HUNDURE

HAMS-20

Software Manual

Version 2.3.23

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Revision History

Version	Description
V2.0	First Edition
V2.01	Modify 12-2 Schedule Setup and 6-1-9 Mifare write back and add hardware RAC-930/970 Series.
V2.1	Modify typesetting
V2.1.1	Add Elevator HDE-200/200N
V2.1.2	Modify 5-1-4 Parameter 2
V2.2	Modify typesetting
V2.2.1	Modify 12-1 &12-2-2 Backup Note.
V2.2.2	Add Appendix C : Troubleshooting when install Window Server 2012 Add HTA-640
V2.3	Modify typesetting
V2.3.1	Modify 8-9 Note
V2.3.2	Modify 5-1-4 and 5-3-2 Reader Type
V2.3.3	Modify 5-5-1 Group Authorization Setting picture. Add RAC-820PMFV Controller type.
V2.3.4	Modify 8-9Duty Attendance Report & 11-2-5 Schedule

	Modify 12-2 Dump Data –HAMS Modify 8-4-1Time Shift Setting Add 5-10 Biometric Reader Setting
V2.3.5	Add HTA-500 Series.(Add Chapter8-10, 8-1-19~ 8-1-22)
V2.3.6	HAMS-10 Add RAC-510 Series (Add Chapter 5-1-7~5-1-9) HAMS-19 Add RAC-820PMF
V2.3.7	Modify 5-10 Biometric Reader Setting Add HTA-502PEF-N
V2.3.8	Add RAC-940/960/970 PMD Add 5-10 Mifare setting
V2.3.9	Add the models RAC-970PMDF，HTA-500PMF-N、HTA-502PMF-N、HTA-502PMF-V、HTA-502PEF-NB。 Add Parameters- Add Wiegand Settings for RAC-2000WS，Alarm Settings for RAC-4600/4600N; RAC-2000WSN F/W V1.06 and later version have the parameter settings to set the LED's / Buzzer's High / Low level control. Moreover, Add "fixed holidays" and password for time schedules; Modify scheduling time synchronization and add time zones
V2.3.9.1	Modify【Roll Shutter Mode】: For RAC-960PE/PM/PMD,RAC-970PE/PM/PMD only.
V2.3.10	Add the models HTA-500PEF-N、HTA-500PEF-V、HTA-502PEF-N HTA-502PMF-NB、HTA-502PEF-V、HTA-502PEF-Y、HTA-502PMF-Y.
V2.3.11	Add the models RAC-810PMF、RAC-A10PM、HAC-100
V2.3.12	Modify 4-1 and 5-5 The Biometric Reader add PXR-96 Fingerprint reader. The [Verify Device] is reserved.
V2.3.13	Modify 11-1 Database Operation & 11-2-2 Backup Add the models HAC-101
V2.3.14	Add HDE-120, applying for cell phone APP to open the door and HAMS-FACE external program.
V2.3.15	Add HAC-510 and modify audio prompt only for HTA-852V1.X
V2.3.16	HAMS-19 removed the function of starting the hardware verification and supported RAC-960PXF dual-card authorization function.
V2.3.17	Add HAC-512 series/HAC-710 series/RAC-971 series
V2.3.18	Add the models RAC-850PMFA
V2.3.19	Add HAC-A12 Series and HTA-871 Series

V2.3.20	Add RAC-971QE/QM(Parameters are the same as RAC-971PE/PM) / HDE-970 Series
V2.3.21	Add Emergency Card, Visitor Management, and HunFaceEY-Z2 Facial Recognition Terminal
V2.3.22	Delete the Database restore. / Modify Guest Access Operation Add HAC-971 Series / HAC-C2 Series
V2.3.22.1	Change the icon to BLE
V2.3.23	Modify Guest Access Operation

Quickly Guide

- First time to set access authorization. Procedure is as follows:

  HAMS-10

  1. Add new users
     - Basic→Cardholder Info Setting(Refer to Chapter 4-1)
  2. Create groups and assign authority
     - Access Control→ HAMS-10→Auth Setting→Group Auth Setting(Refer to Chapter 5-2-1)
  3. Download
     - Access Control→ HAMS-10→Auth Setting→Download(Refer to 5-2-3)

  HAMS-19

  1. Add new users
     - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
  2. Set time zone and time schedule
     - Access Control→HAMS-19→Access Control Time Schedule Setting(Refer to Chapter 5-4-1)
  3. Create groups and assign authority
     - Access Control→ HAMS-19→Auth Setting→ Group Auth Setting(Refer to Chapter 5-5-1)
  4. Download
     - Access Control→ HAMS-19→Auth Setting→Download(Refer to Chapter 5-5-3)

  HAMS-20

  1. Add users
     - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
  2. Set time zone and time schedule
     - Access Control→ HAMS-20→Access Control Time Schedule Setting(Refer to Chapter 5-7-1/5-7-2)
  3. Create groups and assign authority
     - Access Control→ HAMS-20→Auth Setting→Group Auth Setting(Refer to Chapter 5-8-1)
  4. Download
     - Access Control→ HAMS-20→Auth Setting→Download (Refer to Chapter 5-8-3)

- When there is a new user, how to set user access authority?

  HAMS-10

  1. Add user
     - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
  2. Authorization
     - Access Control→ HAMS-10→Auth Setting→Group Auth Setting(Refer to Chapter 5-2-1)
     - In the Group Auth Setting, select groups and click Cardholder, tick the check box of users and click OK, authority setting is completed.
  3. Download
     - Access Control→ HAMS-10→Auth Setting→Download(Refer to Chapter 5-2-3)
     - Select download by By Group Auth or By Device → Modification → Start Download.

  HAMS-19

  1. Add user
     - Add user Basic→Cardholder Info Setting (Refer to Chapter 4-1)
  2. Authorization
     - Access Control→ HAMS-19→Auth Setting→Group Auth Setting(Refer to Chapter 5-5-1)
     - In the Group Auth Setting, select groups and click Cardholder, tick the check box of users and click OK, authority setting is completed.
  3. Download
     - Access Control→ HAMS-19→Auth Setting→Download(Refer to Chapter 5-5-3)
     - Select download by By Group Auth or By Device → Modification → Start Download.

  HAMS-20

  1. Add user
     - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
  2. Authorization
     - Access Control→ HAMS-20→Auth Setting→Group Auth Setting(Refer to Chapter 5-8-1)
     - In the Group Auth Setting, select groups and click Cardholder, tick the check box of users and click OK, authority setting is completed.

3. Download
   - Access Control→ HAMS-20→Auth Setting→Download(Refer to Chapter 5-8-3)
   - Select download by By Group Auth or By Device → Modification → Start Download.

- When user leave, how to remove his access authority?

HAMS-10

1. Remove user authority
   - Access Control→ HAMS-10→Auth Setting→Group Auth Setting(Refer to Chapter 5-2-1)
   - In the Group Auth Setting, select group and click Cardholder, un-tick the check box of user and click OK, remove is completed.
2. Download
   - Access Control→ HAMS-10→Auth Setting→Download(Refer to Chapter 5-2-3)
   - Select download by By Group Auth or By Device → Modification → Start Download.
3. Delete the user from cardholder list
   - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
   - Search the user by Name, Card No, Phone and Emp No. And click delete.

HAMS-19

1. Remove user authority
   - Access Control→ HAMS-19→Auth Setting→Group Auth Setting(Refer to Chapter 5-5-1)
   - In the Group Auth Setting, select group and click Cardholder, un-tick the check box of user and click OK, remove is completed.
2. Download
   - Access Control→ HAMS-19→Auth Setting→Download(Refer to Chapter 5-5-3)
   - Select download by By Group Auth or By Device → Modification → Start Download.
3. Delete the user from cardholder list
   - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
   - Search the user by Name, Card No, Phone and Emp No. And click delete.

HAMS-20

1. Remove user authority
   - Access Control→ HAMS-20→Auth Setting→Group Auth Setting(Refer to Chapter 5-8-1)
   - In the Group Auth Setting, select group and click Cardholder, un-tick the check box of user and click OK, remove is completed.
2. Download
   - Access Control→ HAMS-20→Auth Setting→Download(Refer to Chapter 5-8-3)
   - Select download by By Group Auth or By Device → Modification → Start Download.
3. Delete the user from cardholder list
   - Basic→Cardholder Info Setting (Refer to Chapter 4-1)
   - Search the user by Name, Card No, Phone and Emp No. And click delete.

- How to set export format

1. Export format
   - System→Schedule→ select “Export Setup” (Refer to Chapter 11-2-1)
   - In this page, you may select the fields.

     Example: Request export report format as :

     “2009/09/09,13:55:26,0001535800,0000000002,00”

     1. Select User-Defined and input [”], then click [NEW].
     2. Select Swiped Date, and then click [NEW].
     3. Select User-Defined and input [,], then click [NEW].
     4. Select Swiped Time, and then click [NEW].
     5. Select User-Defined and input [,], then click [NEW].
     6. Select Card No., and then click [NEW].
     7. Select User-Defined and input [,], then click [NEW].
     8. Select Device ID, and then click [NEW].
     9. Select User-Defined and input [,], then click [NEW].
     10. Select Shift No, and then click [NEW].
     11. Select User-Defined and input [”], then click [NEW].

