click [System] > [Database Management] > [Backup Database] to backup database.

⊯×Note:

We recommended backing up the database after you create the personnel file, device

information or part of access control level settings.

9.2.3 Restore Database

Click [System] > [Database Management] > [Restore Databases], [Open] to select a successfully backed up database from the backup database list. In the pop-up Windows, click [Yes], system can be restart, it begin database restoration in process.

∞Note:

Don't close any command window prompt during the database restore process.

9.2.4 Database Backup Path Configuration

Click [System] > [Database Management] > [Database Backup Path Set], the edit interface appears:

🕄 Database Backup Path			×
Database Backup Path			Browser
🔲 Backup Database When Exit S	Software		
		OK	Cancel

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

≈Note:

- (1) In system 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 or desktop.

9.3 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 [System] > [System Initialization], enter into edit interface, select one or several data-sheets to initialize, and click [OK] to complete initialization and return.

ອ System Init	×
All Person Report Device Access Control System	
ОК	Cancel

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 status.

Select to initialize Person: After selection, it will initialize data of Department, Personnel, Issue Card, and only reserve system default settings.

Select to initialize Device: 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.

Select to initialize Access Control: After selection, it will initialize Interlock, Anti-passback, Linkage settings, First-Card Normal Open and Multi-Card Opening (including Multi-Card Opening Personnel Group Setting), Access Control Time Zones, Holidays and Access levels. All data will be restoring initial state.

Select to initialize System: After selection, it will initialize Role, User etc., and only reserve system default settings.

Select to initialize Report: After selection, it will initialize all events records.

≈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.

9.4 System Parameter Setting

Click [System] > [System Parameter Setting], it will show the interface as below. The user can free fixed time for new entries. Besides, you can set time of reconnect and set the font.

🕄 System Parameter Setting		×
Time for obtaining new logs	: Format:21:31 (24 hours for	mat)
Reconnect interval	2	minutes
label1	15 Second	initiae 3
	Font Setting	
System Fonts	<u>Fond Setung</u>	
	OK	Cancel

10. Appendixes

Appendix 1 Common Operation

1. Select date

Click [Access Control] > [Holidays] > [Add] to enter edit interface:

위 Add							×	
Holiday Name							*	
Holiday Type	Holi	day 1	Туре	1		•	*	
Start Date	201	<mark>5</mark> -10	-17			•	*	
End Date	•	F		/, Dec Decei				3
Recurring		in M		Tue				i Sat
Remarks		27	28		30	1		3
Standalone device parame		4	5	6	7	8	9	10
Holiday No			12		14			17
Tionday No		18	19			22		24
Holiday Timezone			26		28			31
		1	2	3	4	5	6	7
	0	К			Can	cel		

Defaults to the current date, if needs to change it, refer to the following steps.

Select the year. Click December, 2013 (if the span is longer, click it double or three times),

then click \bigcirc or \bigcirc button to select the year you need.

Select the month. Click or or button to select the month you need

Click the desired date.

Also you can directly to edit Year, Month and Date in editing box.

2. 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:

寶 Import			×
File Format Import File	Excel	⊚ Txt	Browser
Separator		Next	Cancel

Description of items:

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

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

Choosing corresponding import field, real means select all, real means single selection,

means cancel the mouse options, and means deselect all.

≈Note:

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.

3. Export data (taking exporting Device as an example):

(1) Click [Device] > [Device], and tick up a device, then right click [export] to show the interface:
export file path	×
🕞 🕢 マ 🛅 ► admin ► Contacts	- 🤣 Search Contacts 🔎
Organize 🔻 New folder	⊾= ⊻= ▼ (0)
▲ Contacts ▶ Documents ▶ Music ▶ Pictures ▶ Videos ■ Admin ■ admin ■ admin ■ Desktop ▶ Downloads ▶ Favorites ■ Links	No items match your search.
File name: Personnel_20151017094816.xls	-
Save as type: Excel files (*.xls)	
) Hide Folders	Save Cancel

There are two ways to hide some fields with no need to export:

(1) Tick up an item, left-click the field which to be hided, drag the field down and release the mouse button, then the field will be hided.

Personnel 🔺	First Name	Last Name	Card Number
1	1		14626201
2	2		5205878
3	3		5206246
4	4		15662635
5	5		16208073
6	6		15662636
7	7 🖕		15662637
8	8		15662638
9	9		15662639
10	10		15662640

(2) Right-click the field which to be hided and select [Remove This Column].

