

DS-K2800 Series Access Controller

User Manual

User Manual

©2018 Hangzhou Hikvision Digital Technology Co., Ltd. This manual is applied for access controller.

Product Name	Serials
Accoss	DS-K2801 Serials Access Controller
Access Controller	DS-K2802 Serials Access Controller
	DS-K2804 Serials Access Controller

It includes instructions on how to use the Product. The software embodied in the Product is governed by the user license agreement covering that Product.

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Support

Should you have any questions, please do not hesitate to contact your local dealer.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

CE

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the R&TTE Directive 1999/5/EC, the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated

collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.

Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the manufacturer.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into Warnings and Cautions:

Warnings: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

A	$\mathbf{\Lambda}$
Warnings Follow these	Cautions Follow these
safeguards to prevent	precautions to prevent potential
serious injury or death.	injury or material damage.



- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

A Cautions

- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation. The appropriate operation temperature is 0°C to +45°C, and the storage temperature should be -10°C to +55°C.
- The device cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do
 not use alkaline detergents.

- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

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Chapter 1Product Description

1.1 Overview

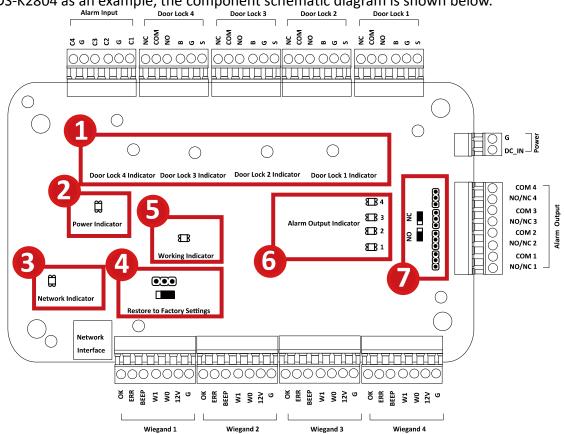
DS-K2800 is a powerful and stable access controller, using the logical architecture design. DS-K2800 is designed with TCP/IP network interface and its signal processed with special encryption and can be run offline. Anti-tampering function is also supported.

1.2 Main Features

- The access controller is equipped with 32-bit high-speed processor
- Supports TCP/IP network communication, with self-adaptive network interface. The communication data is specially encrypted to relieve the concern of privacy leak
- Supports recognition and storage of card number with maximum length of 20
- The access controller can store 10 thousand legal cards and 50 thousand card swiping records
- Supports first card open-door and first card authorization function, super card and super password function, online upgrade function and remote control of the doors
- Supports Wiegand interface for accessing card reader. Wiegand interface supports W26/W34 and is seamlessly compatible with third-party card reader with Wiegand interface
- Supports various card types as normal/ blocklist/ patrol/ guest/ duress/ super card, card for door extended opening, etc.
- Supports time synchronization via NTP, manual or automatic method
- Supports record storage function when it is offline and insufficient storage space storage alarm function
- The access controller has watchdog design
- Data can be permanently saved after the access controller is powered off.
- Supports I/O linkage, and event linkage
- Supports alarm of offline event exceeding 90%
- Multiple event upload methods: channel, center group, and listening
- 500 groups of authentication code
- Anti-pass-back function.

Chapter 2Component Description

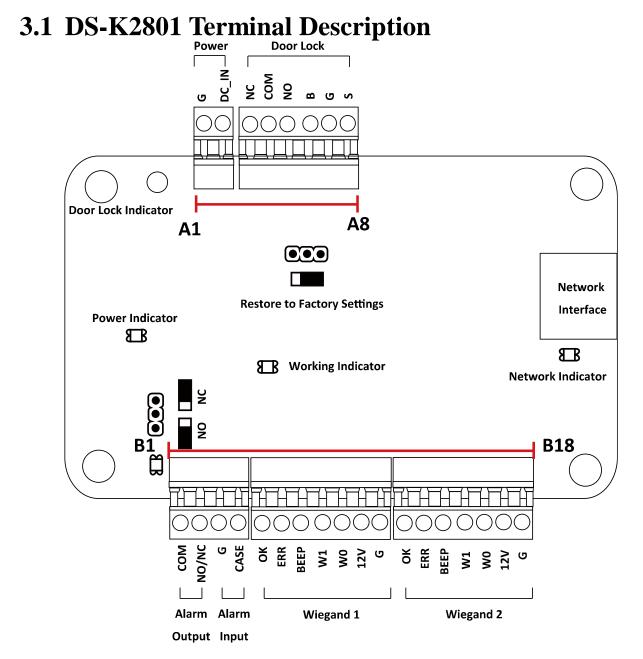
Take DS-K2804 as an example, the component schematic diagram is shown below.



DS-K2800 component descriptions are as follows:

No.	Component Description			
NO.	DS-K2801	DS-K2802	DS-K2804	
	Door Lock 1	Door Lock 1/2	Door Lock 1/2/3/4	
1	Indicator	Indicator	Indicator	
2	Power Indicator			
3	Network Indicator			
4	Jumper Cap for Restoring Factory Settings			
5	Working Indicator			
6	Alarm Output Indicator			
7	Alarm Output (NO/NC) Jumper Cap			

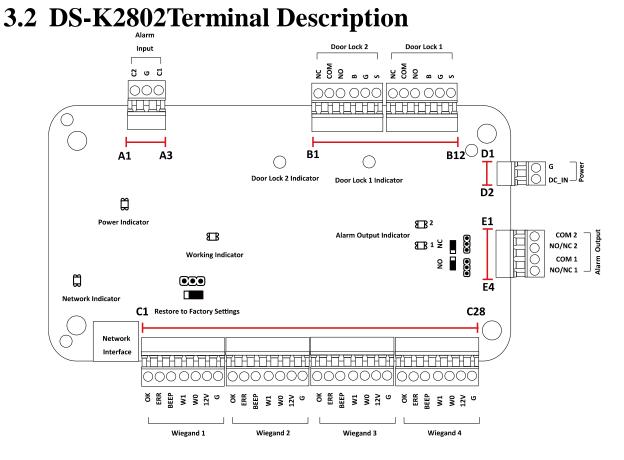
Chapter 3 Terminal Connection



No.	DS-K2801		
A1	Dowor	GND	DC12V Grounding
A2	Power	+12V	DC12V Input
A3		NC	
A4	Deer	COM	Door Lock Relay Output
A5	Door	NO	
A6		BUTTON	Door Button Input
A7		GND	Grounding

No.	DS-K2801		
A8		SENSOR	Door Magnetic detector
B1	Alarma Quitaut	СОМ	Alarm Balay Output (Dry Cantact)
B2	Alarm Output	NO/NC	 Alarm Relay Output (Dry Contact)
B3	Alarm Input	GND	Grounding
B4	Alarm Input	IN	Event Input
B5		ОК	Indicator of Card Reader Control Output (Valid Card Output)
B6		ERR	Indicator of Card Reader Control Output (Invalid Card Output)
B7	Wingond Card	BZ	Card Reader Buzzer Control Output
B8	Wiegand Card Reader 1	W1	Wiegand Head Read Data Input Data1
B9		W0	Wiegand Head Read Data Input Data0
B10		PWR	Cand Deader Device Output
B11		GND	 Card Reader Power Output
B12		ОК	Indicator of Card Reader Control Output (Valid Card Output)
B13		ERR	Indicator of Card Reader Control Output (Invalid Card Output)
B14	Wiegand Card	BZ	Card Reader Buzzer Control Output
B15	Reader 2	W1	Wiegand Head Read Data Input Data1
B16		W0	Wiegand Head Read Data Input Data0
B17		PWR	Card Reader Rewer Output
B18		GND	 Card Reader Power Output

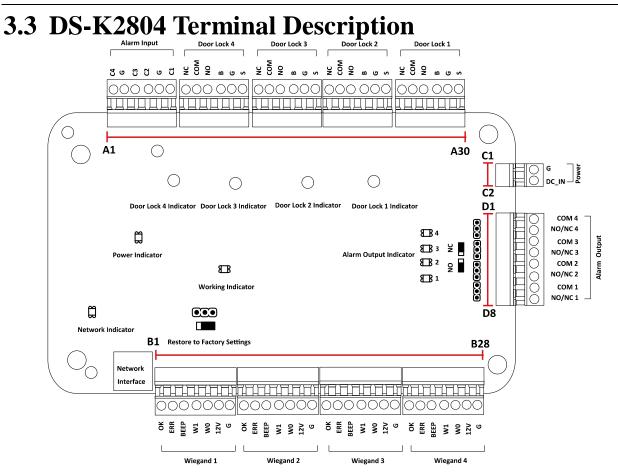
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DS-K2802 Terminal descriptions are as follows:

No.	DS-K2802				
A1		IN2	Event Input 2		
A2	Alarm Input	GND	Grounding		
A3		IN1	Event Input 1		
B1		NC			
B2		СОМ	Door Lock Relay Output (Dry Contact)		
B3		NO			
B4	Door 2	BUTTON	Door Button Input		
B5		GND	Grounding		
B6		SENSOR	Door Magnetic detector		
B7		NC			
B8		СОМ	Door Lock Relay Output (Dry Contact)		
B9	Door 1	NO			
B10		BUTTON	Door Button Input		
B11		GND	Grounding		
B12		SENSOR	Door Magnetic detector		
D1	Dowor	GND	DC12V Grounding		
D2	Power	+12V	DC12V Input		
E1	Alarm Output 2	COM2	Alarm Palay Output 2 (Dry Contact)		
E2	Alarm Output 2	NO/NC2	Alarm Relay Output 2 (Dry Contact)		

No.			DS-K2802	
E3		COM1	Alarm Balay Output 1 (Dry Cartact)	
E4	Alarm Output 1	NO/NC1	Alarm Relay Output 1 (Dry Contact)	
C1	C1		Indicator of Card Reader Control Output (Valid Card	
		ОК	Output)	
C2		ERR	Indicator of Card Reader Control Output (Invalid Card	
	Wiegand Card		Output)	
C3	Reader 1	BZ	Card Reader Buzzer Control Output	
C4		W1	Wiegand Head Read Data Input Data1	
C5		W0	Wiegand Head Read Data Input Data0	
C6		PWR	Card Reader Power Output	
C7		GND		
C8		ок	Indicator of Card Reader Control Output (Valid Card	
		_	Output)	
C9		ERR	Indicator of Card Reader Control Output (Invalid Card	
	Wiegand Card		Output)	
C10	Reader 2	BZ	Card Reader Buzzer Control Output	
C11		W1	Wiegand Head Read Data Input Data1	
C12		W0	Wiegand Head Read Data Input Data0	
C13		PWR	Card Reader Power Output	
C14		GND	· · · · · · · · · · · · · · · · · · ·	
C15		ОК	Indicator of Card Reader Control Output (Valid Card	
			Output) Indicator of Card Reader Control Output (Invalid Card	
C16		ERR	Output)	
C17	Wiegand Card	BZ	Card Reader Buzzer Control Output	
C18	Reader 3	W1	Wiegand Head Read Data Input Data1	
C19		W0	Wiegand Head Read Data Input Data	
C20		PWR		
C21		GND	Card Reader Power Output	
			Indicator of Card Reader Control Output (Valid Card	
C22	C22 C23 C24 Wiegand Card	ОК	ОК	Output)
		500	Indicator of Card Reader Control Output (Invalid Card	
C23		ERR	Output)	
C24		BZ	Card Reader Buzzer Control Output	
C25	Reader 4	W1	Wiegand Head Read Data Input Data1	
C26		W0	Wiegand Head Read Data Input Data0	
C27		PWR	Card Deader Dewer Output	
C28	GND		Card Reader Power Output	



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DS-K2804 Terminal descriptions are as follows:

No.	DS-K2804		
A1		IN4	Event Input 4
A2		GND	Grounding
A3	Alarm Input	IN3	Event Input 3
A4	Alarm Input	IN2	Event Input 2
A5		GND	Grounding
A6		IN1	Event Input 1
A7		NC	
A8		COM	Door Lock Relay Output (Dry Contact)
A9	Door 4	NO	
A10	D001 4	BUTTON	Door Button Input
A11		GND	Grounding
A12		SENSOR	Door Magnetic detector
A13		NC	
A14		COM	Door Lock Relay Output (Dry Contact)
A15	Door 3	NO	
A16		BUTTON	Door Button Input
A17		GND	Grounding
A18		SENSOR	Door Magnetic detector

No. DS-K2804			
A19		NC	5-12004
A10		COM	Door Lock Relay Output (Dry Contact)
A20		NO	
A21 A22	Door 2	BUTTON	Door Putton Input
A22 A23		GND	Door Button Input
A25 A24		SENSOR	Grounding
A24 A25		NC	Door Magnetic detector
A25 A26		COM	Deer Leek Beley Output (Dry Centert)
		NO	Door Lock Relay Output (Dry Contact)
A27	Door 1		Deer Dutter lagut
A28		BUTTON	Door Button Input
A29		GND	Grounding
A30		SENSOR	Door Magnetic detector
B1		ОК	Indicator of Card Reader Control
			Output (Valid Card Output)
B2		ERR	Indicator of Card Reader Control
	Wiegand Card	07	Output (Invalid Card Output)
B3	Reader 1	BZ	Card Reader Buzzer Control Output
B4		W1	Wiegand Head Read Data Input Data1
B5		W0	Wiegand Head Read Data Input Data0
B6		PWR	Card Reader Power Output
B7		GND	
B8		ОК	Indicator of Card Reader Control
			Output (Valid Card Output)
В9		ERR	Indicator of Card Reader Control
	Wiegand Card		Output (Invalid Card Output)
B10	Reader 2	BZ	Card Reader Buzzer Control Output
B11		W1	Wiegand Head Read Data Input Data1
B12		W0	Wiegand Head Read Data Input Data0
B13		PWR	- Card Reader Power Output
B14		GND	
B15		ОК	Indicator of Card Reader Control
			Output (Valid Card Output)
B16		ERR	Indicator of Card Reader Control
	Wiegand Card		Output (Invalid Card Output)
B17	Reader 3	BZ	Card Reader Buzzer Control Output
B18	neddel 5	W1	Wiegand Head Read Data Input Data1
B19		W0	Wiegand Head Read Data Input Data0
B20		PWR	- Card Reader Power Output
B21		GND	
B22 Wiegand Card	ОК	Indicator of Card Reader Control	
		Output (Valid Card Output)	
B23 Reader 4	ERR	Indicator of Card Reader Control	
	823		Output (Invalid Card Output)

No.	DS-K2804				
B24		BZ	Card Reader Buzzer Control Output		
B25		W1	Wiegand Head Read Data Input Data1		
B26		W0	Wiegand Head Read Data Input Data0		
B27		PWR	Cond Deeder Dewer Outeut		
B28		GND	- Card Reader Power Output		
C1	Dowor	GND	DC12V Grounding		
C2	Power	+12V	DC12V Input		
D1	Alarm Output 4	COM4	Alarm Bolay Output 4 (Dry Contact)		
D2	Alarm Output 4	NO/NC4	Alarm Relay Output 4 (Dry Contact)		
D3	Alarm Output 2	COM3	Alarm Balay Output 2 (Dry Contact)		
D4	Alarm Output 3	NO/NC3	Alarm Relay Output 3 (Dry Contact)		
D5	Alarm Output 2	COM2	Alarm Balay Output 2 (Dry Contact)		
D6	Alarm Output 2	NO/NC2	Alarm Relay Output 2 (Dry Contact)		
D7	Alarm Output 1	COM1	Alarm Balay Output 1 (Dry Contact)		
D8	Alarm Output 1	NO/NC1	Alarm Relay Output 1 (Dry Contact)		

Notes:

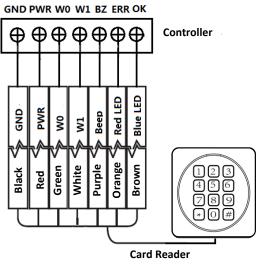
• The Alarm input hardware interface is normally open by default. So only the normally open signal is allowed. It can be linked to the buzzer of the card reader and access controller, and the alarm relay output and open door relat output.