HAMS-10

1. How to close reader numerical and function keys.
   - Access Control→HAMS-10→ Access Control Hardware Setting→ Parameter 2 →Keypad / Function key (Open or Close)

HAMS-19

1. How to disable/enable reader numerical and function keys.
   - Access Control →HAMS-19→ Access Control Hardware Setting → select the deice→ Parameter 1 → Keypad Setup (Un-tick the check box to disable keypads function)

Chapter 1：About HAMS-20

HAMS-20 is modular design software with a single platform and a centralized database intended for Access Control, Time & Attendance, Elevator and Parking Management System. The integrated database design gathers different devices together and avoids duplicate data and inconveniency in data management. HAMS-20 support TCP/IP and COM port communication and provides English, Traditional and Simplified Chinese. To support localized language, the software comes with a language translation function for clients who wish to translate the software to their own language.

Chapter 2：HAMS-20 Overview and Features

Modular design software, suited for different application.

- Modular design software integrates access control, time Attendance, elevator management and parking control in a unified platform. Provide wide expansion for current and future operation.
- Multi-function application, provide cheaper but complete program.

Object-Oriented Programming, expedites client software development time

- Programmed in Visual Studio .NET C#, object-oriented program design for flexible software customization
- Capable of meeting different user requirements
- Special modular design, supports 3rd party integration. Access database, quick and easy installation; supports users in developing different database.

Multi-language support

- Use XML as a multi language switching data format to provide a customized development and design tool
- Provide multi-language tool, shorten compose time
- Provide flexible wording which base on different countries' demands.

Wide selections of communication interface and parameter setting

- Support communication via RS-232, USB or TCP/IP.
- Synchronization function and parameter setting.
- Anti-pass back setting.
- Conditional unlock door function.
- Able to set retrieve code length and index
- Reader tamper proof alarm
- Maximum attempts to trigger re-swipe card alarm function supported; System ceases operation and enters security mode upon reaching max failed access attempts

Access Control Management System

- Cardholder information management, with photo capture and query.
- Cardholder authorization setting allows users to easily set access authorization by

door group.

- User-defined card number, access authorization and card validity.
- Anti-pass back setting.
- Holiday setting.
- Support several time schedule and holiday groups.
- Download all or download modified data for a more efficient data transmission.
- Events monitor and alarm event report.
- Access records query and report generation.

Elevator Management

- Maximum attempts to trigger re-swipe card alarm function supported; System ceases operation and enters security mode upon reaching max failed access attempts.
- Ignores invalid card swipes.
- Saves access authorization within Mifare card thereby supporting unlimited cardholders.
- Controls up to 160 floors per elevator.(HDE-200/200N)
- Provide 128 time schedules per elevator.
- Configurable accessible floor and time.
- Elevator access records query and report generation.

Parking Management

- Full control of parking barrier to ensure smooth traffic flow on entry and exit.
- Anti-pass back setting, prevents multiple entry using a single card
- Diversified time schedules for parking control
- Car access records query and report generation

Time & Attendance Management

- Support all RAC-2000 series with time attendance function.
- Flexible management of employee's records.
- Friendly operation and quick setup of shift schedules
- User-defined work hours, work schedules, work shifts etc.
- Export function supported for immediate calculation of employee's time attendance records.
- Employee's time & attendance query and report generation

Patrol Management

- Support all RAC-2000 series with patrol function.
- Patrol schedule and routes setting
- Patrol Duty Status Setting.
- Checkpoint events query and report generation

Chapter 3：System Requirement

Software Develop Tool

- Visual Studio 2005 C#。
- Windows Application。

Operating System

- Windows XP Professional。
- Windows 2003 Server。
- Windows 2008 Server(32bit)。
- Windows 7 Home Premium(32bit/64bit)
- Windows 7 Professional(32bit/64bit)。
- Provides English, Traditional and Simplified Chinese.

Database

- Access。
- Microsoft SQL Server 2000。(Option)
- Microsoft SQL Server 2005。(Option)

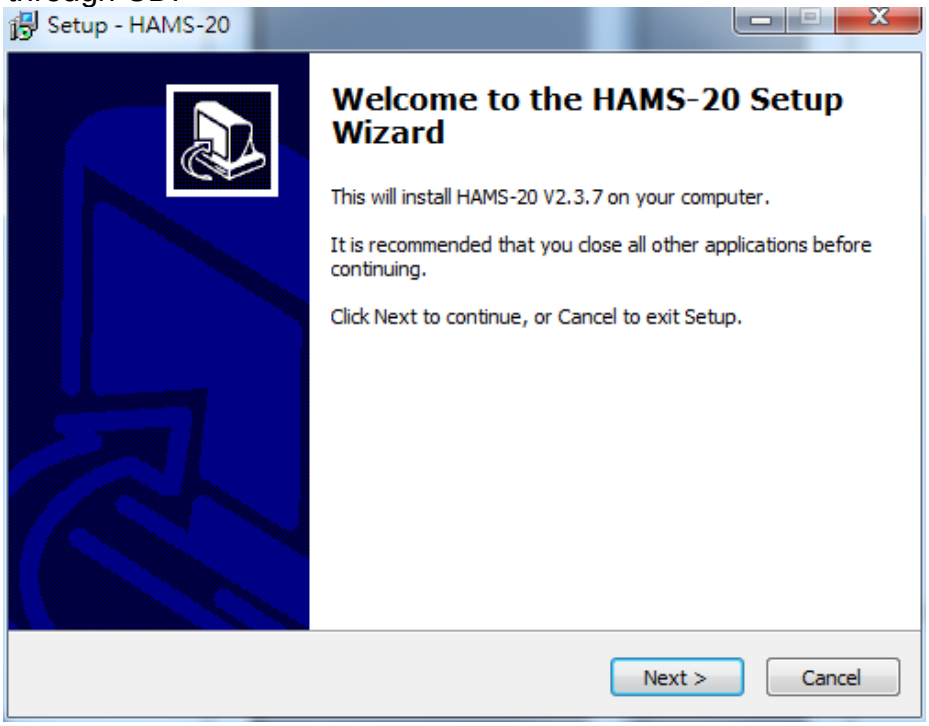
Hardware Requirement

- Processor：Dual Core Processor and above.
- Memory：2G memory and above.
- Hard Drive：320GB HDD and above.
- Monitor：1024 x 768 at least.
- At least a set of com port.
- Built-in 10/100 RJ45 TCP/IP communication.
-

Chapter 4：Installation

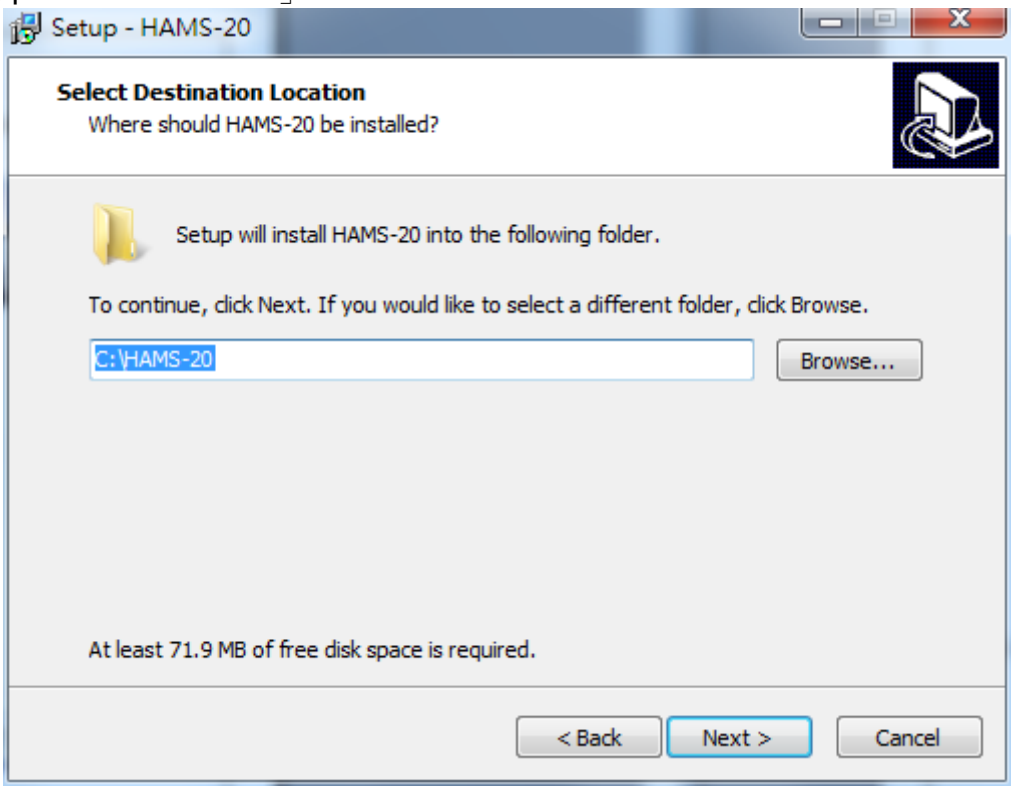
HAMS-20 Installation Procedure：

1. Put the CD enclosed in the package in CD ROM drive. The system will check if the PC had installed .Net Framework2.0. If PC does not have it, system will visit Windows website to upgrade the system. User can also install .Net Framework2.0 manually through CD.