Card Num +	Department.	2 Sort Asce	adian
15662670	1		
15662669	1	A+ Sort Des	
15662668	1	Clear All	Sorting
15662667	1	B Group B	y This Column
15662666	1	E Show Gr	oup By Box
15662665	1		
15662664	1		This Column
15662663	1	Column (Chooser
15662662	1	Best Fit	
15662661	1	Best Fit (all columns)
15662660	1	P Filter Edit	tor
15662659	1	Show Fin	d Panel
15662658	1	Show Auto Filter Row	
15662657	1	JIGI I	indice indice
15662656	1	fjlaf1	Male

≈Note:

If need to show the hidden field, can put the mouse on the list head, right-click select [Column Chooser] in popup menu, it will display "customization field box" at interface lower right corner, and drag reductive field to the list head.



(3) Selects the format of exported file: If PDF format is selected there will be no file code

option (namely, there is no difference between Simplified and Traditional Chinese). Click [Export] to directly show the exported file.

If TXT or EXCEL 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.

≈Note:

When importing department table, exported table is the list currently shown.

4.The use of data list (taking Personnel as an example)

ent Nu	Department Na	AU Sort Ascending
	fjlaf1	
	fjlaf1	Sort Descending
	fjlaf1	Clear All Sorting
	fjlaf1	😑 Group By This Column
	fjlaf1	💾 Hide Group By Box
	fjlaf1	
	fjlaf1	Remove This Column
	fjlaf1	Column Chooser
	fjlaf1	Best Fit
	fjlaf1	Best Fit (all columns)
	fjlaf1	Filter Editor
	fjlaf1	Show Find Panel
	fjlaf1	Show Auto Filter Row
	fjlaf1	Show Auto Filter Now

right-click the list top,and choose[Hide Group By Box]

The column will (Group) drag to [Drag a coumn header here to group by that column], as shown below:

Drag a d	Drag a column header here to group by that column							
	9	Department Na	Personnel Num	First Name	Department Nu	Gender	10.0 FP Qty	9.0 FP Qty
۱ ا		fjlaf1	1	1	1	Male	1	0
2	~	fjlaf1	2	2	1	Male	2	0
3		fjlaf1	3	3	1	Male	1	0
4		fjlaf1	4	4	1	Male	1	0
5		fjlaf1	5	5	1	Male	0	0
6		fjlaf1	6	6	1	Male	0	0
7		fjlaf1	7	7	1	Male	0	0
8		fjlaf1	8	8	1	Male	0	0
9	~	fjlaf1	9	9	1	Male	0	0
10		fjlaf1	10	10	1	Male	0	0

Then as shown below

First	Name 🔺					
	Department Name	Personnel Number	Department Number	Gender	10.0 FP Qty	9.0 FP Qty
	First Name:					
	First Name: 1					
	First Name: 10					
	First Name: 100					
	First Name: 1000					
	First Name: 10000					
	First Name: 1001					
	First Name: 1002					
	First Name: 1003					
	First Name: 1004					
	First Name: 1005					
	First Name: 1006					
	First Name: 1007					

Also can put mouse to icon *icon* at list head, the icon will turn into *icon*, and then click *a*, select [Custom], according to the conditions for search operation as following:

🛃 Custom AutoFilter		
Show rows where:		
Department Name		
Is like	 (Enter a value) 	
) And Or		
(Select an operator)	 (Enter a value) 	
0	OK Cancel	

Fill in the corresponding inquires can search relevant conditions. Also can put mouse to list head, right-click and popup the menu as below, and then process Sort Ascending, Sort Descending, Group By This Column function etc,.



Appendix 2 Real-Time Event Description

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.

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.

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.

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.

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: 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 closes 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 selects 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 selects 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 triggers this normal event, and this event cannot display on the real-time monitor, but you can check it in the event report.

Abnormal Events

Too Short Punch 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 (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 (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.

Unregistered Card: Refers to the current card is not registered in 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, cannot 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 cannot close the door through [Remote Closing] operation, and trigger this abnormal event.

Appendix 3 < END-USER LICENSE AGREEMENT>

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Appendix 4 FAQs

Q: 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 cannot achieve departure restoration, namely, this person cannot 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" menu 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 open, then modify the department.

3. On personnel transfer interface, click Add to open 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" menu 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, tick the personnel and click "Delete" 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.

Appendix 5 Wiegand

Defined Wiegand format:

Denotes the built-in defined format in the system, do not need user specifies total length and the each site information. It has 9 formats in the defined format drop-down column. For details, please operate the Access3.5 software system.