• For single-door access controller, the Wiegand card reader 1 and 2 respectively correspond to the entering and exiting card readers of door 1. For two-door access controller, the Wiegand card reader 1 and 2 respectively correspond to the entering and exiting card readers of door 1, and the Wiegand card reader 3 and 4 respectively correspond to the entering and exiting card readers of door 2. For four-door access controller, the Wiegand card reader 1, 2, 3 and 4 respectively correspond to the entering and 4.

Chapter 4External Device Wiring

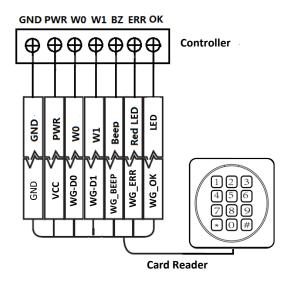
4.1 Card Reader Wiring

4.1.1 Wiegand Card Reader Wiring



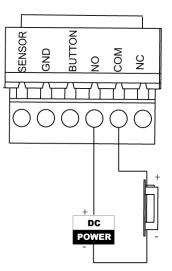
Note: You must connect the OK/ERR/BZ, if using access controller to control the LED and buzzer of the Wiegand card reader.

4.1.2 DS-K1800 Series Card Reader Wiring

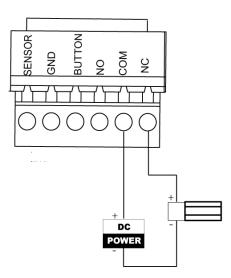


4.2 DS-K2801 External Terminals

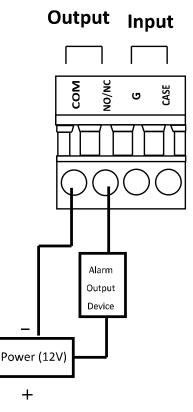
4.2.1 Installation of Cathode Lock



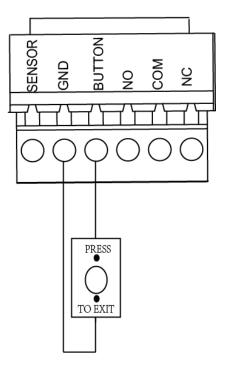
4.2.2 Installation of Anode Lock



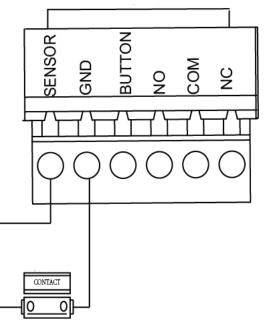
4.3 Connecting the External Alarm Device



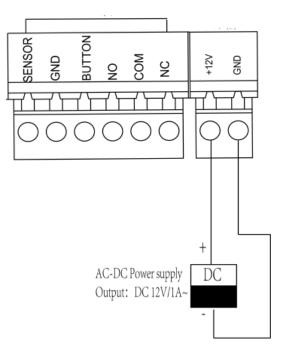
4.4 Door Button Wiring Diagram



4.5 The Connection of Magnetics Detection



4.6 Connecting Power Supply



Chapter 5Settings

5.1 Initializing the Hardware

Option 1:

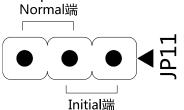
Steps:

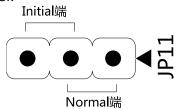
- 1. Remove the jumper cap from the Normal terminal.
- 2. Disconnect the power and restart the access controller. The controller buzzer buzzes a long beep.
- 3. When the beep stopped, plug the jumper cap back to Normal.
- 4. Disconnect the power and restart the access controller.

Option 2:

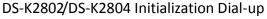
Steps:

- 1. Jump the jumper cap from Normal to Initial.
- 2. Disconnect the power and restart the access controller. The controller buzzer buzzes a long beep.
- 3. When the beep stopped, jump the jumper cap back to Normal.
- 4. Disconnect the power and restart the access controller.





DS-K2801 Initialization Dial-up

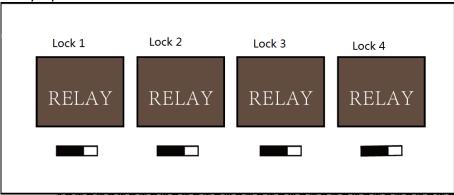


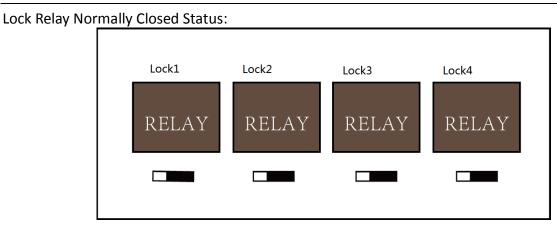
Note: The initializing of the hardware will restore all the parameters to the default setting and all the device events are wiping out.

5.2 Relay Input NO/NC

5.2.1 Lock Relay Output

Lock Relay Normally Open Status:

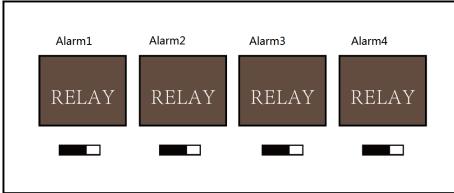




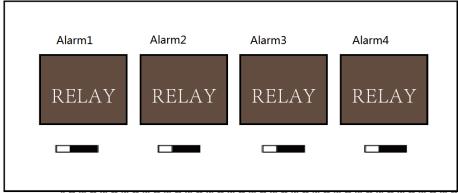
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5.2.2 Alarm Relay Output Status

Alarm Relay Output Normally Open:

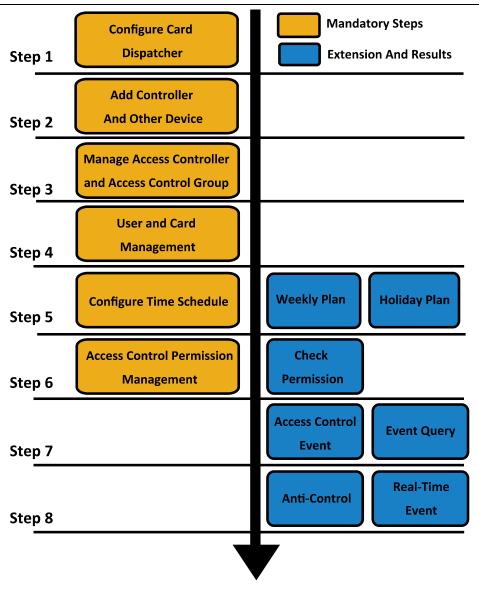


Alarm Relay Output Normally Closed:



Work Flow of Software

For detailed information, please see the user manual of the client software. Refer to the following work flow:



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Chapter 6Activating the Access Control Terminal

Purpose:

You are required to activate the terminal first before using it. Activation via SADP, and Activation via client software are supported. The default values of the control terminal are as follows.

- The default IP address: 192.0.0.64.
- The default port No.: 8000.
- The default user name: admin.

6.1 Activating via SADP Software

SADP software is used for detecting the online device, activating the device, and resetting the password.

Get the SADP software from the supplied disk, and install the SADP according to the prompts. Follow the steps to activate the control panel.

Steps:

- 1. Run the SADP software to search the online devices.
- 2. Check the device status from the device list, and select an inactive device.

	SADP									◎ _ □ >
Tota	al numb	er of online devices: 6						Export	Refresh	Activate the Device
•	ID	▲ Device Type	Security	IPv4 Address	Port	Software Version	IPv4 Gateway	HTTP Port	Device Serial No.	
	001		Active		8000	V1.4.0build 1609		80	2	201
	002		Active		8000	V1.4.2build 1608		80	,	160
	003		Active		8000	V1.4.0build 1609		80	2	20
	004		Active		8000	V5.4.0build 1602		80	1	The device is not activated.
	005		Active		8000	V2.0.1build 1605		80	3	
V	006	DS-K	Inactive	192.0.0.64	8000	V1.0.0build 1608	0.0.0.0	80		160
										You can modify the network parameters after the device activation.
										Activate Now
										New Password:
										Confirm Password:
										Activate
4										

3. Create a password and input the password in the password field, and confirm the password.

STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Click **Activate** to activate the device.

5. Check the activated device. You can change the device IP address to the same network

segment with your computer by either modifying the IP address manually or checking the checkbox of Enable DHCP.

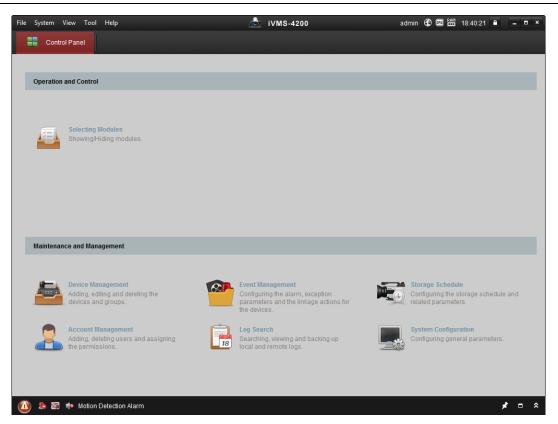
Modify Network	Parameters
Enable DHCP	
Device Serial No.:	
IP Address:	
Port:	8000
Subnet Mask:	
Gateway:	
IPv6 Address:	:
IPv6 Gateway:	::
IPv6 Prefix Length:	0
HTTP Port:	80
	ecurity Verification
Admin Password:	
	Modify
	Forgot Password

6. Input the password and click the **Modify** button to activate your IP address modification.

6.2 Activating via Client Software

The client software is versatile video management software for multiple kinds of devices. Get the client software from the supplied disk, and install the software according to the prompts. Follow the steps to activate the control panel.

- Steps:
- 1. Run the client software and the control panel of the software pops up, as shown in the figure below.



- 2. Click the **Device Management** to enter the Device Management interface.
- 3. Check the device status from the device list, and select an inactive device.

+ Add to Clie	ent 🕂 Add All	🗹 Modify Netinfo 👌 Reset	Password 🥊 Activate	Filter
IP	Device Type	Firmware Version	Security Server Port	Device Serial No. Start Tir
192.0.0.64	03-0-0300-8	10.000000000000000000000000000000000000	Active 8000	. 2017-01
192.168.1.64			Inactive 8000	2017-01

- 4. Click the Activate button to pop up the Activation interface.
- 5. In the pop-up window, create a password in the password field, and confirm the password.

STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

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	Activate Device
Password:	
	The password (8 to 16 characters) should contain two or more of the following character types: numeric, low
Confirm Pas	

- 6. Click **OK** button to start activation.
- 7. Click the **Modify Netinfor** button to pop up the Network Parameter Modification interface.
- 8. Change the device IP address to the same network segment with your computer by either modifying the IP address manually.
- 9. Input the password and click the **OK** button to save the settings.

Chapter 7 Client Operation

You can set and operate the access control devices via the client software. This chapter will introduce the access control device related operations in the client software. For integrated operations, refer to *User Manual of iVMS-4200 Client Software*.

7.1 Function Module

Control Panel of iVMS-4200:

File System View Tool Help	📩 iVMS-4200	admin 🏵 📼 🛗 18:40:21 🔒 🗕 🗆 🗙
Control Panel		
Operation and Control		
Selecting Modules Showing/Hiding modules.		
Maintenance and Management		
Device Management Adding, editing and deleting the devices and groups.	Event Management Configuring the alarm, exception parameters and the linkage actions for the devices.	Storage Schedule Configuring the storage schedule and related parameters.
Account Management Adding, deleting users and assigning the permissions.	Log Search Searching, viewing and backing up local and remote logs.	System Configuration Configuring general parameters.
🙆 👃 🗃 🍁 Motion Detection Alarm		/ = *

7.2 User Registration and Login

For the first time to use iVMS-4200 client software, you need to register a super user for login. *Steps:*

- 1. Input the super user name and password. The software will judge password strength automatically, and we highly recommend you to use a strong password to ensure your data security.
- 2. Confirm the password.
- 3. Optionally, check the checkbox **Enable Auto-login** to log into the software automatically.
- 4. Click **Register**. Then, you can log into the software as the super user.

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Register Administator						
Please create a super user before proceeding.						
Super User:						
Password:						
Confirm Password:						
Enable Auto-login						
Register Cancel						

- ◆ A user name cannot contain any of the following characters: / \ : * ? " < > |. And the length of the password cannot be less than 6 characters.
- For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product.
- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.

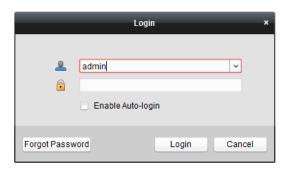
When opening iVMS-4200 after registration, you can log into the client software with the registered user name and password.

Steps:

1. Input the user name and password you registered.

Note: If you forget your password, please click **Forgot Password** and remember the encrypted string in the pop-up window. Contact your dealer and send the encrypted string to him to reset your password.