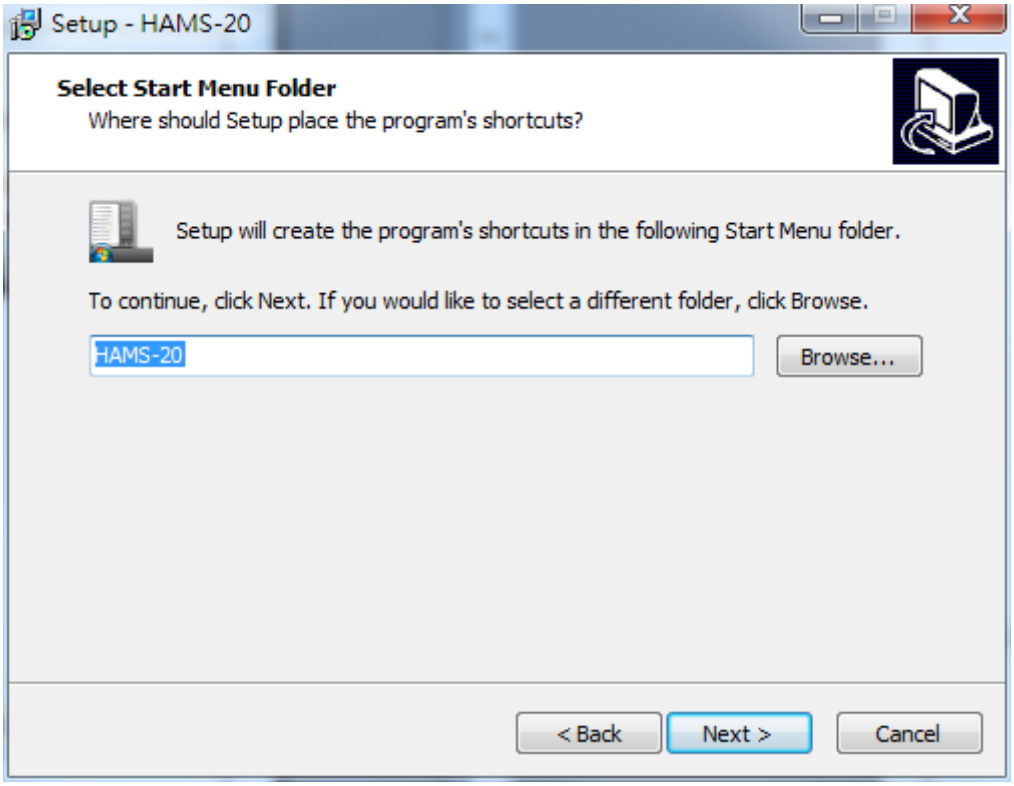


2. Select 「I accept the agreement」then click「Next」.

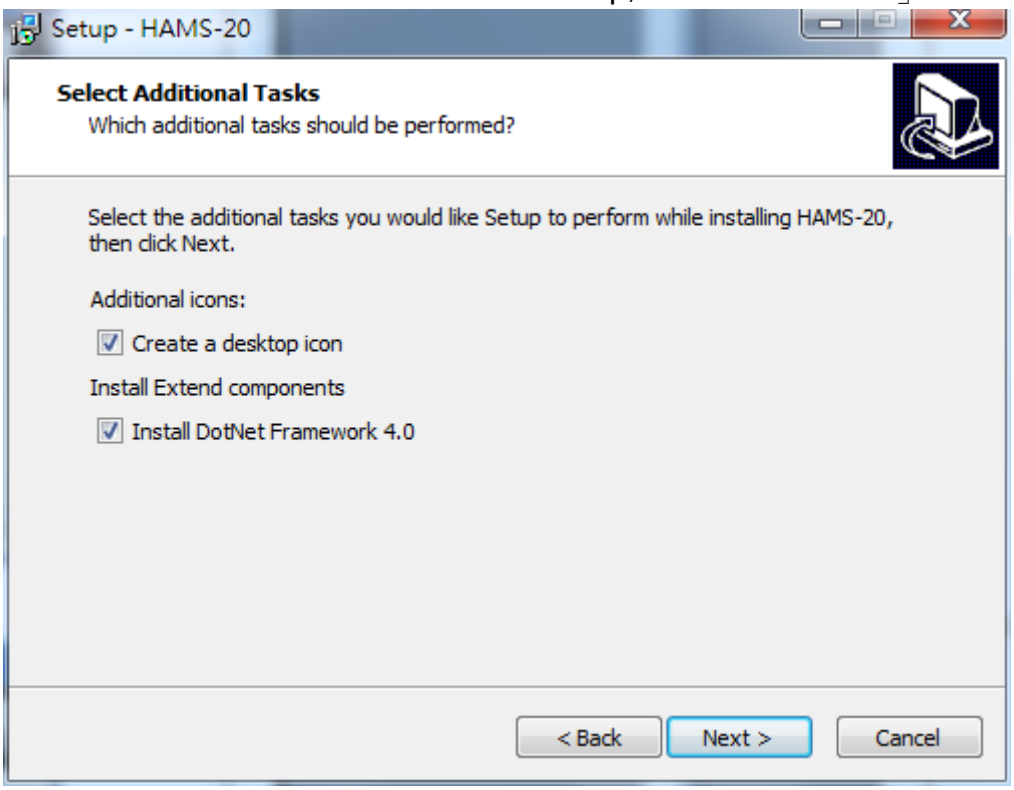
3. Please select folder path. You can click browse to select path which you want to put. After that, please click「Next」。



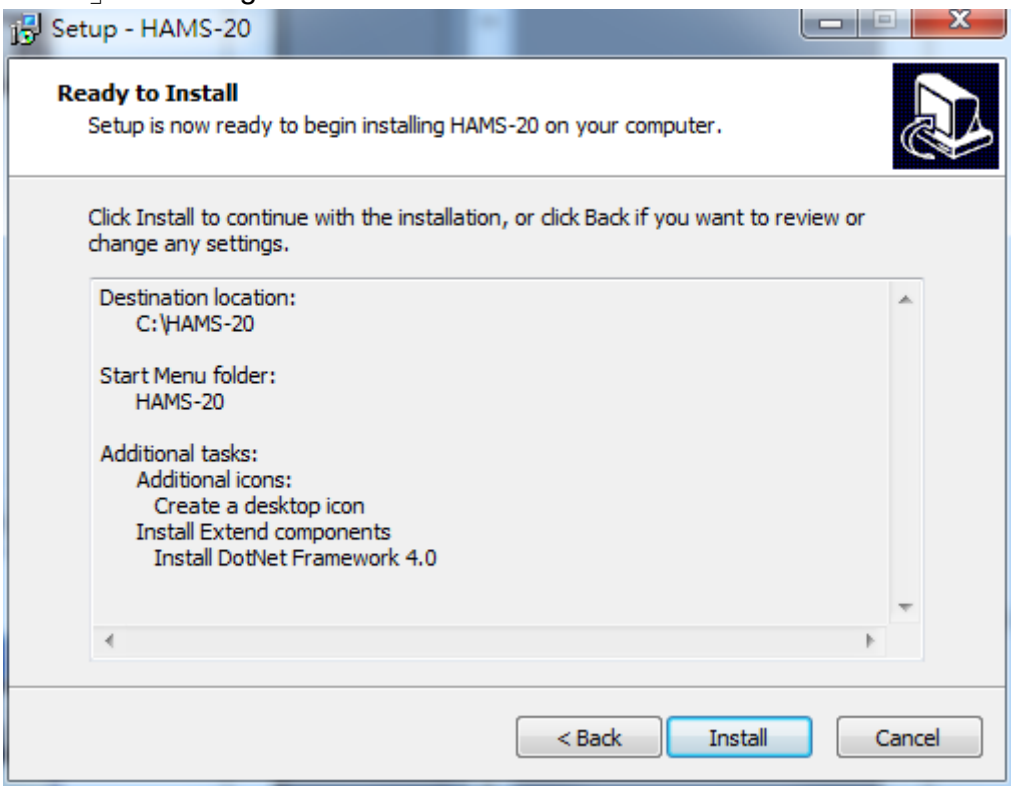
4. Input shortcut name in start menu folder, then click「Next」。