[Wiegand Protocol]

Wiegand 26 is an access control standard protocol established by the Access Control Standard Subcommittee affiliated to the Security Industry Association (SIA). It is a non-contact IC card reader interface and output protocol.

Wiegand26 defines the interface between the card reader and controller used in the access control, security and other related industrial fields. Wiegand26 helps standardize the work of the card reader designers and controller manufacturers. The device is also designed in compliance with Wiegand26.

Digital Signals

Figure 1 is a sequence diagram in which the card reader sends digital signals in bit format

to the access controller. In this sequence diagram, Wiegand follows the SIA's access control standard protocol for the 26-bit Wiegand card reader (one pulse time ranges between 20us and 100us, and the pulse jump time ranges between 200us and 20ms). Data1 and Data0 are high level (larger than Voh) signals till the card reader prepares to send a data stream. The asynchronous low-level pulse (smaller than Vol) generated by the card reader is sent to the access control panel (The saw-tooth wave as shown in Figure 1) through Data1 or Data0. Data1 and Data0 pulses will neither overlap nor be generated synchronously. Table 1 lists the maximum and minimum pulse widths (a consecutive pulse) and pulse jump time (time between pulses) allowed by the F series fingerprint access control terminal.

Table 1 Pulse Time

Symbol	Definition	Typical Value of Reader
Tpw	Pulse Width	100 µs
Трі	Pulse Interval	1 ms



Figure 1 Sequence Diagram

26-Bit Wiegand Format

The composition of the open de facto 26 Bit Weigand industry standard contains 8 bits for the facility code and 16 bits for the ID number field. Mathematically, these 8 facility codes allows for a total of just 256 (0 to 255) facility codes, while the 16 ID number bits allow for a total of only 65,536 (0 to 65,536) individual ID's within each facility code.

26-Bit Wiegand format is of 26 bits in length, including 2 bits for parity bits.

1	2	9 10	25 26
EP	FC	CC	OP

Table 2 Definition of Fields

Field	Purpose
EP	Even Parity bit (EP) is judged based on field 1 to 13 bit. EP is 0 if the number of "1" is even; Otherwise, EP is 1.
FC(bit2-bit 9)	Facility Code (0 ~ 255); Bit 2 is the Most Significant Bit (MSB).
CC(bit10-bit 25)	Card Code (0 ~ 65 535). Bit10 is the MSB.
OP	The value of Odd Parity bit is determined by 14 ~ 26 bit. OP is 1 if the number of "1" is even; Otherwise, OP is 0.

Pyramid Wiegand format

Several alternatives exist for customers who require more codes. The first is to switch to Keri's standard 39 bit Pyramid format. This 39 bit Wiegand format contains 17 bits for the facility code field and 20 bits for the ID number field. Mathematically these 17 facility code bits allow for a total of 131,072 (0 to 131,071) facility codes, while the 20 ID number bits allow for a total of 1,048,576 (0 to 1,048,575) individual ID's within each facility code. Since there are so many facility codes in the Pyramid format, a new facility code may be selected for each project. Additionally the large number of ID's per facility code makes the Pyramid format ideal for very large projects. For added security, Keri Systems tracks credential coding to ensure that no duplication occurs. Table 3 provides a summary of the Pyramid Wiegand format.

Bit Number	Meaning
Bit 1	Even parity over bits 2 to 9
Bits 2 to 18	Facility code (0 to 131,071); Bit 2 is MSB

Bits 19 to 38	ID Number (0 to 1,048,575); Bit 19 is MSB
Bit 39	Odd parity over bits 20 to 38

Custom Wiegand Formats

The second alternative is to create a custom Wiegand format. Typically, up to 64 bits are available for creating a custom Wiegand format. With certain limitations, formats with greater than 64 bits may be created. If a customer currently has a custom Wiegand format from Wiegand or from other proximity manufacturers, Keri can normally match that format. Although the customer is primarily responsible for custom format card coding, as an added benefit Keri Systems tracks card coding for additional security. Table 4 provides an example of one possible custom Wiegand format.

Bit Number	Purpose
Bit 1	Even parity over bits 2 to 22
Bits 2 to 9	OEM code (0 to 255); Bit 2 is MSB
Bits 10 to 21	Facility code (0 to 4,096); Bit 10 is MSB
Bits 22 to 43	ID Number (0 to 524,287); Bit 22 is MSB
Bit 44	Even parity over bits 23 to 43

Table 4 Example of a Custom Wiegand Format
--