- 2. Optionally, check the checkbox **Enable Auto-login** to log into the software automatically.
- 3. Click Login.



After running the client software, you can open the wizards (including video wizard, video wall wizard, security control panel wizard, access control and video intercom wizard, and attendance wizard), to guide you to add the device and do other settings and operations. For detailed configuration about the wizards, please refer to the *Quick Start Guide of iVMS-4200*.

7.3 System Configuration

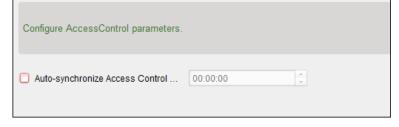
Purpose:

You can synchronize the missed access control events to the client.

Steps:

- 1. Click Tool System Configuration.
- 2. In the System Configuration window, check the **Auto-synchronize Access Control Event** checkbox.
- 3. Set the synchronization time.

The client will auto-synchronize the missed access control event to the client at the set time.



7.4 Access Control Management

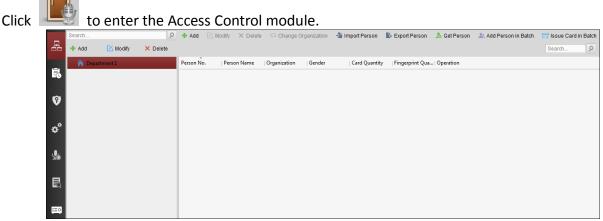
Purpose:

The Access Control module is applicable to access control devices and video intercom. It provides multiple functionalities, including person and card management, permission configuration, access control status management, video intercom, and other advanced functions.

You can also set the event configuration for access control and display access control points and zones on E-map.

Note: For the user with access control module permissions, the user can enter the Access Control module and configure the access control settings.

Click **mean** in the control panel, and check **Access Control** to add the Access Control module to the control panel.



Before you start:

For the first time opening the Access Control module, the following dialog will pop up and you are required to select the scene according to the actual needs.

You can select the scene as Non-residence and Residence.



Notes:

- Once the scene is configured, you cannot change it later.
- When you select **Non-Residence** mode, you cannot configure the Attendance Rule when adding person.

H	Person and Card	Managing the organizations, persons, and assigning				
		cards to persons.				
i.	Schedule and	Configuring the week schedule, holiday group, and				
EQ	Template	setting the template.				
9	Permission	Assigning access control permissions to persons and				
	Permission	applying to the devices.				
		Providing advanced functions including access control				
	Advanced Function	parameters settings, card reader authentication,				
¢°		opening door with first card, anti-passing back,				
		multi-door interlocking, and authentication				
		password.				
	Video Intercom	Video intercom between client and resident,				
SO	Video Intercom	searching the dial log, and releasing notice.				
SIII S	Coorch	Searching history events of access control; Searching				
EQ	Search	call logs, unlocking logs, and released notices.				
:::: 0	Device	Managing the access control devices and video				
	Management	intercom devices.				

The Access Control module is composed of the following sub modules.

Note: In this chapter, we only introduce the operations about access control.

7.4.1 Adding Access Control Device

Click \blacksquare in the Access Control module to enter the following interface.

	nt (8)					Refresh
🕂 Add 🗹 Modify	🗙 Delete 🛛 🏶 Rem	ote C 謎 C	QR Code 🛛 🔮 Activate	Device Stat	🔔 Online User	Filter
Device Type	Nickname	Connection	Network Parameters	Device Serial No.		
Access Controller	Access Controller	TCP/IP	10.18.146.86:8000	DS-		6
Encoding Device	10.33.3.159	TCP/IP	10.33.3.159:8000	DS-		3
Encoding Device	10.16.6.250	TCP/IP	10.16.6.250:8000	2014		
Encoding Device	10.20.132.215	TCP/IP	10.20.132.215:8000	DS-		7
Encoding Device	10.66.76.193	TCP/IP	10.66.76.193:8005	DS-		J
Indoor Station	Indoor Station	TCP/IP	10.16.6.104:8000	DS-		U
Security Control Panel	Security Control Pa	TCP/IP	10.18.146.81:8000	DS-		
Security Control Panel	10.16.6.92	TCP/IP	10.16.6.92:8000	DS-		7
Security Control Parler	101010102	i ci / ii	10.10.0.52.0000	03-		
Online Device (19)			Reset Password)	♂ Refresh E Filter	· ·
Online Device (19) Add to Client			Reset Password)	Filter	
Online Device (19) Add to Client Device Device	🕨 Add All 🛛 Modify	Netinfo 🦘 I	Reset Password	Activate	Filter	No. Start Ti
Online Device (19) Add to Client Device Device	Add All 🔀 Modify	Netinfo 🦘 I	Reset Password	Activate	Filter	

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Note: After adding the device, you should check the device arming status in **Tool** – **Device Arming Control**. If the device is not armed, you should arm it, or you will not receive the events via the client software. For details about device arming control, refer *7.12 Arming Control*.

Creating Password

Purpose:

For some devices, you are required to create the password to activate them before they can be added to the software and work properly.

Note: This function should be supported by the device.

Steps:

- 1. Enter the Device Management page.
- 2. On the **Device for Management** or **Online Device** area, check the device status (shown on **Security** column) and select an inactive device.

Online Device (1	9)					😯 Refresh Every 60s	×
+ Add to Clier	nt 🕂 Add All	🗹 Modify Netinfo	🦘 Reset F	Password 🏾 🌻 Ad	ctivate	Filter	
IP	Device Type	Firmware	e Version	Security	Server Port	Device Serial No. Start T	îr î
192.0.0.64	105-1310-14.			Active	8000	. 2017-0)1
192.168.1.64				Inactive	8000	2017-0	1
							•

- 3. Click the **Activate** button to pop up the Activation interface.
- 4. Create a password in the password field, and confirm the password.



<u>STRONG PASSWORD RECOMMENDED</u>– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system,

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resetting the password monthly or weekly can better protect your product.



- 5. (Optional) Enable Hik-Connect service when activating the device if the device supports.
 - 1) Check **Enable Hik-Connect** checkbox to pop up the Note dialog.

Note							
To enable Hik-Connect service, you need to create a verification code or change the verification code.							
Verification Code:							
	6 to 12 letters or numbers, recommended to use a cor or numbers.	case sensitive. You are mbination of no less than 8 letters					
Confirm Verification Code:							
The Hik-Connect service will require internet access. Please read the <u>"Terms of Service"</u> and <u>"Privacy Policy"</u> before enabling the service.							
		OK Cancel					

- 2) Create a verification code.
- 3) Confirm the verification code.
- 4) Click Terms of Service and Privacy Policy to read the requirements.
- 5) Click **OK** to enable the Hik-Connect service.
- 6. Click **OK** to activate the device.

A "The device is activated." window pops up when the password is set successfully.

- Click Modify Netinfo to pop up the Modify Network Parameter interface.
 Note: This function is only available on the Online Device area. You can change the device IP address to the same subnet with your computer if you need to add the device to the software.
- 8. Change the device IP address to the same subnet with your computer by either modifying the IP address manually or checking the checkbox of DHCP.
- 9. Input the password set in step 4 and click **OK** to complete the network settings.

	Modify Network Parameter	×
Device Information:		
MAC Address:		Сору
Software Version:		Сору
Device Serial No.:		Сору
Network Information:		
Port	8000	
IPv4(Don't Save)		
IP Address:	10.16.1.233	
Subnet Mask:	255.255.255.0	
Gateway:	10.16.1.254	
IPv6(Don't Save)		
Password:	•••••	
		OK Cancel

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Adding Online Device

Purpose:

The active online devices in the same local subnet with the client software will be displayed on the **Online Device** area. You can click the **Refresh Every 60s** button to refresh the information of the online devices.

Note: You can click 🔄 to hide the **Online Device** area.

Online Device (19) ORefresh Every 60s							
+ Add to Cl	lient 🕂 Add All	🗹 Modify Netinfo 🛛 🥱 Reset F	Password 🔮 Activ	vate		Filter	
IP	Device Type	Firmware Version	Security	Server Port	Device S	Serial No. Start Tir 🇯	
10.16.6.236	D A		Active	8000	C	2017-01	
10.16.6.92	D		Active	8000	D	. 2017-01	
192.0.0.64	D		Active	8000	C	. 2017-01 -	
+						Þ	

Steps:

1. Select the devices to be added from the list.

Note: For the inactive device, you need to create the password for it before you can add the device properly. For detailed steps, please refer to *Chapter 6 Activating the Access Control Terminal.*

- 2. Click **Add to Client** to open the device adding dialog box.
- 3. Input the required information.

Nickname: Edit a name for the device as you want.

Address: Input the device's IP address. The IP address of the device is obtained automatically in this adding mode.

Port: Input the device port No. The default value is *8000*.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password.



The password strength of the device can be checked by the software. For your privacy, we strongly recommend changing the password to something of your own choosing (using a

minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

- 4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default. *Note:* iVMS-4200 also provides a method to add the offline devices.
 - 1) Check the Add Offline Device checkbox.
 - 2) Input the required information, including the device channel number and alarm input number.
 - 3) Click Add.

When the offline device comes online, the software will connect it automatically.

5. Click **Add** to add the device.

_	_	Add	×						
Adding Mode:									
IP/Domain	IP Segment	O Hik-Connect D O EHome	 Serial Port 						
 IP Server 	HIDDNS	 Batch Import 							
Add Offline Device									
Nickname:									
Address:		192.0.0.64							
Port		8000							
Us	er Name:								
Password:									
✓	Export to Group								
	t the device name as th nnected to the device to								
			Add Cancel						

Adding Multiple Online Device

If you want to add multiple online devices to the client software, click and hold *Ctrl* key to select multiple devices, and click **Add to Client** to open the device adding dialog box. In the pop-up message box, enter the user name and password for the devices to be added.

Adding All Online Devices

If you want to add all the online devices to the client software, click **Add All** and click **OK** in the pop-up message box. Then enter the user name and password for the devices to be added.

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		Add	×
Adding Mode:	IP Segment	O Hik-Connect D O EHome	Serial Port
			Ordinarrow
Pa	ser Name: Issword: Export to Group eate group with devic	e IP.	
			Add Cancel

Adding Devices by IP or Domain Name

Steps:

- 1. Click **Add** to open the device adding dialog box.
- 2. Select **IP/Domain** as the adding mode.
- 3. Input the required information.

Nickname: Edit a name for the device as you want.

Address: Input the device's IP address or domain name.

Port: Input the device port No.. The default value is 8000.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password.



The password strength of the device can be checked by the software. For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

Note: iVMS-4200 also provides a method to add the offline devices.

- 1) Check the Add Offline Device checkbox.
- 2) Input the required information, including the device channel number and alarm input number.
- 3) Click Add.

When the offline device comes online, the software will connect it automatically.

5. Click **Add** to add the device.

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		Add	×
Adding Mode:			
IP/Domain	 IP Segment 	O Hik-Connect D O EHome	 Serial Port
 IP Server 		 Batch Import 	
Add Offline	Device		
N	Nickname:		
A	Address:		
Р	Port:	8000	
U	Jser Name:		
Р	Password:		
	Export to Group		
	Set the device name as the connected to the device to	he group name and add all the channels o the group.	
			Add Cancel

Adding Devices by IP Segment

Steps:

- 1. Click **Add** to open the device adding dialog box.
- 2. Select **IP Segment** as the adding mode.
- 3. Input the required information.

Start IP: Input a start IP address.

End IP: Input an end IP address in the same network segment with the start IP. **Port:** Input the device port No.. The default value is *8000*.

User Name: Input the device user name. By default, the user name is *admin*. **Password:** Input the device password.



The password strength of the device can be checked by the software. For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

4. Optionally, check the **Export to Group** checkbox to create a group by the device name. You can import all the channels of the device to the corresponding group by default.

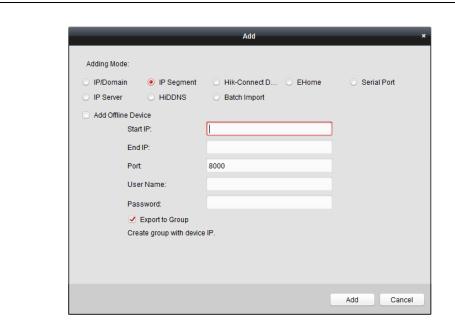
Note: iVMS-4200 also provides a method to add the offline devices.

- 1) Check the Add Offline Device checkbox.
- 2) Input the required information, including the device channel number and alarm input number.
- 3) Click Add.

When the offline device comes online, the software will connect it automatically.

5. Click Add.

You can add the device which the IP address is between the start IP and end IP to the device



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Importing Devices in Batch

Purpose:

list.

The devices can be added to the software in batch by inputting the device information in the pre-defined CSV file.

Steps:

- 1. Click Add to open the device adding dialog box.
- 2. Select **Batch Import** as the adding mode.

		Add	×
Adding Mode:			
O IP/Domain	IP Segment	O Hik-Connect D O EHome	 Serial Port
O IP Server		 Batch Import 	
	File (*.csv): Export	Template	
			Add Cancel

- 3. Click Export Template and save the pre-defined template (CSV file) on your PC.
- 4. Open the exported template file and input the required information of the devices to be added on the corresponding column.

Nickname: Edit a name for the device as you want.

Adding Mode: You can input 0, 2, 3, 4, 5, or 6 which indicated different adding modes. 0 indicates that the device is added by IP address or domain name; 2 indicates that the device is

added via IP server; 3 indicates that the device is added via HiDDNS; 4 indicates that the device is added via EHome protocol; 5 indicates that the device is added by serial port; 6 indicates that the device is added via Hik-Connect Domain.

Address: Edit the address of the device. If you set 0 as the adding mode, you should input the IP address or domain name of the device; if you set 2 as the adding mode, you should input the IP address of the PC that installs the IP Server; if you set 3 as the adding mode, you should input *www.hik-online.com*.

Port: Input the device port No.. The default value is *8000*.

Device Information: If you set 0 as the adding mode, this field is not required; if you set 2 as the adding mode, input the device ID registered on the IP Server; if you set 3 as the adding mode, input the device domain name registered on HiDDNS server; if you set 4 as the adding mode, input the EHome account; if you set 6 as the adding mode, input the device serial No.

User Name: Input the device user name. By default, the user name is admin.

Password: Input the device password.



The password strength of the device can be checked by the software. For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Add Offline Device: You can input 1 to enable adding the offline device, and then the software will automatically connect it when the offline device comes online. 0 indicates disabling this function.

Export to Group: You can input 1 to create a group by the device name (nickname). All the channels of the device will be imported to the corresponding group by default. 0 indicates disabling this function.