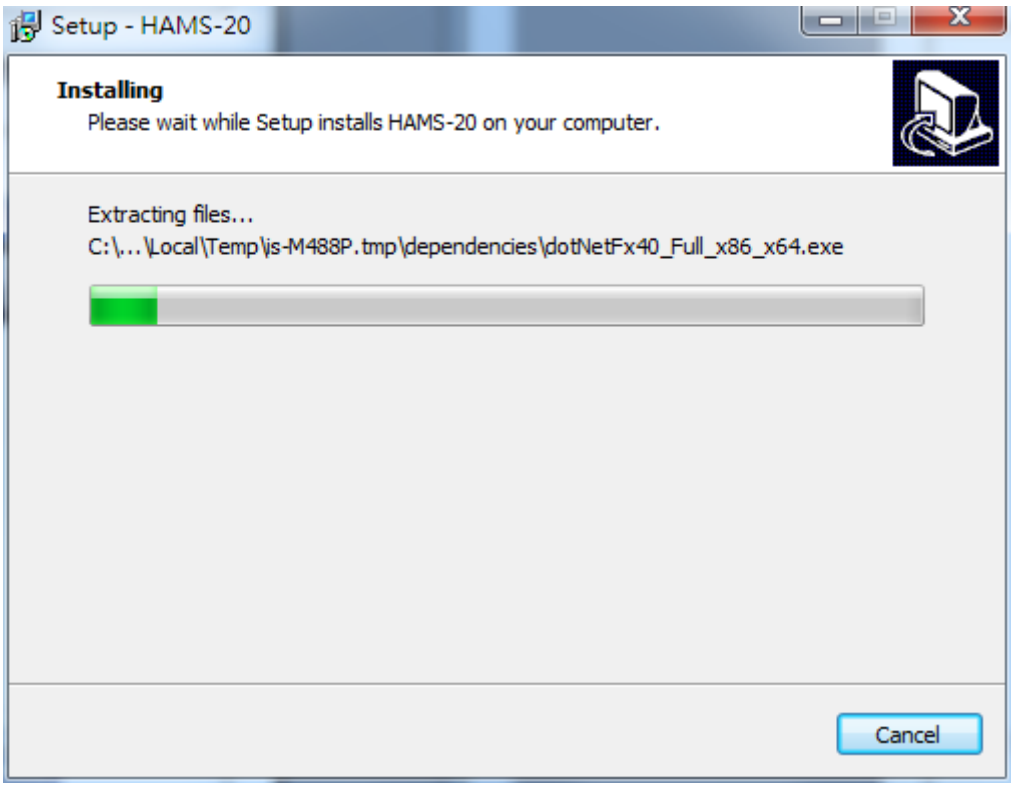


5. Tick the check box to create an icon on the desktop, then click 「Next」.

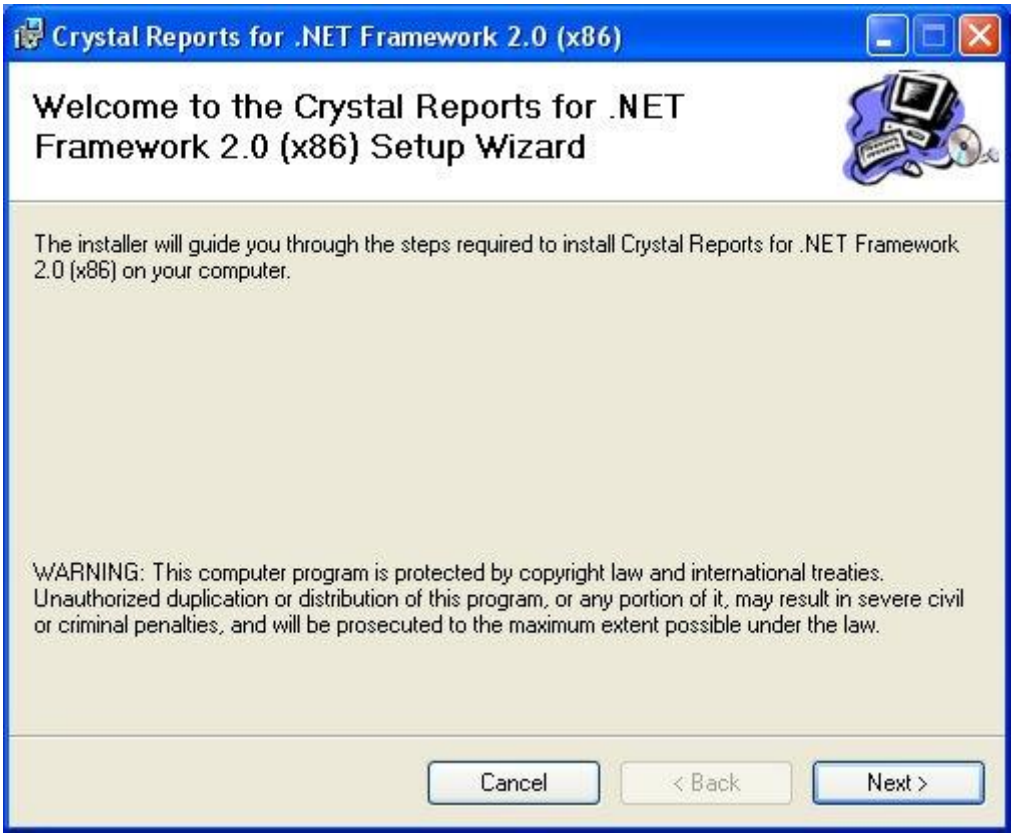


6. Click「Install」to starting the installation of HAMS-20.

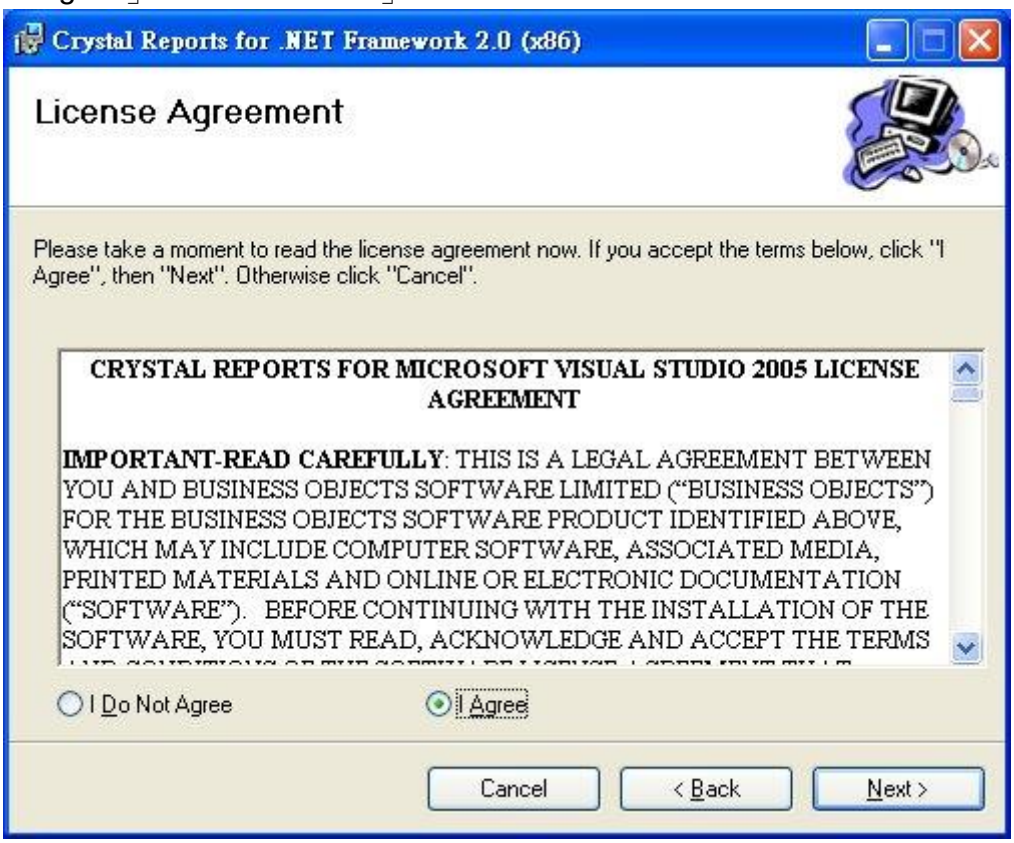




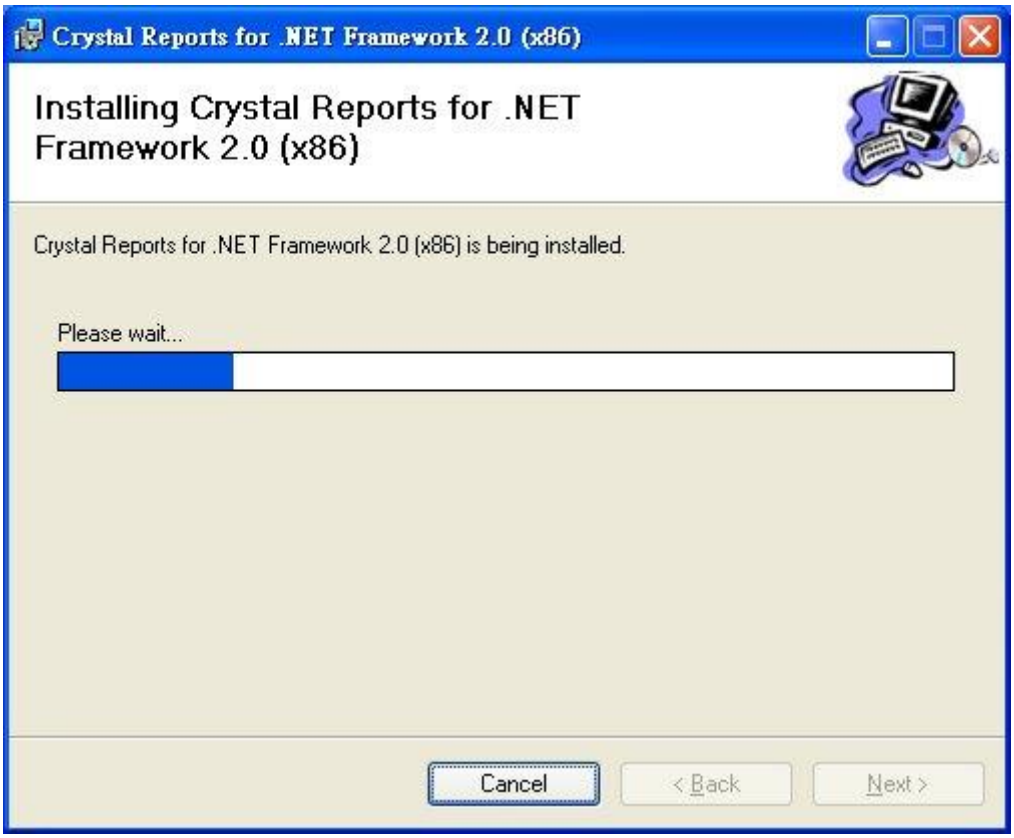
7. Click「Next」to install Crystal Report for .Net Framework2.0



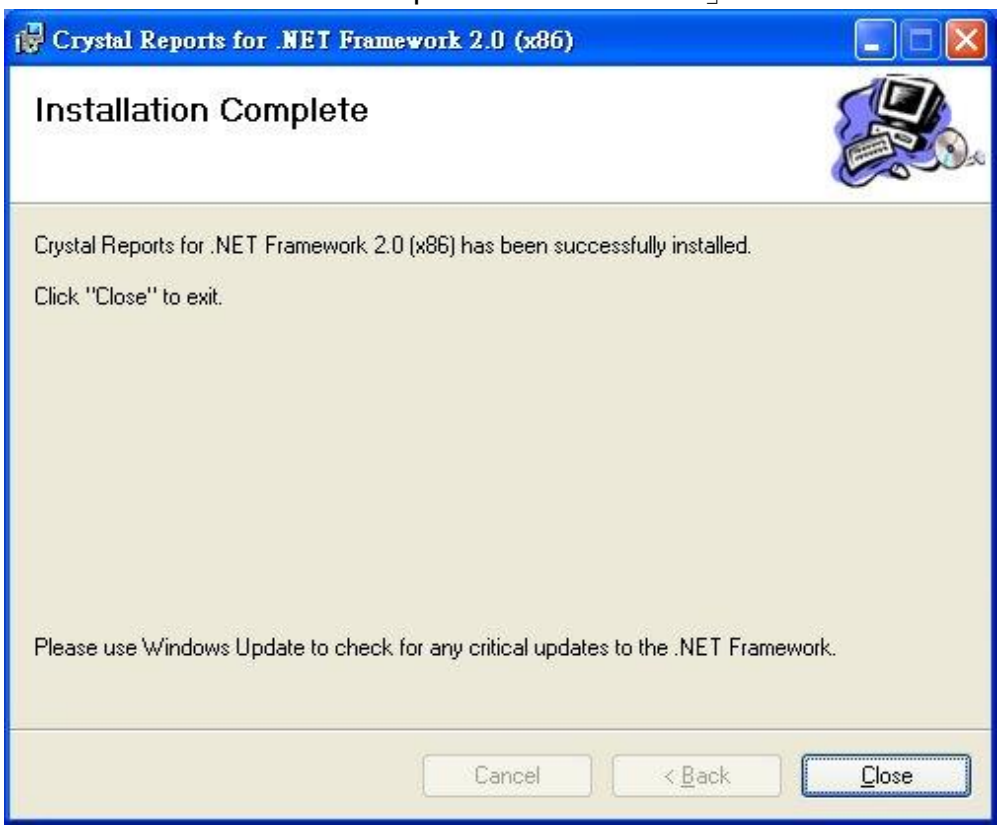
8. Select「I Agree」and click「Next」.



9. Staring install .Net Framework2.0.

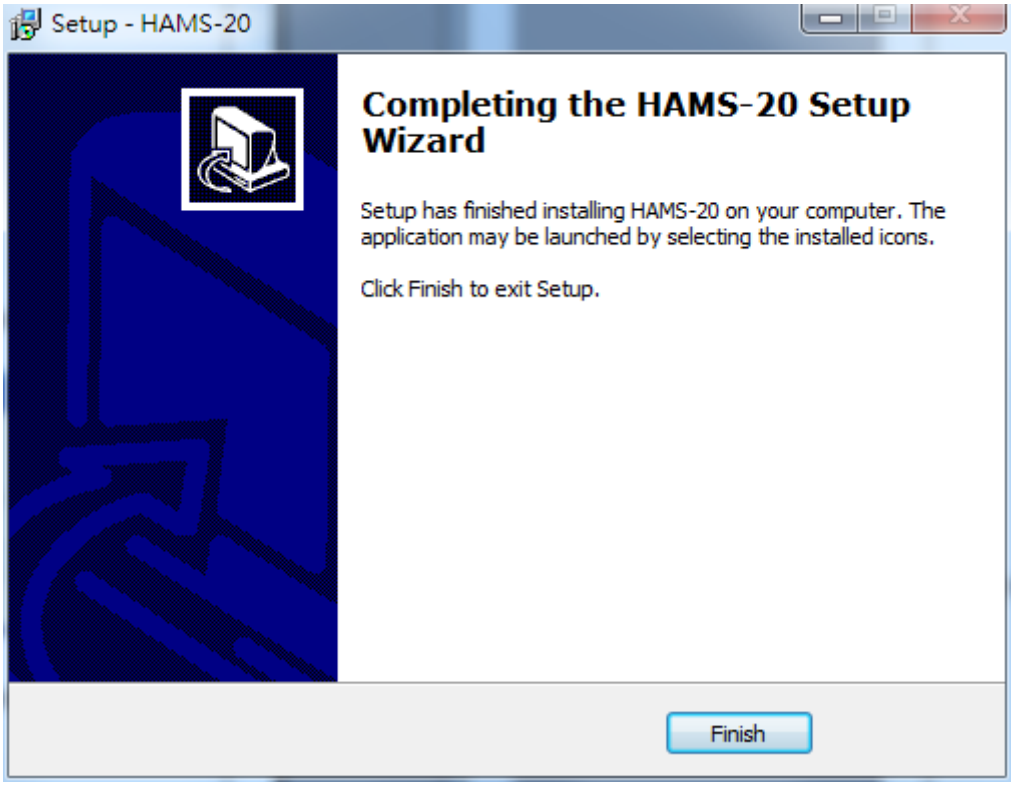


10. .Net Framework2.0 installation completed. Click「Close」.



11. Please select system data language (Current provides English, Traditional and Simplified Chinese). Click 「OK」, the installation completed.

12. HAMS-20 installation completed. Click「Finish」.



Chapter 5：HAMS-20 Start-up

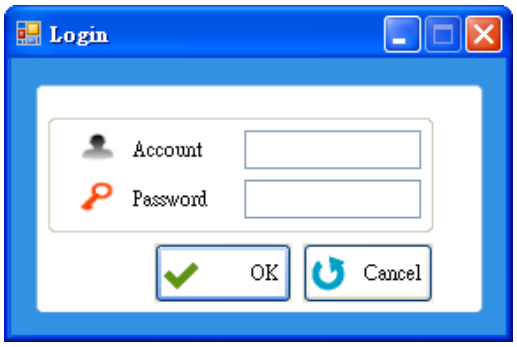
1. Login HAMS-20

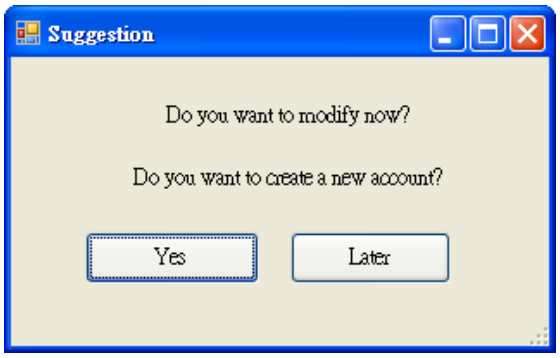
There are two ways to execute the program.

- Double click HAMS-20 shortcut icon on desktop.

- Click Start→Programs→HAMS→HAMS-20

Default account is ADMIN and password is ADMIN. Click OK. A screen will pop out and ask if you want to create a new account.

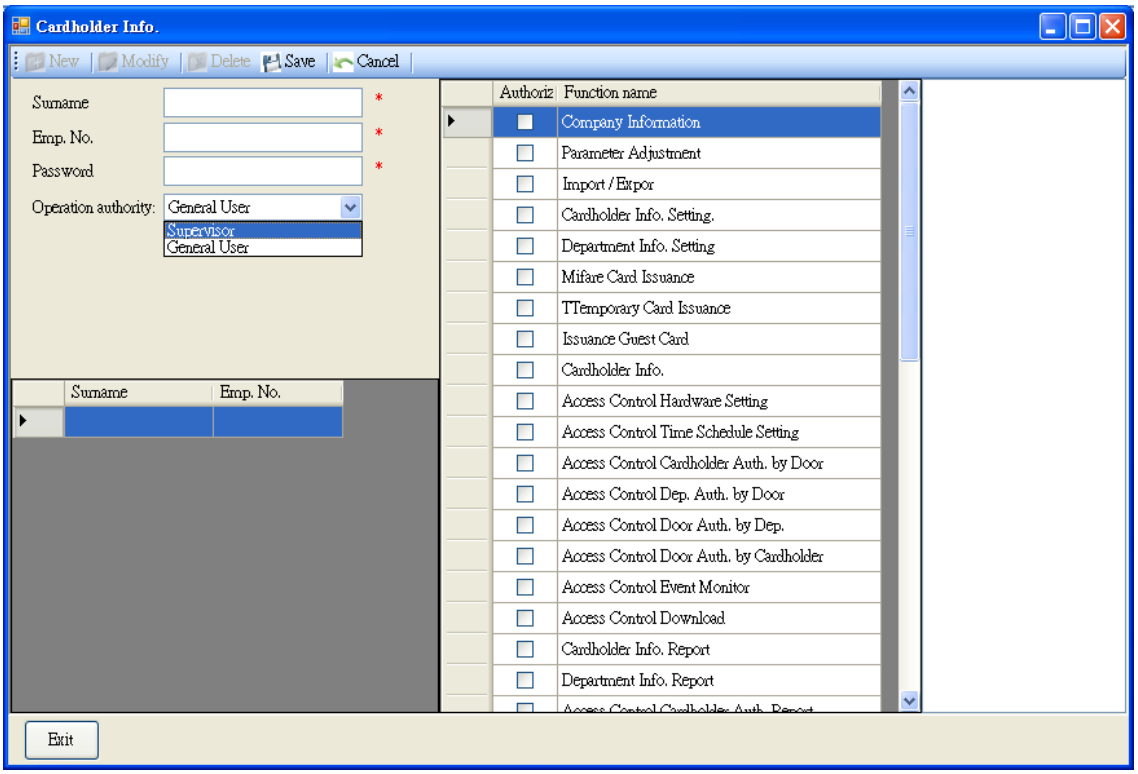




We recommend to click 「Yes」. Then system will proceed to adding workspace screen.