Channel Number: If you set 1 for Add Offline Device, input the channel number of the device. If you set 0 for Add Offline Device, this field is not required.

Alarm Input Number: If you set 1 for Add Offline Device, input the alarm input number of the device. If you set 0 for Add Offline Device, this field is not required.

Serial Port No.: If you set 5 as the adding mode, input the serial port No. for the access control device.

Baud Rate: If you set 5 as the adding mode, input the baud rate of the access control device. **DIP:** If you set 5 as the adding mode, input the DIP address of the access control device.

Hik-Connect Account: If you set 6 as the adding mode, input the Hik-Connect account.

Hik-Connect Password: If you set 6 as the adding mode, input the Hik-Connect password.

- 5. Click and select the template file.
- 6. Click **Add** to import the devices.

The devices will be displayed on the device list for management after added successfully. You can check the resource usage, HDD status, recording status, and other information of the added devices on the list.

Click **Refresh All** to refresh the information of all added devices. You can also input the device name in the filter field for search.

7.4.2 Viewing Device Status

In the device list, you can select the device and then click **Device Status** button to view its status. *Note:* The interface may different from the picture displayed above. Refer to the actual interface when adopting this function.

Door Status: The status of the connected door.

Host Status: The status of the host, including Storage Battery Power Voltage, Device Power Supply Status, Multi-door Interlocking Status, Anti-passing Back Status, and Host Anti-Tamper Status. **Card Reader Status**: The status of card reader.

Note: If you use the card reader with RS-485 connection, you can view the status of online or offline. If you use the card reader with Wiegand connection, you can view the status of offline.

Alarm Output Status: The alarm output status of each port.

Event Sensor Status: The event sensor status of each port.

Arming Status: The status of the device.

7.4.3 Editing Basic Information

Purpose:

After adding the access control device, you can edit the device basic information. *Steps:*

- 1. Select the device in the device list.
- 2. Click **Modify** to pop up the modifying device information window.
- 3. Click **Basic Information** tab to enter the Basic Information interface.



4. Edit the device information, including the adding mode, the device name, the device IP address, port No., user name, and the password.

7.4.4 Remote Configuration

Purpose:

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In the device list, select the device and click **Remote Configuration** button to enter the remote configuration interface. You can set the detailed parameters of the selected device.

Checking Device Information

Steps:

- 1. In the device list, you can click **Remote Configuration** to enter the remote configuration interface.
- 2. Click **System** -> **Device Information** to check the device basic information and the device version information.

🖃 🚳 System	Displaying the Device	Displaying the Device Information			
🔅 Device Information	Basic Information				
🎡 General					
🎡 Time	Device Type:	DS-K2602	Local RS-485 Number:	4	
🎡 System Maintenance	Local Zone Number:	4	Extended RS-485 Number:	0	
🎡 User	Extended Zone Number:	0	Sub-system Number:	0	
🎡 Security	Local Trigger Number:	4	Public Sub-system Num	0	
🗄 🚳 Network	Extended Trigger Number:	0	Keyboard Number:	0	
🗄 🚳 Alarm	Local Sensor Number:	0	Global Keyboard Number:	0	
🗄 🚳 Other	Extended Sensor Number:	0	Analog Camera Number:	0	
🕙 🚳 Operation	Siren Number:	0	Network User Number:	1	
🛨 🚳 Status	Electric Lock Number:	2	Mobile Gate Number:	0	
	Firmware Version:	V2.0.0 build 170417	Hardware Version:	0x20000	
	Device Serial No.:	DS-K26022			

Editing Device Name

In the Remote Configuration interface, click **System** -> **General** to configure the device name. Click **Save** to save the settings.

Configuring the Gen	eral Parameters	
Device Information		
Device Name:	Access Controller Save	

Editing Time

Steps:

- 1. In the Remote Configuration interface, click **System** -> **Time** to configure the time zone.
- 2. (Optional) Check **Enable NTP** and configure the NTP server address (or server domain), the NTP port, and the synchronization interval.
- 3. (Optional) Check **Enable DST** and configure the DST star time, end time and the bias.
- 4. Click **Save** to save the settings.

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Configuring the Time	Settings (e.g., NTP, D	ST)
Time Zone		
Select Time Zone:	(GMT+08:00) Beijing, Hong	Kong, Perth, Singa 👻
Enable NTP		
Server Address:		
NTP Port:	123	
Sync Interval:	0	Minute(s)
Enable DST		
Start Time:	April - First Week	✓ Sun ✓ 2 ▲ :00
End Time:	October 🗸 Last Week	✓ Sun ✓ 2 [▲] / _▼ :00
DST Bias:	60 min 🗸	
		Save

Setting System Maintenance

Steps:

- 1. In the Remote Configuration interface, click **System** -> **System Maintenance**.
- 2. Click **Reboot** to reboot the device.

Or click **Restore Default Settings** to restore the device settings to the default ones, excluding the IP address.

Or click **Restore All** to restore the device parameters to the default ones. The device should be activated after restoring.

Note: The configuration file contains the device parameters.

- 3. You can also remote upgrade the device.
 - 1) In the Remote Upgrade part, select an upgrade file type in the dropdown list. You can select Controller Upgrade File or Card Reader Upgrade in the drop-down list.
 - 2) Click 🔤 to select the upgrade file.
 - 3) Click **Upgrade** to start upgrading.

Note: Only card readers connected via RS-485 can be upgraded. DS-K2800 series access controller only supports Wiegand card reader.

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System Maintenance
System Management
Reboot
Restore Default Settings
Restore All
Remote Upgrade
Select Type: Controller Upgrade
Select File: "Upgrade
Progress:

Managing User

Steps:

1. In the Remote Configuration interface, click **System** -> **User**.

Adding, Editi	ng or Deleting	the User		
G Add	📝 Edit	📅 Delete		
User Name	Priority	IP Address	MAC Address	Password Security
admin	Administrator	0.0.0.0	00:00:00:00:00:00	Risky

2. Click Add to add the user.

Or select a user in the user list and click **Edit** to edit the user. You are able to edit the user password, the IP address, the MAC address and the user permission. Cilck **OK** to confirm editing.

📕 User Parameter	term Park	Property and	
User Information			
User Type:	Administrator	User Name:	admin
Password:	••••	Confirm Password:	•••••
IP Address:	0.0.0.0	MAC Address:	00:00:00:00:00
User Primission			
Remote Operation:	Alarm Disarming		
🗹 Arm			
Remote Log Search	n/Status		
Remote Shutdown	/ Reboot		
Remote Parameter	Settings		
Get Parameters			
Restore Default Set	tings		
Remote Upgrade			
			•
			OK Cancel

Setting Security

Steps:

1. Click System -> Security.

Configuring the Security Parameters	
Encryption Mode	
Level: Compatible Mode	Save

- 2. Select the encryption mode in the dropdown list.
 - You can select Compatible Mode or Encryption Mode.
- 3. Click **Save** to save the settings.

Configuring Network Parameters

Click **Network** -> **General**. You can configure the NIC type, the IPv4 address, the subnet mask (IPv4), the default gateway (IPv4), MTU address, MTU, and the device port. Click **Save** to save the settings.

Configuring the Networ	k Parameters
NIC Type:	10M/100M/1000M Self 👻
IPv4 Address:	
Subnet Mask (IPv4):	
Default Gateway (IPv4):	
MAC Address:	
MTU(Byte):	1500
Device Port:	8000
	Save

Configuring Advanced Network

Click **Network** -> **Advanced Settings**. You can configure the DNS address 1, the DNS address 2, the alarm host IP and the alarm host port. Click **Save** to save the settings.

s

Configuring Relay Parameters

Steps:

1. Click Alarm -> Relay.

You can view the relay parameters.

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Configuring Relay Parameters								
Relay Name	Output Delay(s)	Zone Linkage Settings						
1	0	None 📝						
2	0	None 📝						
3	0	None 📝						
4	0	None 📝						

- 2. Click the do pop up the Relay Parameters Settings window.
- 3. Set the relay name and the output delay.
- Click Save to save the paramters.
 Or click Copy to... to copy the relay information to other relays.

Configuring Access Control Parameters

Steps:

- 1. In the Remote Configuration interface, click **Other** -> **Access Control Parameters**.
- 2. Select and check the **Press Key to Input Card No.** checkbox.
- 3. Click **Save** to save the settings.

Configuring Face Detection Parameters

Click **Other** -> **Face Detection**. You can check the **Enable** checkbox to enable the device face detection function.

Note: Only devices with video function support this function.

Configuring the Face	Detection Parameters
Enable	
Save	

Operating Relay

Steps:

- 1. Click **Operation** -> **Relay**.
- You can view the relay status.
- 2. Check the relay checkbox
- 3. Click **Open** or **Close** to open/close the relay.
- 4. (Optional) Click **Refresh** to refresh the relay status.

Relay Opera	ation			
Open	Close			Refresh
📄 Relay No.	Name	Status		
1		Close		
2		Close		
3		Close		
4		Close		

Viewing Relay Status

Click **Status** -> **Relay** to view the relay status.

Relay Sta	tus
Relay	Status
Relay1	Close
Relay2	Close
Relay3	Close
Relay4	Close

7.5 Person and Card Management

You can add, edit, and delete the organization and person in Person and Card Management module.

interface

Click Bearch		tab to	enter	the Per	rSON an e 🏼 Change C	nd Ca	rd Mana	gemen	t interf	Add Person in Batch	E7 Issue Card	in Batch
+ Add	🔀 Modify	× Delete									Search	9
👘 Depar	rtment 01		Person No	Person Name	Organization	Gender	Card Quantity	Fingerprint Qua.	Operation			
			2	Yining	Department 01	Male	1	0	- B B B			
			1	Wendy	Department 01	Female	1	0	8 ñ B			
	1						2					
			Total: 2 F	age: 1/1 Item per P	age: Self-adaptiv	e v				4 4 🕨 🕨 Pag	e	Go

is divided into two parts: Organization Management and Person Management.

1	Organization	You can add, edit, or delete the organization as						
L	Management	desired.						
2	Person Management	After adding the organization, you can add the person to the organization and issue card to persons for further management.						

7.5.1 Organization Management

Adding Organization

Steps:

1. In the organization list on the left, you should add a top organization as the parent organization of all organizations.

Click Add button to pop up the adding organization interface.

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Add Organization									
Organization:	Organization:								
	ОК	Cancel							

- 2. Input the Organization Name as desired.
- 3. Click **OK** to save the adding.
- You can add multiple levels of organizations according to the actual needs. To add sub organizations, select the parent organization and click Add. Repeat Step 2 and 3 to add the sub organization.

Then the added organization will be the sub-organization of the upper-level organization.

Note: Up to 10 levels of organizations can be created.

Modifying and Deleting Organization

You can select the added organization and click **Modify** to modify its name.

You can select an organization, and click **Delete** button to delete it.

Notes:

- The lower-level organizations will be deleted as well if you delete an organization.
- Make sure there is no person added under the organization, or the organization cannot be deleted.

7.5.2 Person Management

After adding the organization, you can add person to the organization and manage the added person such as issuing cards in batch, importing and exporting persons information in batch, etc. *Note:* Up to 10,000 persons or cards can be added.

Adding Person

Adding Person (Basic Information)

Steps:

1. Select an organization in the organization list and click **Add** button on the Person panel to pop up the adding person dialog.

	Add Person	×
Person No.:	2 *	
Person Name:	· · · · · · · · · · · · · · · · · · ·	
Gender:	Male Female *	
Phone No.:		
Date of Birth:	2017-01-18	
Place of Birth:		
Email:		
	Upload Pictur	re Take Photo
🛞 Details 🤰	🤱 Permission 🔃 Card 🧔 Fingerprint 🖭 Attenda	nce Rule
ID Type:	ID Country:	
ID No.:	City:	
Job Title:	Degree: Junior High	h School Diploma 👻
On Board Date:	2017-01-18 🕅 Employment Duration: 10	*
Linked Device:		~
Room No.:		
Address:		
Remark:		
	ОК	Cancel

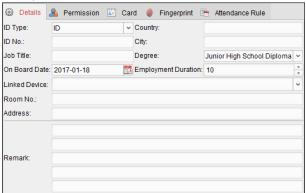
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- 2. The Person No. will be generated automatically and is not editable.
- 3. Input the basic information including person name, gender, phone No., birthday details, and email address.
- 4. Click **Upload Picture** to select the person picture from the local PC to upload it to the client. *Note:* The picture should be in *.jpg format.
- 5. (Optional) You can also click **Take Phone** to take the person's photo with the PC camera.
- 6. Click **OK** to finish adding.

Adding Person (Detailed Information)

Steps:

1. In the Add Person interface, click **Details** tab.



- 2. Input the detailed information of the person, including person's ID type, ID No., country, etc., according to actual needs.
 - Linked Device: You can bind the indoor station to the person.
 Note: If you select Analog Indoor Station in the Linked Device, the Door Station field will display and you are required to select the door station to communicate with the analog

indoor station.

- **Room No.:** You can input the room No. of the person.
- 3. Click **OK** to save the settings.

Adding Person (Permission)

You can assign the permissions (including operation permissions of access control device and access control permissions) to the person when adding person.

Note: For setting the access control permission, refer to *Chapter 7.7 Permission Configuration*. *Steps:*

1. In the Add Person interface, click **Permission** tab.

🌐 Details 💄 Permission 🔛 Card	🧔 Fingerprint 🔚 Attendance Rule
Device Operation Permis Normal User	~
Permission(s) to Select	Selected Permission(s)
	>>
	>
	<<
	<

In the Device Operation Role field, select the role of operating the access control device.
 Normal User: The person has the permission to check-in/out on the device, pass the access control point, etc.

Administrator: The person has the normal user permission, as well as permission to configure the device, including adding normal user, etc.

3. In the Permission(s) to Select list, all the configured permissions display.

Check the permission(s) checkbox(es) and click > to add to the Selected Permission(s) list. (Optional) You can click >> to add all the displayed permissions to the Selected Permission(s) list.

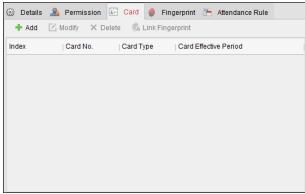
(Optional) In the Selected Permission(s) list, select the selected permission and click < to remove it. You can also click << to remove all the selected permissions.

4. Click **OK** to save the settings.

Adding Person (Card)

You can add card and issue the card to the person. *Steps:*

1. In the Add Person interface, click **Card** tab.



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2. Click **Add** to pop up the Add Card dialog.