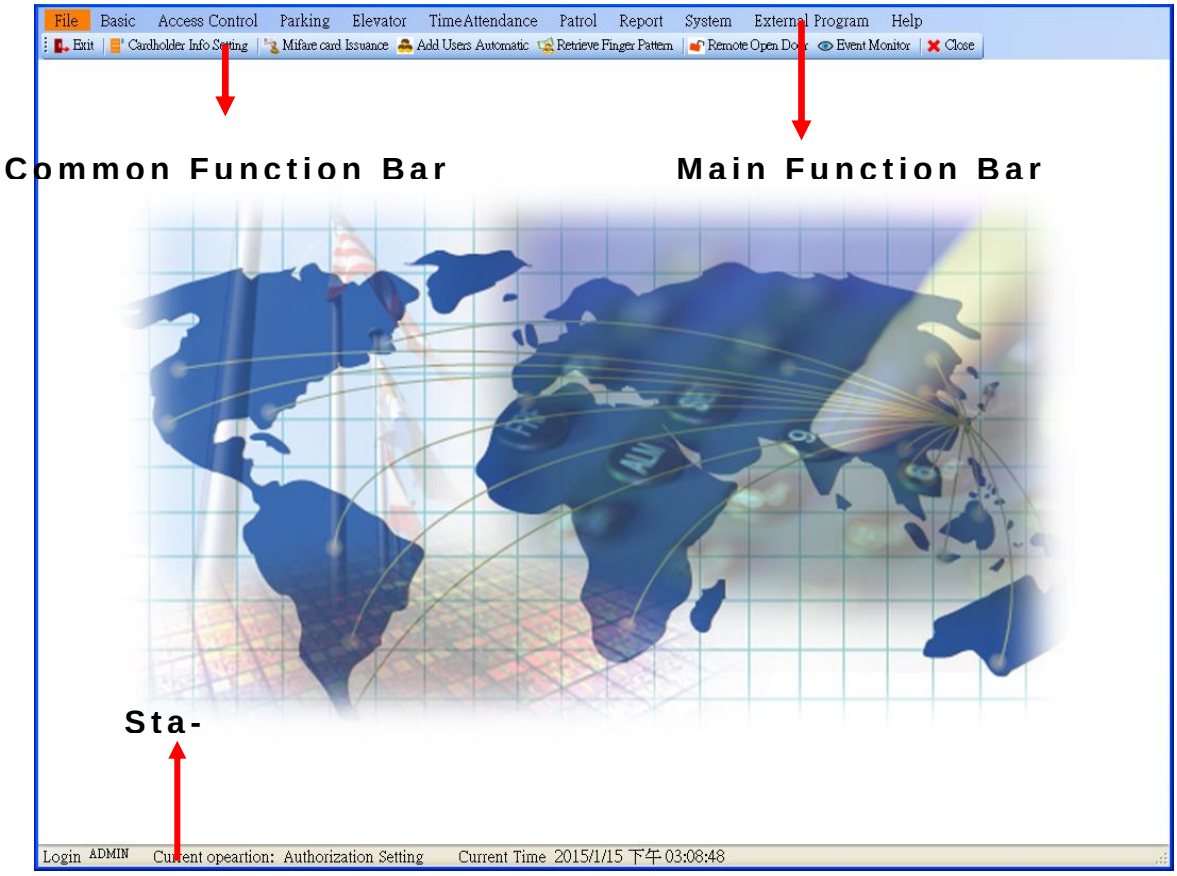
Steps：

1. Click「New」
2. Input new supervisor name, account and password.
3. When operation authority is supervisor, all the check boxes will be ticked and original HAMS-20 account ADMIN and password ADMIN will lose efficacy automatically. If general user is selected, users need to tick the programs in which the particular user has authorization to execute.
4. Click「Save」
5. Click 「Exit」and the program will return to the login screen.
6. Enter the new account name and password.


Cardholder Info.
New
Modify
Delete
Save
Cancel
Surname
Emp. No.
Password
Operation authority:
General User
Supervisor
General User
Surname
Emp. No.
Authoriz
Function name
Company Information
Parameter Adjustment
Import / Expor
Cardholder Info. Setting.
Department Info. Setting
Mifare Card Issuance
TTemporary Card Issuance
Issuance Guest Card
Cardholder Info.
Access Control Hardware Setting
Access Control Time Schedule Setting
Access Control Cardholder Auth. by Door
Access Control Dep. Auth. by Door
Access Control Door Auth. by Dep.
Access Control Door Auth. by Cardholder
Access Control Event Monitor
Access Control Download
Cardholder Info. Report
Department Info. Report
Exit

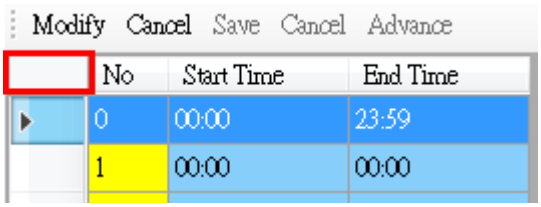
2. System Workspace Description

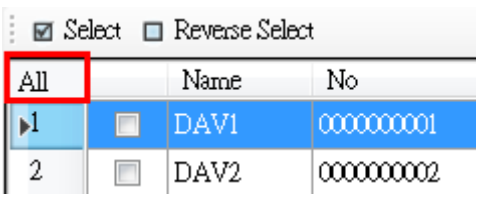
There are three parts: Main Function Bar, Common Function Bar and Status. When using sub-item of main function bar, the icon will show different color to highlight current work-space, allowing the user to easily know which sub-item he is browsing.

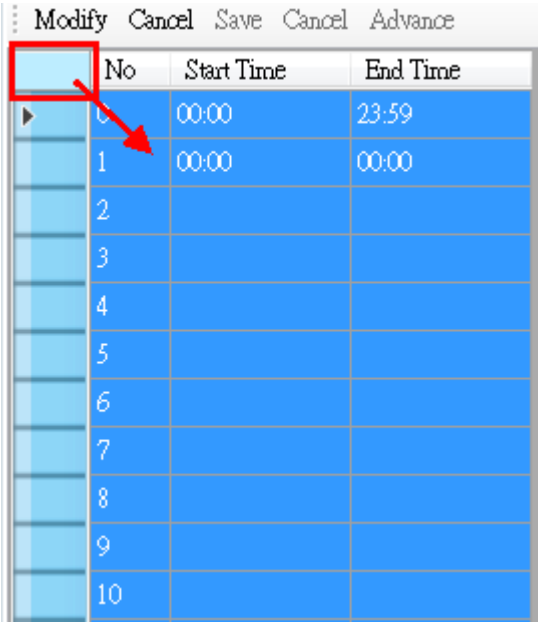


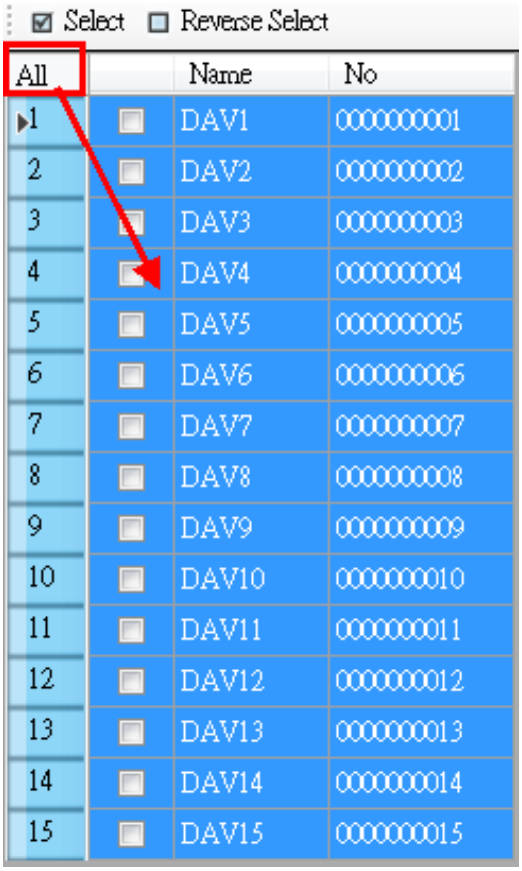
Tips：

- Change background：Point at background and press right key of mouse, and then appoint path of JPG or BMP file.
- Select all：You can click the mouse in the left upper corner of sheet, all are becoming blue as well. It is select all.






Modify
Cancel
Save
Cancel
Advance
No
Start Time
End Time
0
00:00
23:59
1
00:00
00:00
2
3
4
5
6
7
8
9
10


Select
Reverse Select
All
Name
No
1
DAV1
0000000001
2
DAV2
0000000002
3
DAV3
0000000003
4
DAV4
0000000004
5
DAV5
0000000005
6
DAV6
0000000006
7
DAV7
0000000007
8
DAV8
0000000008
9
DAV9
0000000009
10
DAV10
0000000010
11
DAV11
0000000011
12
DAV12
0000000012
13
DAV13
0000000013
14
DAV14
0000000014
15
DAV15
0000000015

1.Main Function Bar List：

File	Basic
Company Information	***Cardholder Info. Setting**
Parameter Adjustment	Department Info. Setting
Language	Card Issuance Operation→ ***Mifare Card Issuance** Temporary Card Issuance Guest Card Issuance
Log out	Operators Setting
	Import /Export

Access Control	Parking
HAMS-10→ Access Control Hardware Setting Auth Setting	Parking Setting
HAMS-19→ Access Control Hardware Setting Access Control Time Schedule Setting Auth Setting	Parking Time Schedule Setting
HAMS-20→ Access Control Hardware Setting Access Control Time Schedule Setting Auth Setting	Parking Auth. Setting
Event Monitor	Parking Access Report
Add Users Automatic	
Retrieve Biometric Characteristics	
Remote Open Door	
Biometric Reader Setting	

Elevator	Time Attendance
Elevator Controller Type→HDE-100 HDE-200	Hardware Setting
Elevator Setting	Auth Setting
Elevator Time Schedule Setting	Time Attendance Setting
Elevator Cardholder Auth. Setting	Duty Shift Setting

Swipe Card Report	Input Operation
Elevator Cardholder Auth Report (for HDE-100)	Attendance Records Transferring
	Time Attendance→ Late Statistic Un-swipe Card Report Daily Attendant Statistic Working Status Report Employee Access Report Leave Statistic Working Hours Report Attend Report
	Duty Attendance Report

Patrol	Report
Patrol Hardware Setting	Cardholder Info. Report
Patrol Route Setting	Department Info. Report
Patrol Duty Status Setting	Hardware Event Report
Patrol Report By Line	Swipe Card Report
Patrol Report By Status	Alarm Report
	Temporary Card Report
	Guest Card Report
	Login Report
	History Report
	First-Last Report
	Unknown Report
	First-Last Monthly Report

System	External Program
Database Operation	Dump Tool
Schedule	
Manual Export	

Help
Service
V1.X

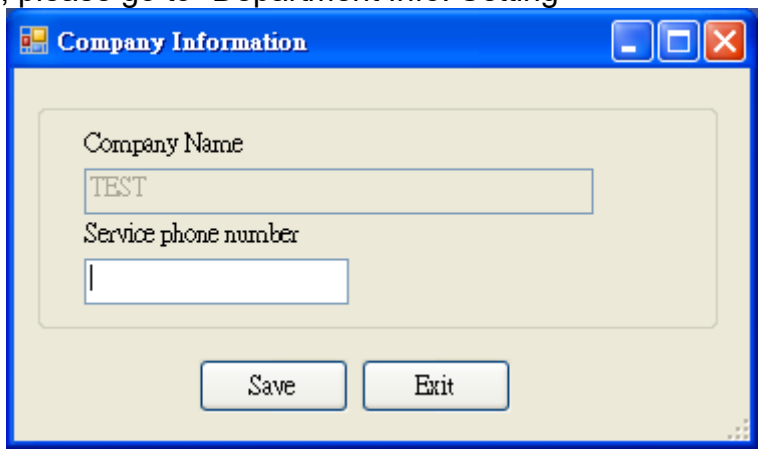
2. Common Function Bar: Above sub-items with 「*」mark has its own icon on the common Function Bar.
3. Status: Display log in account, current operation function and current date and time.

3. File

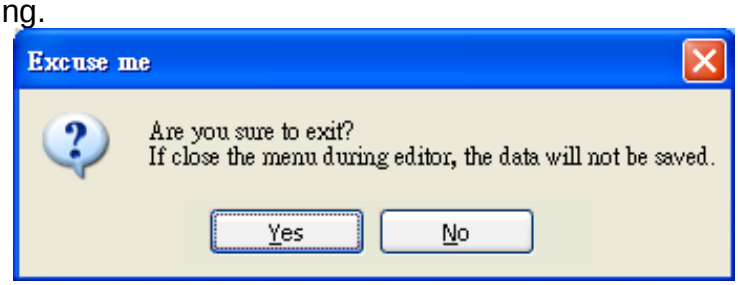
3-1 Company Information

Please input company name and customer service line.

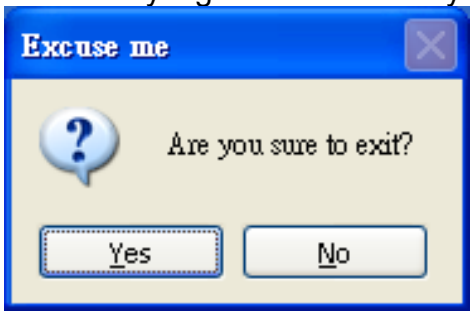
Company name is necessary; due to it is the supervisor department of all sub-department. The new company name will appear on “Department Info. Setting” program. If you want to modify information, please go to “Department Info. Setting”



Click the button “Exit”, system will pop up a message to check if you want to exit this function before the saving.



Click the ‘Exit” button in HAMS and may log out the HAMS system.

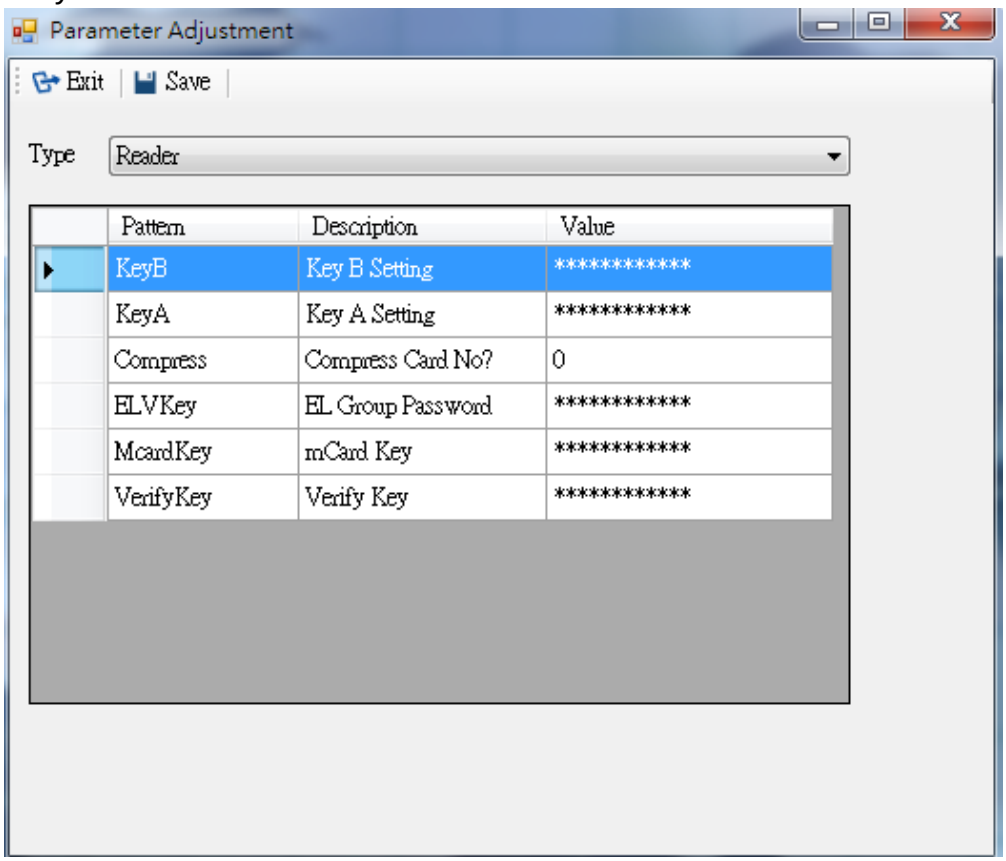


3-2 Parameter Adjustment

Adjusts parameter of Mifare card reader. Double click on the column “value” and input the value directly, then click 「Save」.