	_	
	Add Card	×
Card Type:	Normal Card	~
Card Password:		
Effective Period:	From 2017-01-18 📆 To 2027-01-18 📆	
	Access Controller	Beed
Card Reader Mode	Card Enrollment S Set Card Enrollment Station	Read
	O Manually Input	Enter
Index	Card No. Card Type Card Effective Period	
	OKCan	cel

- 3. Select the card type according to actual needs.
 - Normal Card
 - **Card for Door Extended Opening**: The door will remain open for the configured time period for the card holder.
 - **Card in Blocklist**: The card swiping action will be uploaded and the door cannot be opened.
 - **Patrol Card**: The card swiping action can used for checking the working status of the inspection staff. The access permission of the inspection staff is configurable.
 - **Duress Card**: The door can open by swiping the duress card when there is duress. At the same time, the client can report the duress event.
 - **Super Card**: The card is valid for all the doors of the controller during the configured schedule.
 - Visitor Card: The card is assigned for visitors. For the Visitor Card, you can set the Max. Swipe Times.

Notes:

- The Max. Swipe Times should be between 0 and 255. When your swiping card times is more than the configured times, card swiping will be invalid.
- When set the times as 0, it means the card swiping is unlimited.
- 4. Input the password of the card itself in the Card Password field. The card password should contain 4 to 8 digits.

Note: The password will be required when the card holder swiping the card to get enter to or exit from the door if you enable the card reader authentication mode as **Card and Password**, **Password and Fingerprint**, and **Card**, **Password**, **and Fingerprint**. For details, *Chapter 7.8.2 Card Reader Authentication*.

- 5. Click 🖾 to set the effective time and expiry time of the card.
- 6. Select the Card Reader Mode for reading the card No.
 - Access Controller Reader: Place the card on the reader of the Access Controller and click Read to get the card No.

• **Card Enrollment Station:** Place the card on the Card Enrollment Station and click **Read** to get the card No.

Note: The Card Enrollment Station should connect with the PC running the client. You can click **Set Card Enrollment Station** to enter the following dialog.

Card	Enrollment Station		×
Туре:	DS-K1F100-D8	~	
Connection Mode:			
Serial Port No.:	Com1	~	
Baud Rate:	19200	~	
Timeout after:	500		ms
Buzzing:	Yes	O No	
Card No. Type:	Normal	~	
M1 Card Encryption	Enable		
Sector	Selected Sectors (0/0)	Modify	
	All		
	Destara Dafault Value		0.10
	Restore Default Value	s	ave

- Select the Card Enrollment Station type.
 Note: Currently, the supported card reader types include DS-K1F100-D8, DS-K1F100-M, DS-K1F100-D8E, and DS-K1F180-D8E.
- 3) Set the serial port No., the baud rate, the timeout value, the buzzing, or the card No. type.

Note: DS-K2800 series access controller does not support the M1 card encryption function.

4) Click Save button to save the settings.

You can click **Restore Default Value** button to restore the defaults.

- Manually Input: Input the card No. and click Enter to input the card No.
- 7. Click **OK** and the card(s) will be issued to the person.
- 8. (Optional) You can select the added card and click **Edit** or **Delete** to edit or delete the card.
- 9. Click **OK** to save the settings.

Adding Person (Attendance Rule)

You can set the attendance rule for the person.

Note: This tab page will display when you select **Non-Residence** mode in the application scene when running the software for the first time.

Steps:

1. In the Add Person interface, click **Attendance Rule** tab.

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63	Details	<u></u>	Permission	1	Card	9	Fingerprint	-	Attendance Rule	
	Time and	d Atter	ndance							
	Sche	dule	Shift by Organ	izatio	n					
	Chec	k-in N	Not Required			heck	k-out Not Requ	uired		
	Effect	tive fo	or Overtime		✓ E	ffecti	ive for Holiday			
	More									

2. If the person joins in the time and attendance, check the **Time and Attendance** checkbox to enable this function for the person. Then the person's card swiping records will be recorded and analyzed for time and attendance.

For details about Time and Attendance, click **More** to go to the Time and Attendance module.

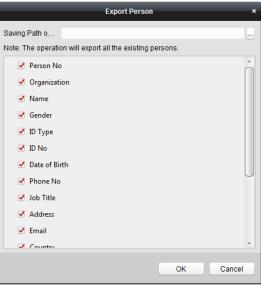
3. Click **OK** to save the settings.

Importing and Exporting Person Information

The person information can be imported and exported in batch.

Steps:

- 1. **Exporting Person:** You can export the added persons' information in Excel format to the local PC.
 - 1) After adding the person, you can click **Export Person** button in the Person and Card tab to pop up the following dialog.
 - 2) Click to select the path of saving the exported Excel file.
 - 3) Check the checkboxes to select the person information to export.



- 4) Click **OK** to start exporting.
- 2. **Importing Person:** You can import the Excel file with persons information in batch from the local PC
 - 1) click Import Person button in the Person and Card tab.

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	Import Person	×
Please select the	e file to import.	
Import File:		
	Download Template for Importing Person	
	ОК	Cancel
	UK	Calicer

- 2) You can click **Download Template for Importing Person** to download the template first.
- 3) Input the person information to the downloaded template.
- 4) Click 📃 to select the Excel file with person information.
- 5) Click **OK** to start importing.

Getting Person Information from Access Control Device

If the added access control device has been configured with person information (including person details, fingerprint, issued card information), you can get the person information from the device and import to the client for further operation.

Note: This function is only supported by the device the connection mothod of which is TCP/IP when adding the device.

Steps:

- 1. In the organization list on the left, click to select an organization to import the persons.
- 2. Click **Get Person** button to pop up the following dialog box.

_	_	Select Device		×
Nickname	IP			
10.18.146.86	10.18.146.86			
10.16.6.112	10.16.6.112			
10.16.6.111	10.16.6.111			
Note: If the perso from the other de		added to other dep	partment, he/she will be delet	ed
			OK Cancel	

- 3. The added access control device will be displayed.
- 4. Click to select the device and then click **OK** to start getting the person information from the device.

You can also double click the device name to start getting the person information.

Notes:

- The person information, including person details, person's fingerprint information (if configured), and the linked card (if configured), will be imported to the selected organization.
- If the person name stored in the device is empty, the person name will be filled with the issued card No. after importing to the client.
- The gender of the persons will be **Male** by default.
- Up to 10000 persons with up to 5 cards each can be imported.

Managing Person

Modifying and Deleting Person

To modify the person information and attendance rule, click 🗎 or 🖶 in the Operation column, or select the person and click **Modify** to open the editing person dialog.

You can click 😐 to view the person's card swiping records.

To delete the person, select a person and click **Delete** to delete it.

Note: If a card is issued to the current person, the linkage will be invalid after the person is deleted.

Changing Person to Other Organization

You can move the person to another organization if needed. *Steps:*

1. Select the person in the list and click **Change Organization** button.

	Change Organization	×
Organization:	test2	~
	OK Cancel	

- 2. Select the organization to move the person to.
- 3. Click **OK** to save the settings.

Issuing Card in Batch

You can issue multiple cards for the person with no card issued in batch.

Steps:

- 1. Click **Issue Card in Batch** button to enter the following dialog.
 - All the added person with no card issued will display in the Person(s) with No Card Issued list.

	12	sueca	u III Datoli			Ŷ
Card Type:	Normal Card					~
Card Password:						
Card Quantity:	1					* *
Effective Period:	From 2017-01-18 🔂 To	20	27-01-18 📆			
	Access Controller Reader				~	
Card Reader Mode:	Card Enrollment Station		Set Card Enrollr	ment Station		Read
	Manually Input					Enter
Person(s) with No Card	Issued		Person(s) with C	ard Issued		
Person Name Geno	der Department		Person Name	Card No.	Gender	Departn
Wendy Fema	le Department 1					
Cindy Fema	Department 1/Sub	Depar				
			+			Þ
					ок	Cancel

Select the card type according to actual needs.
 Note: For details about the card type, refer to *Adding Person*.

3. Input the password of the card itself in the Card Password field. The card password should contain 4 to 8 digits.

Note: The password will be required when the card holder swiping the card to get enter to or exit from the door if you enable the card reader authentication mode as **Card and Password**, **Password and Fingerprint**, and **Card**, **Password**, **and Fingerprint**. For details, refer to *Chapter 7.8.2 Card Reader Authentication*.

- 4. Input the card quantity issued for each person. For example, if the Card Quantity is 3, you can read or enter three card No. for each person.
- 5. Click 🖾 to set the effective time and expiry time of the card.
- 6. Select the Card Reader Mode for reading the card No.
 - Access Controller Reader: Place the card on the reader of the Access Controller and click Read to get the card No.
 - **Card Enrollment Station:** Place the card on the Card Enrollment Station and click **Read** to get the card No.

Note: The Card Enrollment Station should connect with the PC running the client. You can click **Set Card Enrollment Station** to enter the following dialog.

Car	d Enrollment Station	×
Cui		
Type:	DS-K1F100-D8 🗸	
Connection M	lode: USB	
Timeout after	500 ms	3
Buzzing:	🖲 Yes 🔘 No	
Card No. Type	e: Normal Y	
	atara Dafaulti Valua	
R	estore Default Value Save	

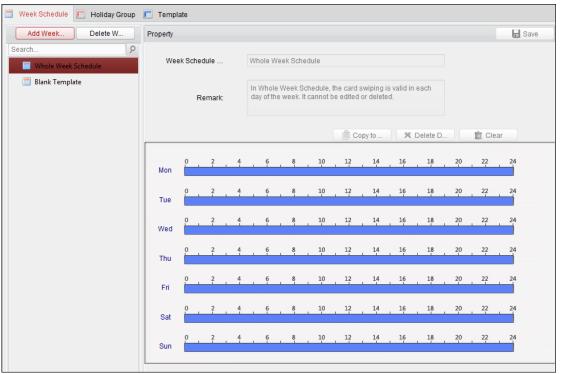
- Select the Card Enrollment Station type.
 Note: Currently, the supported card reader types include DS-K1F100-D8, DS-K1F100-M, DS-K1F100-D8E, and DS-K1F180-D8E.
- 2) Set the parameters about the connected card enrollment station.
- Click Save button to save the settings.
 You can click Restore Default Value button to restore the defaults.
- Manually Input: Input the card No. and click Enter to input the card No.
- 7. After issuing the card to the person, the person and card information will display in the Person(s) with Card Issued list.
- 8. Click **OK** to save the settings.

7.6 Schedule and Template

Purpose:

You can configure the template including week schedule and holiday schedule. After setting the templates, you can adopt the configured templates to access control permissions when setting the permission, so that the access control permission will take effect in the time durations of the template.

Click 🗟 to enter the schedule and template interface.



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You can manage the schedule of access control permission including Week Schedule, Holiday Schedule, and Template. For permission settings, please refer to *Chapter 7.7 Permission Configuration*.

7.6.1 Week Schedule

Click **Week Schedule** tab to enter the Week Schedule Management interface.

The client defines two kinds of week plan by default: **Whole Week Schedule** and **Blank Schedule**, which cannot be deleted and edited.

- Whole Week Schedule: Card swiping is valid on each day of the week.
- Blank Schedule: Card swiping is invalid on each day of the week.

You can perform the following steps to define custom schedules on your demand. *Steps:*

1. Click Add Week Schedule button to pop up the adding schedule interface.

Add Week Schedule	×
OK Cancel	
	Add Week Schedule

- 2. Input the name of week schedule and click **OK** button to add the week schedule.
- 3. Select the added week schedule in the schedule list and you can view its property on the right. You can edit the week schedule name and input the remark information.
- 4. On the week schedule, click and drag on a day to draw on the schedule, which means in that

period of time, the configured permission is activated.

Note: Up to 8 time periods can be set for each day in the schedule.

- 5. When the cursor turns to 🕅, you can move the selected time bar you just edited. You can also edit the displayed time point to set the accurate time period.
- When the cursor turns to 🚱 , you can lengthen or shorten the selected time bar.
- Optionally, you can select the schedule time bar, and then click **Delete Duration** to delete the selected time bar, or click **Clear** to delete all the time bars, or click **Copy to Week** to copy the time bar settings to the whole week.
- 7. Click **Save** to save the settings.

7.6.2 Holiday Group

🔲 Week Schedule 🔲 Holiday Group	Templa	te				
Add Holi Delete H	Property					Save
Search 9	Holiday C	Group:	Holiday Group 1			
		mark:				
	Holiday List				+ Add Holiday	Next Page
	Index	Start Date	End Date	Duration		Operation
	1	2017-01-01	1 🔀 2017-01-03		6 8 10 12 14 16 18 20 22 24	x 💼 🗙

Click **Holiday Group** tab to enter the Holiday Group Management interface.

Steps:

1. Click **Add Holiday Group** button on the left to pop up the adding holiday group interface.

Add Holiday Group	×
Holiday Group Name: Long Holiday	
OK Cancel	

- 2. Input the name of holiday group in the text filed and click **OK** button to add the holiday group.
- 3. Select the added holiday group and you can edit the holiday group name and input the remark

information.

4. Click **Add Holiday** icon on the right to add a holiday period to the holiday list and configure the duration of the holiday.

Note: Up to 16 holidays can be added to one holiday group.

Holiday List				+ Add Holiday	Next Page
Serial No.	Start Date	End Date	Duration		Operation
1	3/9/2016	3/9/2016 🛅	0 2 4 6	8 10 12 14 16 18 20 22 24	4 🛛 💼 🗙
2	3/23/2016 置	3/31/2016 📆	0 2 4 6	8 10 12 14 16 18 20 22 24	4 🕺 💼 🗙

1) On the period schedule, click and drag to draw the period, which means in that period of time, the configured permission is activated.

Note: Up to 8 time durations can be set for each period in the schedule.

- 2) When the cursor turns to X, you can move the selected time bar you just edited. You can also edit the displayed time point to set the accurate time period.
- 3) When the cursor turns to 🖾, you can lengthen or shorten the selected time bar.
- 4) Optionally, you can select the schedule time bar,

and then click \bowtie to delete the selected time bar,

- or click 🔟 to delete all the time bars of the holiday,
- or click 🕺 to delete the holiday directly.
- 5. Click **Save** to save the settings.

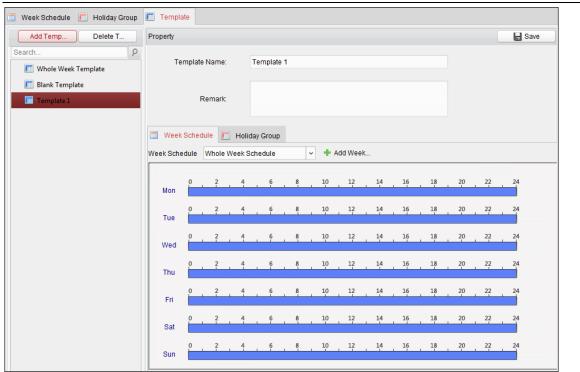
Note: The holidays cannot be overlapped with each other.

7.6.3 Template

After setting the week schedule and holiday group, you can configure the template which contains week schedule and holiday group schedule.

Note: The priority of holiday group schedule is higher than the week schedule.

Click **Template** tab to enter the Template Management interface.



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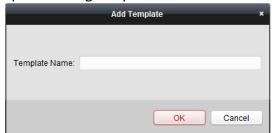
There are two pre-defined templates by default: **Whole Week Template** and **Blank Template**, which cannot be deleted and edited.

- Whole Week Template: The card swiping is valid on each day of the week and it has no holiday group schedule.
- **Blank Template:** The card swiping is invalid on each day of the week and it has no holiday group schedule.

You can define custom templates on your demand.

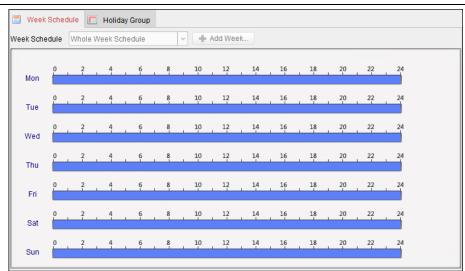
Steps:

1. Click Add Template to pop up the adding template interface.



- 2. Input the template name in the text filed and click **OK** button to add the template.
- 3. Select the added template and you can edit its property on the right. You can edit the template name and input the remark information.
- Select a week schedule to apply to the schedule. Click Week Schedule tab and select a schedule in the dropdown list. You can also click Add Week Schedule to add a new week schedule. For details, refer to Chapter 7.6.1 Week Schedule.

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5. Select holiday groups to apply to the schedule. *Note:* Up to 4 holiday groups can be added.

iday Group to Select		Selected H	loliday Group	
Add Holi		Index	Holiday Group Name	Remark
Search 9		1	Holiday Group 1	
	🛉 Add			
	🗶 Delete			
	💼 Clear			

Click to select a holiday group in the list and click **Add** to add it to the template. You can also click **Add Holiday Group** to add a new one. For details, refer to *Chapter 7.6.2 Holiday Group*. You can click to select an added holiday group in the right-side list and click **Delete** to delete it. You can click **Clear** to delete all the added holiday groups.

6. Click **Save** button to save the settings.

7.7 Permission Configuration

In Permission Configuration module, you can add, edit, and delete the access control permission, and then apply the permission settings to the device to take effect.

Click icon to enter the Access Control Permission interface.

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Permission Name Template	Person	Door	Details	Status
Door 2 Permissi Whole Week Te	Wendy	Door Station	<u>Details</u>	Not Applied
Door 1 Permissi Whole Week Te	Wendy, Yining	Door1_10.16.6.1	<u>Details</u>	Applying failed

7.7.1 Adding Permission

Purpose:

You can assign permission for persons to enter/exist the access control points (doors) in this section.

Steps:

1. Click **Add** icon to enter following interface.

		Add F	Permi	ission ×
Permission Name:	This is an example			
Template:	Whole Week Template		~	Add Template
Person				Selected Person
Search		9		Search P
🖃 🗆 🏠 Departn	nent 01			Person Name Organization
🗆 🚨 Wer	ndy			
🗆 🚨 Yini	ng		>	
🛨 🗌 🏠 test			<	
Access Control Poir Search	11/Device	ρ		Selected Access Control Point/Device Search P
+ C 🔄 10.16.6.1	112	-		Access Contro Door Group
······································	6.86			
🕑 🗔 🔤 10.16.6.1	111		>	
🗌 📾 Door Sta	ation		<	
				OK Cancel

- 2. In the Permission Name field, input the name for the permission as desired.
- Click on the dropdown menu to select a template for the permission.
 Note: You should configure the template before permission settings. You can click Add Template button to add the template. Refer to Chapter 7.6 Schedule and Template for details.
- 4. In the Person list, all the added persons display.
 Check the checkbox(es) to select person(s) and click > to add to the Selected Person list.
 (Optional) You can select the person in Selected Person list and click < to cancel the selection.
- 5. In the Access Control Point/Device list, all the added access control points (doors) and door stations will display.

Check the checkbox(es) to select door(s) or door station(s) and click > to add to the selected list.

(Optional) You can select the door or door station in the selected list and click < to cancel the selection.

6. Click **OK** button to complete the permission adding. The selected person will have the

permission to enter/exit the selected door/door station with their linked card(s) or fingerprints.

(Optional) after adding the permission, you can click **Details** to modify it. Or you can select the permission and click **Modify** to modify.
 You can select the added permission in the list and click **Delate** to delate it.

You can select the added permission in the list and click **Delete** to delete it.

7.7.2 Applying Permission

Purpose:

After configuring the permissions, you should apply the added permission to the access control device to take effect.

Steps:

- 1. Select the permission(s) to apply to the access control device. To select multiple permissions, you can hold the *Ctrl* or *Shift* key and select permissions.
- 2. Click **Apply to Device** to start applying the selected permission(s) to the access control device or door station.
- 3. The following window will pop up, indicating the applying permission result.

Application Result					
Applying Permission Settings Progr	ess:		Applied (100%)		
				100%	
Filter					
Permission	Progress	Result			
p1	100%	Applied			
				Close	

7.8 Advanced Functions

Purpose:

After configuring the person, template, and access control permission, you can configure the advanced functions of access control application.

Note: The advanced functions should be supported by the device.

Card Reader A.	🛗 Multiple A 📼 Open Door wi ∓ Anti-	p 🌐 Cross-Controller Anti-p 📠	
Controller List	Card Reader Information:		F S
Search	Nickname:	Entrance Card Reader1	
😑 🚦 Access Controller_01	Enable Card Reader:	Yes	-
🖃 📓 Door1	OK LED Polarity:	Anode	-
The second secon	Error LED Polarity:	Anode	7
The Exit Card Reader2	Buzzer Polarity:	Anode	7
Door2 Door3	Minimum Card Swiping Interval:	0	s
Door4	Max. Interval When Inputting Password:	10	s
	Enable Failed Attempts Limit of Card Readi	No	7
	Max. Times of Card Swiping Failure:	5	
	Enable Tampering Detection:	No	
	Detect When Card Reader is Offline for:	0	S
	Fingerprint Recognition Level:	Low	
	Card Reader Type:		
	Card Reader Description:	Wiegand\485Offlineild20170113	
	Buzzing Time:	10	S

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7.8.1 Access Control Parameters

Purpose:

After configuring the person, template, and access control permission, you can configure the advanced functions of access control application.

Click Access Control Parameters tab to enter the parameters settings interface.

Door Parameters

Steps:

1. In the controller list on the left, click 📧 to expand the access control device, select the door (access control point) and you can edit the information of the selected door on the right.

Door Information:		🚽 Save
Door Magnetic:	Remain Closed 🗸	
Exit Button Type:	Remain Closed 🗸	
Door Locked Time:	5	s
Door Open Duration by Card for Disabled P	15	s
Door Open Timeout Alarm:	30	s
Enable Locking Door when Door Closed:	No	
Duress Code:	33	
Super Password:		
Dismiss Code:		

2. You can editing the following parameters:

Door Magnetic: The Door Magnetic is in the status of **Remain Closed** (excluding special conditions).

Exit Button Type: The Exit Button Type is in the status of **Remain Open** (excluding special conditions).

Door Locked Time: After swiping the normal card and relay action, the timer for locking the door starts working.

Door Open Duration by Card for Door Extended Opening: The door magnetic can be enabled with appropriate delay after card holder swipes the card.

Door Open Timeout Alarm: The alarm can be triggered if the door has not been close

Enable Locking Door when Door Closed (Reserved): The door can be locked once it is closed even if the Door Locked Time is not reached.

Duress Code: The door can open by inputting the duress code when there is duress. At the same time, the client can report the duress event.

Super Password: The specific person can open the door by inputting the super password.

Dismiss Code: Input the dismiss code to stop the buzzer of the card reader.

Notes:

- The duress code, Super password, and dismiss code should be different.
- The duress code, super password, and the dismiss code should be different from the authentication password.
- The duress code, super password, and the dismiss code should contain 4 to 8 numerics.
- 3. Click **Save** button to save parameters.

Card Reader Parameters

Steps:

- 1. In the device list on the left, click 📧 to expand the door, select the card reader name and you can edit the card reader parameters on the right.
- 2. You can editing the following parameters:

Nickname: Edit the card reader name as desired.

Enable Card Reader: Select Yes to enable the card reader.

OK LED Polarity: Select the OK LED Polarity of the card reader mainboard.

Error LED Polarity: Select the Error LED Polarity of the card reader mainboard.

Buzzer Polarity: Select the Buzzer LED Polarity of the card reader mainboard.

Minimum Card Swiping Interval: If the interval between card swiping of the same card is less than the set value, the card swiping is invalid. You can set it as 0 to 255.

Max. Interval When Inputting Password: When you inputting the password on the card reader, if the interval between pressing two digits is larger than the set value, the digits you pressed before will be cleared automatically.

Enable Failed Attempts Limit of Card Reading: Enable to report alarm when the card reading attempts reach the set value.

Max. Times of Card Swiping Failure: Set the max. failure attempts of reading card.

Enable Tampering Detection: Enable the anti-tamper detection for the card reader.

Note: For DS-K2800 series access controller, the function is not supported yet.

Detect When Card Reader is Offline for: When the access control device cannot connect with

the card reader for longer than the set time, the card reader will turn offline automatically. *Note:* For DS-K2800 series access controller, the function is not supported yet.

Buzzing Time: Set the card reader buzzing time. The available time ranges from 0 to 5999s. 0 represents continuous buzzing.

Card Reader Description: Read the card reader description.

3. Click the **Save** button to save parameters.

7.8.2 Card Reader Authentication

Purpose:

You can set the passing rules for the card reader of the access control device.

Steps:

- 1. Click Card Reader Authentication tab and select a card reader on the left.
- 2. Select a card reader authentication mode. The available authentication modes depend on the card reader type:
 - **Card and Password**: The door can open by both inputting the card password and swiping the card.

Note: Here the password refers to the password set when issuing the card to the person. *Chapter 7.5.2 Person Management.*

• **Card or Authentication Password**: The door can open by inputting the authentication password or swiping the card.

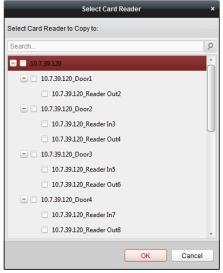
Note: Here the authentication password refers to the password set to open the door. Refer to *Chapter 7.8.5 Authentication Password.*

- **Card**: The door can open by only swiping the card.
- 3. Click and drag your mouse on a day to draw a color bar on the schedule, which means in that period of time, the card reader authentication is valid.
- 4. Repeat the above step to set other time periods.

Or you can select a configured day and click **Copy to Week** button to copy the same settings to the whole week.

(Optional) You can click **Delete** button to delete the selected time period or click **Clear** button to delete all the configured time periods.

5. (Optional) Click **Copy to** button to copy the settings to other card readers.



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6. Click **Save** button to save parameters.

7.8.3 Open Door with First Card

Purpose:

You can set multiple first cards for one access control point. After the first card swiping, it allows multiple persons access the door or other authentication actions. The first card mode contains Remain Open with First Card, Disable Remain Open with First Card, and First Card Authorization.

Remain Open with First Card: The door remains open for the configured time duration after the first card swiping until the remain open duration ends.

First Card Authorization: All authentications, except for the authentications of super card, duress card, and duress code, are allowed only after the first card authorization.

Steps:

1. Click **Open Door with First Card** tab to enter the following interface.

Controller List	Door Open by First Card Param	E Save				
Search P	Access Control Point	First Card Mode	First Card Mode Remain Open Duratio			
Access Controller_2	Door1	Remain Open with First Card	~	10		
	Door2	Disable Remain Open with	~	10		
	First Card List					
	+ Add × Delete			Filter		
	Card No. Person	Name Effective Date	e	Expiry Date		
	Total:0 Page:1/1 Item Per Pag	e: 100 🗸		4	⊨F	Page Go to

2. Select an access control device from the list on the left.

- 3. Select the first card mode in the drop-down list for the access control point.
- 4. (Optional) If you select Remain Open with First Card, you should set remain open duration. *Notes:*
 - The Remain Open Duration should be between 0 and 1440 minutes. By default, it is 10 minutes.
 - In the First Card Authorization mode, you can access the door when swiping the super card, the duress card or input the duress code without swiping the first card.
 - You can swipe the first card again to disable the first card mode.
 - The first card authorization is effective only on the current day. The authorization will be expired after 24:00 on the current day.
- 5. In the First Card list, Click **Add** button to pop up the following dialog box.

		Add Card			×
Select the ca	rd to add:				
Filter					
Card No.	¥	Person	Vame		
12345667		Yining			
776433245		Wendy			
Total:2 Page	e:1/1 Item Per Pag	ge: 🖂 🖣	► H	Page	Go to
			ОК	c	ancel

- Select the cards to add as first card for the door *Note:* Please set the card permission and apply the permission setting to the access control device first. For details, refer to *Chapter 7.7 Permission Configuration*.
- 2) Click **OK** button to save adding the card.
- 6. You can click **Delete** button to remove the card from the first card list.
- 7. Click **Save** to save and take effect of the new settings.

7.8.4 Anti-Passing Back

Purpose:

You can set anti-passing back for card readers in the same access controller. You should swipe the card according to the configured swiping card route. And only one person could pass the access control point after swiping the card.

Notes:

• Either the anti-passing back or multi-door interlocking function can be configured for an access control device at the same time.

• You should enable the anti-passing back function on the access control device first.

Setting the Path of Swiping Card (Card Reader Order) *Steps:*

1. Click **Anti-passing Back** tab to enter the following interface.

Controller List	Property	ave 🚽 Save
Search 9		
. 10.18.146.86	Controller Name: 10.18.146.86	
	First Card Read Entrance Card Reader1	
	Index Card Reader Card Reader Afterward	
	1 Entrance Card Reader1 Entrance Card Reader3,E	xit Card Reader4
	2 Exit Card Reader2	
	3 Entrance Card Reader3	
	4 Exit Card Reader4	
	5 Entrance Card Reader5	
	6 Exit Card Reader6	
	7 Entrance Card Reader7	
	8 Exit Card Reader8	

- 2. Select an access control device from the device list on the left.
- 3. In the First Card Reader field, select the card reader as the beginning of the path.
- 4. In the list, click the text filed of Card Reader Afterward and select the linked card readers. Example: If you select Reader In_01 as the beginning, and select Reader In_02, Reader Out_04 as the linked card readers. Then you can only get through the access control point by swiping the card in the order as Reader In_01, Reader In_02 and Reader Out_04.

Select Card Reader ×
Select the card reader:
Search
10.7.39.120_Reader Out2
10.7.39.120_Reader In3
10.7.39.120_Reader Out4
10.7.39.120_Reader In5
10.7.39.120_Reader Out6
10.7.39.120_Reader In7
10.7.39.120_Reader Out8
OK Cancel

Note: Up to four afterward card readers can be added for one card reader.

- 5. (Optional) You can enter the Select Card Reader dialog box again to edit its afterward card readers.
- 6. Click **Save** to save and take effect of the new settings.

7.8.5 Authentication Password

Purpose:

You can open the door by inputting the authentication password on the card reader keypad after finishing the operation of setting authentication password.

Notes:

- This authentication password function is only valid during the schedules when the card reader authentication mode for the access control device is set as **Card or Authentication Password**. For details, please refer to *Chapter 7.8.2 Card Reader Authentication*.
- This function should be supported by the access control device.

Steps:

1. Click Authentication Password tab and select an access control device from the list.

Controller List	Card List			Save
Search 9				Filter
. 10.18.146.86	Card No.	Person Name	Password	
	999	999	Please input the authentication password.	
	776433245	Wendy	9638	
	12345667	Yining	8527	

All the cards and persons which have been applied to the device will be displayed. *Note:* For setting and applying the permissions to the device, refer to *Chapter 7.7 Permission Configuration*.

- 2. Click the **Password** field of the card and input the authentication password for the card. *Note:* The authentication password should contain 4 to 8 digits.
- 3. After setting the authentication password, the authentication password function of the card will be enabled by default.
- 4. (Optional) You can input the keywords of card No., person name, or authentication password to search.

Notes:

- Up to 500 cards with authentication password can be added to one access control device.
- The password should be unique and cannot be the same with super password, duress code, and dismiss code in the access control parameters.

7.8.6 Custom Wiegand

Purpose:

Based on the knowledge of uploading rule for the third party wiegand, you can set multiple customized wiegand protocols to communicate between the controller and the third party card readers.

Before you start:

Wire the third party card readers to the controller.

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Steps:

1. Click Custom Wiegand to enter the Custom Wiegand tab.

Custom Wiegand List	Details					E Save
Custom Wiegand 1 Custom Wiegand 2 Custom Wiegand 3 Custom Wiegand 4	Enable Custom Wiega Select Device:	Select Acces	s Controller			
Custom Wiegand 5		Selected Acces	s Controllers	(0/0)	× Delete	🧰 clear
	Total Length(bit): Parity Mode: Odd Parity Start Bit: Even Parity Start Bit: Output Transformation	Odd-Even Parity	Length: Length: Rule			

- 2. Select a custom wiegand on the left of the interface.
- 3. Check Enable checkbox to enable the custom wiegand.
- 4. Set the wiegand name.
- 5. Select device.
 - 1) Click Select Device.
 - 2) Select the device need to use custom wiegand.
 - 3) Click **OK** to save the settings.
- 6. Input the Total Length and select the parity mode in the drop-down list.

If you select Odd-Even Parity, you should set the odd parity start bit, the odd parity length, the even parity start bit and the even parity length.

If you select XOR Parity, you should set the XOR parity start bit, length per group and total length.

If you select None, you are no need to set the parity mode.

- 7. Set output transformation rule.
 - 1) Click Set Rule to pop up the Set Output Transformation Rules window.

Set Output T	ransfor	mation Rules	×
Selectable Rules:		Selected Rules:	
Card ID		Manufacturer Code	\uparrow \downarrow
Manufacturer Code	\gg	Site Code	$\land \downarrow$
Site Code	<i>«</i>	OEM	$\uparrow \downarrow$
OEM			
		ОК	Cancel

2) Select rules on the left list.

Note: Press the *Shift* key to select multiple rules.

- 3) Click >> to move the selected rules to the right list.
- 4) (Optional) Click \checkmark or \land to change the rule order.
- 5) (Optional) Select the rules in the Selected Rule list and click 📧 to remove the rule from the list on the right.
- 6) Click **OK** to save the settings.
- 7) In the Custom Wiegand tab, set the rule start bit, length, and the decimal digit.
- 8. Click **Save** at the upper right corner of the interface to save the settings.

Notes:

- By default, the device disables the custom wiegand function.
- If the device enables the custom wiegand function, all wiegand interfaces in the device will use the customized wiegand protocol.
- Up to 5 custom wiegands can be set.
- Up to 32 characters are allowed in the custom wiegand name.
- Up to 80 bits are available in the total length.
- The odd parity start bit, the odd parity length, the even parity start bit and the even parity length range from 1 to 80 bit.
- The start bit of the card ID, the manufacturer code, the site code, and the OEM should range from 1 to 80 bit.
- For details about the custom wiegand, see Appendix.

7.9 Searching Access Control Event

Purpose:

You can search the access control history events including device exception event, door event, alarm input, and card reader event.

Click 🔤 icon and click Access Control Event tab to enter the following interface.

Access Control Event	Call Log Unlocking Lo	g Notice			
Source Device Event Type:	Client O Device All	With Captured Picture	2017-05-04 00:00:00		Card Holder Information
Card Holder Name: Card No.:	•)	2017-05-04 23:59:59 🗱 All 🗸	Search	
Search Result		d Reader Card Type	Card No.	Export	
					Person No.: Person Name: Gender: D Type: D Type: D No.: Organization: Phone No.: Address:
Total:0 Page:1/1		Id	A Page	Go	

Steps:

- 1. Select the source.
 - You can select Client or Device.
- 2. Enter the search condition (source, event type/card holder name/card No./capture/start & end time).
- 3. Click **Search** to get the search results.
- 4. View the event information in the event list.
- 5. Click an event to view the information of the card holder on the **Card Holder Information** panel on the left side of the page.
- 6. You can click **Export** button to export the search results to the local PC.

7.10 Access Control Event Configuration

Purpose:

For the added access control device, you can configure its access control linkage including access control event linkage, access control alarm input linkage, event card linkage, and cross-device linkage.

Click the *icon* on the control panel,

or click Tool->Event Management to open the Event Management page.

7.10.1 Access Control Event Linkage

Purpose:

You can assign linkage actions to the access control event by setting up a rule. For example, when the access control event is detected, an audible warning appears or other linkage actions happen.

Note: The linkage here refers to the linkage of the client software's own actions. *Steps:*

- 1. Click the Access Control Event tab.
- 2. The added access control devices will display in the Access Control Device panel on the left. Select the access control device, or alarm input, or access control point (door), or card reader to configure the event linkage.
- 3. Select the event type to set the linkage.
- 4. Select the triggered camera. The image or video from the triggered camera will pop up when the selected event occurs.

To capture the picture of the triggered camera when the selected event occurs, you can also set the capture schedule and the storage in Storage Schedule.

- 5. Check the checkboxes to activate the linkage actions. For details, refer to *Table 14.1 Linkage Actions for Access Control Event*.
- 6. Click **Save** to save the settings.
- 7. You can click Copy to button to copy the access control event to other access control device, alarm input, access control point, or card reader.

Select the parameters for copy, select the target to copy to, and click **OK** to confirm.

Access Control Device			Copy to	Gave Save
Search	P Event Type:	Trigger Camera:	~	
😑 👢 Access Controller_01	Event Type.			
🔈 Event1	II All	Trigger Client		
🍐 Event2	Open Door with First Card Started	Audible Warning Other Alarm Sound	· ·	
🌲 Event3	Open Door with First Card Stopped	🗹 Email Linkage		
🌲 Event4	Remain Open Started	✓ Alarm Triggere		
🌲 Event5	Remain Open Stopped	✓ Alarm on E-map		
🔈 Eventő	Remain Closed Started			
🔈 Event7	Remain Closed Stopped			
🔈 Event8	Unlock Door			
👑 Zone1	Lock Door			
👑 Zone2	Exit Button Pressed			
👑 Zone3	Exit Button Released			
👑 Zone4	Normally Open Door			
😁 📓 Door1	Normally Close Door			
🐮 📕 Door2	Abnormally Open Door			
🔹 📕 Door3	Open Door Timeout			
🕐 🧧 Door4	Remotely Open Door			
	Remotely Close Door			
	Pempin Onen Pemetekr	*		

Table 1. 1 Linkage Actions for Access Control Event

Linkage Actions	Descriptions
Audible Warning	The client software gives an audible warning when alarm is triggered. You can select the alarm sound for audible warning.
Email Linkage	Send an email notification of the alarm information to one or more receivers.
Alarm on E-map	Display the alarm information on the E-map. <i>Note:</i> This linkage is only available to access control point and alarm input.

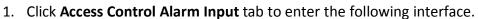
Alarm Triggered	The	image	with	alarm	information	pops	up	when	alarm	is
Pop-up Image	trigg	ered.								

7.10.2 Access Control Alarm Input Linkage

Purpose:

The access control alarm inputs can be linked to some actions (e.g., alarm output, host buzzer) when it is triggered.

Note: The linkage here refers to the linkage of the client software's own actions. *Steps:*



Event	Property		Bave
Search	Host Buzzer Card Reader Buzzing	Not Trigger Trigger	*
♪ Event1 ♪ Event2 ♪ Event3 ♪ Event4 ♪ Event5 ♪ Event6 ♪ Event7 ♪ Event8	Alarm Output	Name Property Entrance Card Read Not Trigger Exit Card Reader2 Not Trigger Entrance Card Read Not Trigger Trigger Trigger 10.18.146.86_Alarm Not Trigger	
		Door1 No Tri Not Trigger Door2 No Tri Not Trigger Door3 No Tri Not Trigger Door4 No Tri Not Trigger	•

- 2. In the event list on the left, select an alarm input.
- Switch the property from
 to
 to
 to enable this action.
 Host Buzzer: The audible warning of controller will be triggered.
 Card Reader Buzzer: The audible warning of card reader will be triggered.
 Alarm Output: The alarm output will be triggered for notification.
 Access Control Point (Open/Close): The door will be open or closed when the case is triggered.
 Note: The Door cannot be configured as open or closed at the same time.
- 4. Click Save button to save the settings.

7.10.3 Event Card Linkage

Click **Event Card Linkage** tab to enter the following interface. *Notes:*

• The Event Card Linkage should be supported by the device.

• The linkage here refers to the linkage of the client software's own actions.

Select the access control device from the list on the left.

Click Add button to add a new linkage. You can select the event source as **Event Linkage** or **Card Linkage**.

Event Linkage

For the event linkage, the alarm event can be divided into four types: device event, alarm input, door event, and card reader event.

Steps:

- 1. Click to select the linkage type as **Event Linkage**, and select the event type from the dropdown list.
 - For Device Event, select the detailed event type from the dropdown list.
 - For Alarm Input, select the type as alarm or alarm recovery and select the alarm input name from the table.
 - For Door Event, select the detailed event type and select the source door from the table.
 - For Card Reader Event, select the detailed event type and select the card reader from the table.
- 2. Set the linkage target, and switch the property from 💭 to **C** to enable this function.
 - **Host Buzzer:** The audible warning of controller will be enabled/disabled.
 - **Capture:** The real-time capture will be enabled.
 - **Card Reader Buzzer:** The audible warning of card reader will be enabled/disabled.
 - Alarm Output: The alarm output will be enabled/disabled for notification.
 - Access Control Point: The door status of open, close, remain open, and remain closed will be enabled.

Notes:

- The door status of open, close, remain open, and remain close cannot be triggered at the same time.
- The target door and the source door cannot be the same one.
- 3. Click **Save** button to save and take effect of the parameters.

Card Linkage

- 1. Click to select the linkage type as Card Linkage.
- 2. Input the card No. or select the card from the dropdown list.
- 3. Select the card reader from the table for triggering.
- 4. Set the linkage target, and switch the property from 💭 to 🌑 to enable this function.
 - Host Buzzer: The audible warning of controller will be enabled/disabled.
 - **Capture:** The real-time capture will be enabled.
 - **Card Reader Buzzer:** The audible warning of card reader will be enabled/disabled.
 - Alarm Output: The alarm output will be enabled/disabled for notification.
 - Access Control Point: The door status of open, close, remain open, and remain closed will be enabled.

5. Click **Save** button to save and take effect of the parameters.

7.10.4 Cross-Device Linkage

Purpose:

You can assign to trigger other access control device's action by setting up a rule when the access control event is triggered.

Click **Cross-Device Linkage** tab to enter the following interface.

Access Control Cross-Device Link	Access Control Cros	s-Device Linka	ge		+ Add	🗙 Delete	E Save
Search Event Linkage_Device Tamperi	Event Source	: Device Event		in v O (Card Linkage:		•
	Alarm Output	L 10.18.146.8 Name Alarm Output 1 Alarm Output 2 Name Door1	6 View of the second se	Close	Normal Open No Th	Remain Closed) Trigger
		Door2	No O Tri	No O Tri.	No O Ti	ri Not Tri 🔘	Trigger

Click Add button to add a new client linkage. You can select the event source as **Event Linkage** or Card Linkage.

Event Linkage

For the event linkage, the alarm event can be divided into four types: device event, alarm input, door event, and card reader event.

- 1. Click to select the linkage type as **Event Linkage**, select the access control device as event source, and select the event type from the dropdown list.
 - For Device Event, select the detailed event type from the dropdown list.
 - For Alarm Input, select the type as alarm or alarm recovery and select the alarm input name from the table.
 - For Door Event, select the detailed event type and select the door from the table.
 - For Card Reader Event, select the detailed event type and select the card reader from the table.
- 2. Set the linkage target, select the access control device from the dropdown list as the linkage target, and switch the property from \bigcirc to \bigcirc to enable this function.

- Alarm Output: The alarm output will be triggered for notification.
- Access Control Point: The door status of open, close, remain open, and remain close will be triggered. *Note:* The door status of open, close, remain open, and remain close cannot be triggered at the same time.
- 3. Click **Save** button to save parameters.

Card Linkage

Steps:

- 1. Click to select the linkage type as Card Linkage.
- 2. Select the card from the dropdown list and select the access control device as event source.
- 3. Select the card reader from the table for triggering.
- Set the linkage target, select the access control device from the dropdown list as the linkage target, and switch the property from
 to
 to
- 5. Click **Save** button to save parameters.

7.11 Door Status Management

Purpose:

The door status of the added access control device will be displayed in real time. You can check the door status and the linked event(s) of the selected door. You can control the status of the door and set the status duration of the doors as well.

7.11.1 Access Control Group Management

Purpose:

Before controlling the door status and setting the status duration, you are required to organize it into group for convenient management.

Perform the following steps to create the group for the access control device:

- 1. Click *main on the control panel to open the Device Management page.*
- 2. Click **Group** tab to enter the Group Management interface.

Resource	la 🕞	Access Contro	I Point of Gr	oup Access C	ontroller(1)			
Search	9	+ Import	🖸 Modify	🗙 Delete	🏶 Remote Config	guration	Filter	
💌 📥 CVR		Nickname		*		IP	Device Serial	No.
🔄 10.16.6.112		Door1_Access	Controller			10.16.6.111		
🛃 😂 10.18.146.86								
🕑 ᅼ 10.16.6.250								
🕑 🔄 10.18.146.81								
10.17.137.250								
🕑 🔄 10.16.6.111								
10.16.6.104								
🕑 ᅼ Door Station								
🖃 🔄 Access Controller								
Encoding Channel								
Alarm Input								
Zone								
Access Control								

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- 3. Perform the following steps to add the group.
 - 1) Click 🧔 to open the Add Group dialog box.
 - 2) Input a group name as you want.
 - Click OK to add the new group to the group list.
 You can also check the checkbox Create Group by Device Name to create the new group by the name of the selected device.

	Add Group	×
Group Name:		
Create Group by D	evice Name	
	ОК	Cancel

- 4. Perform the following steps to import the access control points to the group:
 - 1) Click **Import** on Group Management interface, and then click the **Access Control** tab to open the Import Access Control page.

Notes:

- You can also select **Alarm Input** tab and import the alarm inputs to group.
- For the Video Access Control Terminal, you can add the cameras as encoding channel to the group.
- 2) Select the names of the access control points in the list.
- 3) Select a group from the group list.
- 4) Click Import to import the selected access control points to the group.You can also click Import All to import all the access control points to a selected group.

Import

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5. After importing the access control points to the group, you can click <a>[, or double-click the group/access control point name to modify it.

7.11.2 Anti-control the Access Control Point (Door)

Purpose:

You can control the status for a single access control point (a door), including opening door, closing door, remaining open, and remaining closed.



Door Status Card Swiping Reco			0				in a tu
Access Control Group Search 10.16.6.85 10.16.6.222	Status Information	Status Duration	Open Door	Close Door 🛛 📲	Remain Open	Remain Closed	Capture
	Operating Record	Event Time Door	Group Door	Operation	n Operation Res	ult C	Capture
	3 20	17-01-18 20:2 10.16.6.2	22 Door1_10.16.0	6.222 Open Door	Operation com)	
	2 20	17-01-18 20:2 10.16.6.2	22 Door1_10.16.0	6.222 Door Remain	O Operation com	.	
	1 20	17-01-18 20:2 10.16.6.2	22 Door1_10.16.0	6.222 Open Door	Operation com	.	



- 1. Select an access control group on the left. For managing the access control group, refer to *Chapter 7.11.1 Access Control Group Management.*
- 2. The access control points of the selected access control group will be displayed on the right.

Click icon on the Status Information panel to select a door.

3. Click the following button listed on the **Status Information** panel to control the door.

Open Door : Click to open the door once.

Close Door : Click to close the door once.

Remain Open: Click to keep the door open.

Remain Closed: Click to keep the door closed.

Capture : Click to capture the picture manually.

4. You can view the anti-control operation result in the Operation Log panel.

Notes:

- If you select the status as **Remain Open/Remain Closed**, the door will keep open/closed until a new anti-control command being made.
- The **Capture** button is available when the device supports capture function. And it cannot be realized until the storage server is configured.
- If the door is in remain closed status, only super card can open the door or open door via the client software.

7.11.3 Status Duration Configuration

Purpose:

You can schedule weekly time periods for an access control point (door) to remain open or remain closed.

In the Door Status module, click Status Duration button to enter the Status Duration interface.

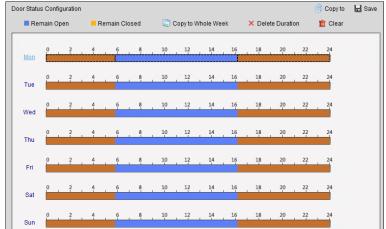
			Sta	atus Durati	on								,
Access Control List		Configuration ain Open	Remain	Closed	. C	Copy to W	/hole Week	×	Delete I	Duratior		📄 Copy to 🧰 Clear	P Save
· L 10.16.6.222	Mon	0 2	4 6	. 8	10	12	14 :	.6	18	20	22	24	
	Tue	0 2	4 6	. 8	10	12	14 :	.6	18	20	22	24	
	Wed	0 2	4 6	. 8	10	12	14 :	.6	18	20	22	24	
	Thu	0 2	4 6	8	10	12	14 :	.6	18	20	22	24	
	Fri	0 2	4 6	8	10	12	14 :	.6	18	20	22	24	
	Sat	0 2	4 6	8	10	12	14 :	.6	18	20	22	24	
	Sun	0 2	4 6	8	10	12	14 :	.6	18	20	22	24	

Steps:

- 1. Click to select a door from the access control device list on the left.
- 2. On the Door Status Configuration panel on the right, draw a schedule for the selected door.
 - Select a door status brush as <a>Remain Open or <a>Remain Closed.
 Remain Open: The door will keep open during the configured time period. The brush is marked as <a>Remain Open.

Remain Closed: The door will keep closed during the configured duration. The brush is marked as **marked**.

2) Click and drag on the timeline to draw a color bar on the schedule to set the duration.



- 3) When the cursor turns to X, you can move the selected time bar you just edited. You can also edit the displayed time point to set the accurate time period. When the cursor turns to X, you can lengthen or shorten the selected time bar.
- 3. Optionally, you can select the schedule time bar and click Copy to Whole Week to copy the

time bar settings to the other days in the week.

- 4. You can select the time bar and click **Delete Duration** to delete the time period. Or you can click **Clear** to clear all configured durations on the schedule.
- 5. Click **Save** to save the settings.
- 6. You can click **Copy to** button to copy the schedule to other doors.

7.11.4 Real-time Card Swiping Record

Click Card Swiping Record tab to enter the following interface.

rd No.	Person Name	Organization	Event Time	Door Position	Direction	Operation	Card Holder Information
							Person No.:
							Person Name:
							Gender:
							ID Type:
							ID No.:
							Organization:
							Phone No.:
							Address:
							Email:

The logs of card swiping records of all access control devices will display in real time. You can view the details of the card swiping event, including card No., person name, organization, event time, etc.

You can also click the event to view the card holder details, including person No., person name, organization, phone, contact address, etc.

7.11.5 Real-time Access Control Alarm

Purpose:

The logs of access control events will be displayed in real time, including device exception, door event, card reader event, and alarm input.

Click Access Control Alarm tab to enter the following interface.

Alarm Type	Alarm Time	Alarm Location	Alarm Content	Operatio	on
Remote: Disarm	2016-12-16 13:5	Access Controller	Remote: Disarm	2.	•
Remote: Arming	2016-12-16 13:5	Access Controller	Remote: Arming	2	•
Remote: Login	2016-12-16 13:5	Access Controller	Remote: Login	2	•
Remote: Disarm	2016-12-16 13:5	Access Controller	Remote: Disarm	2.	•
Remote: Logout	2016-12-16 13:5	Access Controller	Remote: Logout	2.	•
Remote: Login	2016-12-16 13:5	Access Controller	Remote: Login	2	•
Remote: Arming	2016-12-16 13:4	Access Controller	Remote: Arming	2 (•
Remote: Login	2016-12-16 13:4	Access Controller	Remote: Login	2.	
Remote: Disarm	2016-12-16 13:4	Access Controller	Remote: Disarm	2	•
Door Locked	2016-12-16 13:4	Door1	Door Locked	<u>R</u> (•
Unlock	2016-12-16 13:4	Door1	Unlock	<u>ନ</u> ୍ଦ୍ର (•
Remote: Arming	2016-12-16 13:4	Access Controller	Remote: Arming	2	•
Remote: Login	2016-12-16 13:4	Access Controller	Remote: Login		
Remote: Disarm	2016-12-16 13:4	Access Controller	Remote: Disarm	2	•

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Steps:

- All access control alarms will display in the list in real time. You can view the alarm type, alarm time, location, etc.
- 2. Click $\stackrel{\text{le}}{=}$ to view the alarm on E-map.
- 3. You can click or known the live view or the captured picture of the triggered camera when the alarm is trigged.

Note: For setting the triggered camera, refer to *Chapter 7.10.1 Access Control Event Linkage*.

4. Click Subscribe to select the alarm that the client can receive when the alarm is triggered.

Subscribe ×
Device Exception Door Event Card Reader Event Alarm Input
All
Device Tampering Alarm
✓ No Memory Alarm
✓ Network Disconnected
✓ Network Recovered
✓ Low Battery Voltage
✓ Low Battery Voltage Recovered
AC Power Off
OK Cancel

- 1) Check the checkbox(es) to select the alarm(s), including device exception alarm, door event alarm, card reader alarm, and alarm input.
- 2) Click **OK** to save the settings.

7.12 Arming Control

Purpose:

You can arm or disarm the device. After arming the device , the client can receive the alarm information from the device.

- 1. Click **Tool->Device Arming Control** to pop up the Device Arming Control window.
- 2. Arm the device by checking the corresponding checkbox.
 - Then the alarm information will be auto uploaded to the client software when alarm occurs.

🖌 All	Arming Status
✓ 10.16.6.250	
✓ 10.16.6.171	8
✓ 10.18.146.81	
10.17.137.250	B
✓ 10.16.6.111	B

Appendix A Sound Prompt and Indicator

After the card reader is powered on, LED status indicator will turn blue and blink for 1 time. Then it will turn red and blink for 3 times. At last the buzzer will send out a beep sound indicating the starting up process is completed.

During using the card reader, it will send out different sounds prompt and the LED indicator on it have different statuses. You can refer to tables below for detailed information.

Table 7-1 Description of Prompt Sound				
Sound Prompt	Description			
One beep	RS-485 protocol: Pressing keys prompt; Swiping card prompt; Time out prompt for pressing keys or swiping card. Wiegand protocol: Pressing keys prompt; Swiping card prompt.			
Two rapid beeps	The operation of pressing keys or swiping card is valid.			
Three slow beeps	The operation of pressing keys or swiping card is invalid.			
Rapidly continuous	Alarm of tamper-proof.			
beeps	Alarm of tamper-proof.			
Slowly continuous beeps	The card reader is unencrypted.			

Table 7-1	. Description	of Promo	t Sound

Table 7-2 Description of LED Indicator				
LED Indicator Status	Description			
Green and blinking	Card reader is working normally.			
Solid green	The operation of pressing keys or swiping card is valid.			
Solid red	The operation of pressing keys or swiping card is invalid.			
Red and blinking	For RS-485 protocol: Registering failed or card reader is offline. Failed to get key files of PSAM card; Failed to detect the PSAM card.			
Red and Keeping	Available for reading file mode of CPU card: PSAM is not			
rapidly blinking	inserted or undetected.			

Table 7 2 D

Appendix B Custom Wiegand Rule

Take Wiegand 44 as an example, the setting values in the Custom Wiegand tab are as follows:

Custom Wiegand Name:	Wiega	nd 44					
Total Length	44						
Transformation Rule (Decimal Digit)	byFormatRule[4]=[1][4][0][0]						
Parity Mode	XOR Pa	arity					
Odd Parity Start Bit		Length					
Even Parity Start Bit		Length					
XOR Parity Start Bit	0	Length Group	per	4	Total Length	40	
Card ID Start Bit	0	Length		32	Decimal Digit		10
Site Code Start Bit		Length			Decimal Digit		
OEM Start Bit		Length			Decimal Digit		
Manufacturer Code Start Bit	32	Length		8	Decimal Digit		3

Wiegand Data = Valid Data + Parity Data

Total Length: Wiegand data length.

Transportation Rule: 4 bytes. Display the combination types of valid data. The example displays the combination of Card ID and Manufacturer Code. The valid data can be single rule, or combination of multiple rules.

Parity Mode: Valid parity for wiegand data. You can select either odd parity or even parity.

Odd Parity Start Bit, and Length: If you select Odd Parity, these items are available. If the odd parity start bit is 1, and the length is 12, then the system will start odd parity calculation from bit 1. It will calculate 12 bits. The result will be in bit 0. (Bit 0 is the first bit.)

Even Parity Start Bit, and Length: If you select Even Parity, these items are available. If the even parity start bit is 12, and the length is 12, then the system will start even parity calculation from bit 12. It will calculate 12 bits. The result will be in the last bit.

XOR Parity Start Bit, Length per Group, and Total Length: If you select XOR Parity, these items are available. Depending on the table displayed above, the start bit is 0, the length per group is 4, and the total length is 40. It means that the system will calculate from bit 0, calculate every 4 bit, and calculate 40 bits in total (10 groups in total). The result will be in the last 4 bits. (The result length is the same as the length per group.)

Card ID Start Bit, Length, and Decimal Digit: If you use the transformation rule, these items are available. Depending on the table displayed above, the card ID start bit is 0, the length is 32, and the decimal digit is 10. It represents that from bit 0, there are 32 bits represent the card ID. (The length here is calculated by bit.) And the decimal digit length is 10 bits.

Site Code Start Bit, Length, and Decimal Digit: If you use the transformation rule, these items are available. For detailed information, see the explanation of the card ID.

OEM Start Bit, Length, and Decimal Digit: If you use the transformation rule, these items are available. For detailed information, see the explanation of the card ID.

Manufacturer Code Start Bit, Length, and Decimal Digit: If you use the transformation rule, these items are available. Depending on the table displayed above, the manufacturer code start bit is 32, length is 8, and decimal digit is 3. It represents that from bit 32, there are 8 bits are manufacturer code. (The length here is calculated by bit.) And the decimal length is 3.

02000001080620