1. Reader：Mifare card reader setting includes:

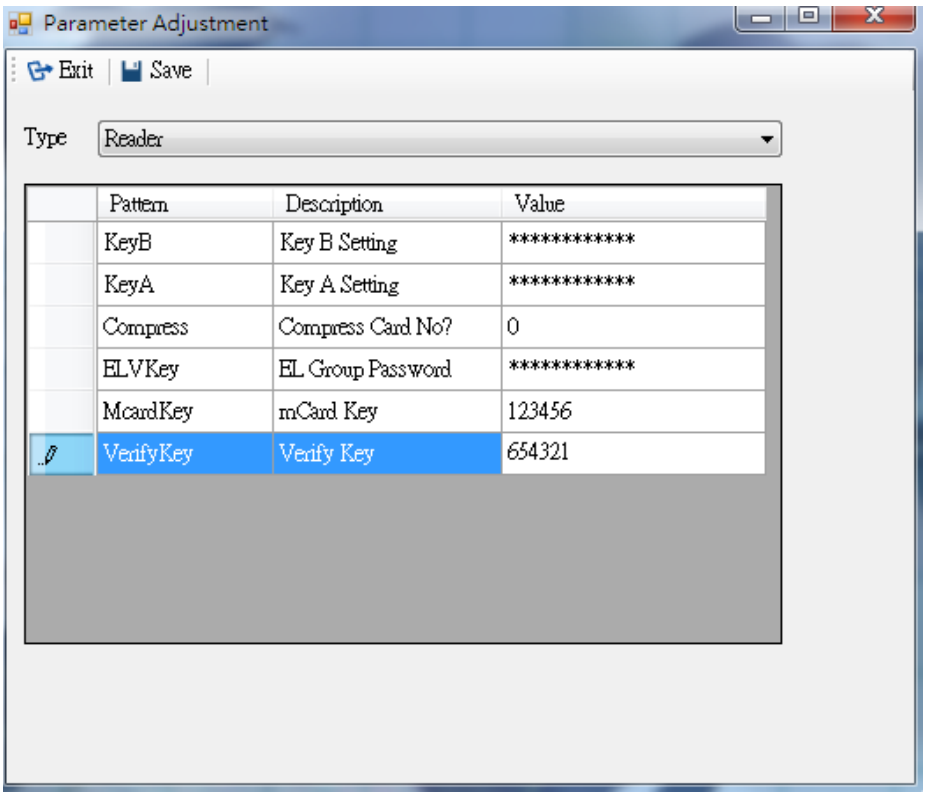
- Key B：Input Mifare Key value. Default is FFFFFFFFFFFF。
- Key A：Input Mifare Key value. Default is FFFFFFFFFFFF。
- Compress：Compressed or not. (Default)Value 0 signifies uncompressed card number. Value 1 signifies compressed card number.
- ELVKey：Reserved



- McardKey: The Mcardkey must be set to use the mobile phone to open the door. (Can be set to 24 bytes, limited to English / number)
- VerifyKey: The Verifykey must be set to use the mobile phone to open the door. (Can be set to 24 bytes, limited to English / number)

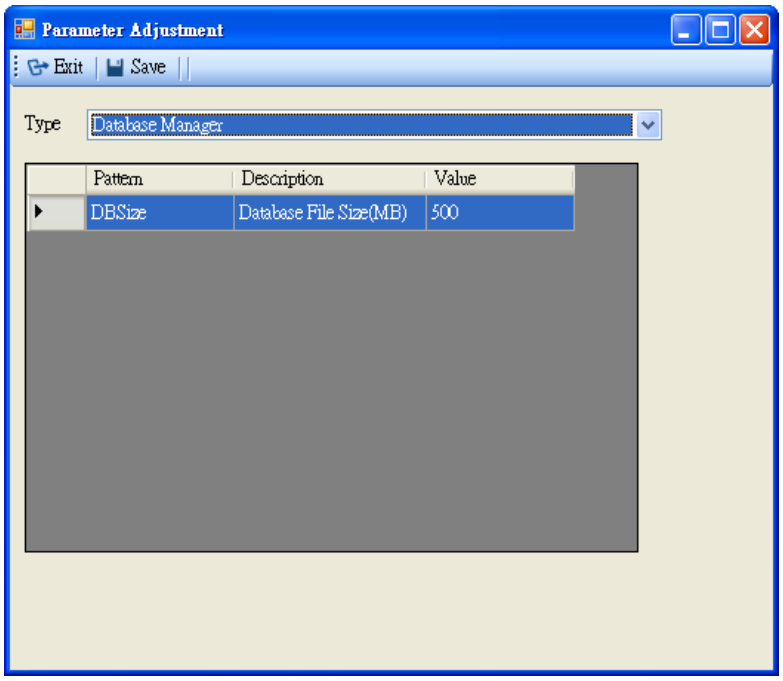
Note: The key set by McardKey and VerifyKey cannot be the same.

Then refer to Chapter 4-1-1 to apply for mobile phone to open the door.


Parameter Adjustment
Exit
Save
Type
Reader
Pattern
Description
Value
KeyB
Key B Setting
****
KeyA
Key A Setting
****
Compress
Compress Card No?
0
ELVKey
EL Group Password
****
McardKey
mCard Key
123456
VerifyKey
Verify Key
654321

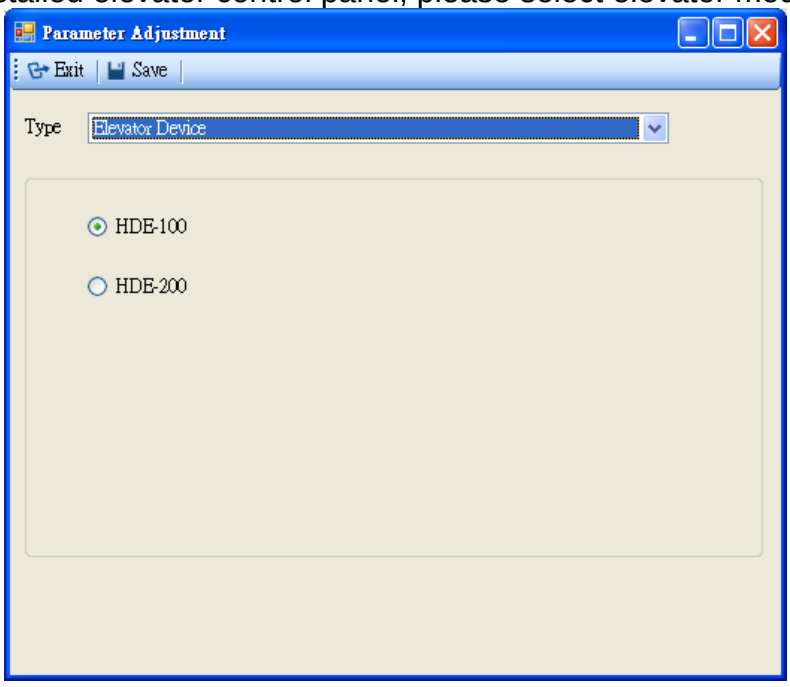
[Database Manager]

- DBsize(MB): Input value of database size. When the database is almost full, system will pop on the message to remain user to compact database or re-set database size.



[Elevator Device]

If you had installed elevator control panel, please select elevator model here.



【Mail】

Description of fields (Please refer to current mail box settings)

SmtpServer：Mail server

SmtpSort：SMTP Port

LoginID：Account

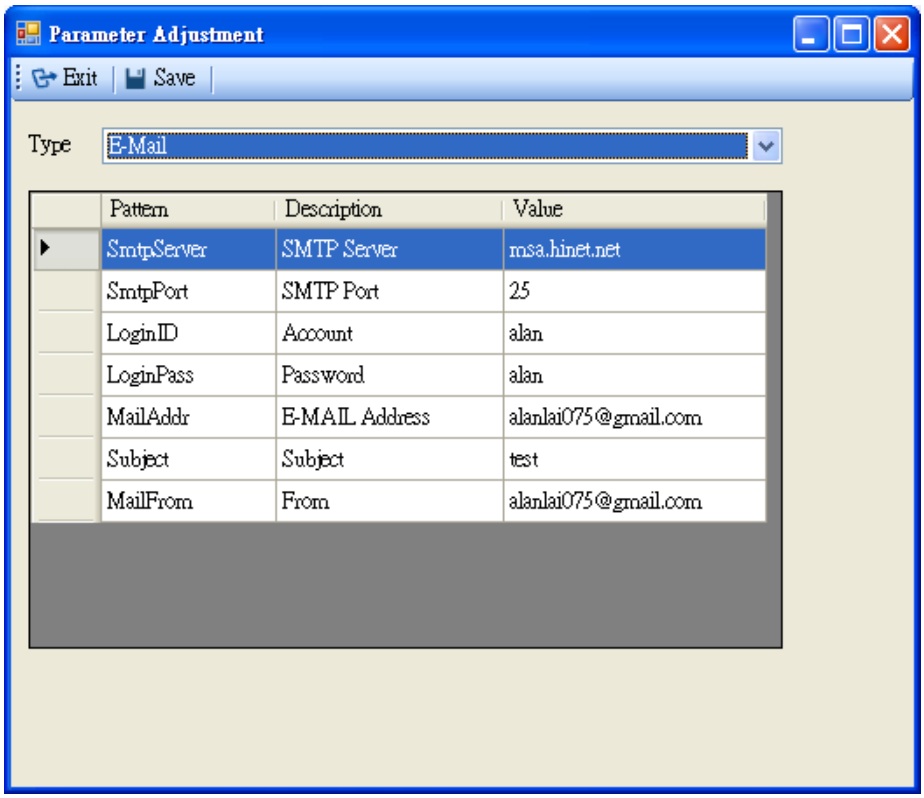
LoginPass：Password

MailAddr：EMAIL address。

Subject：Subject

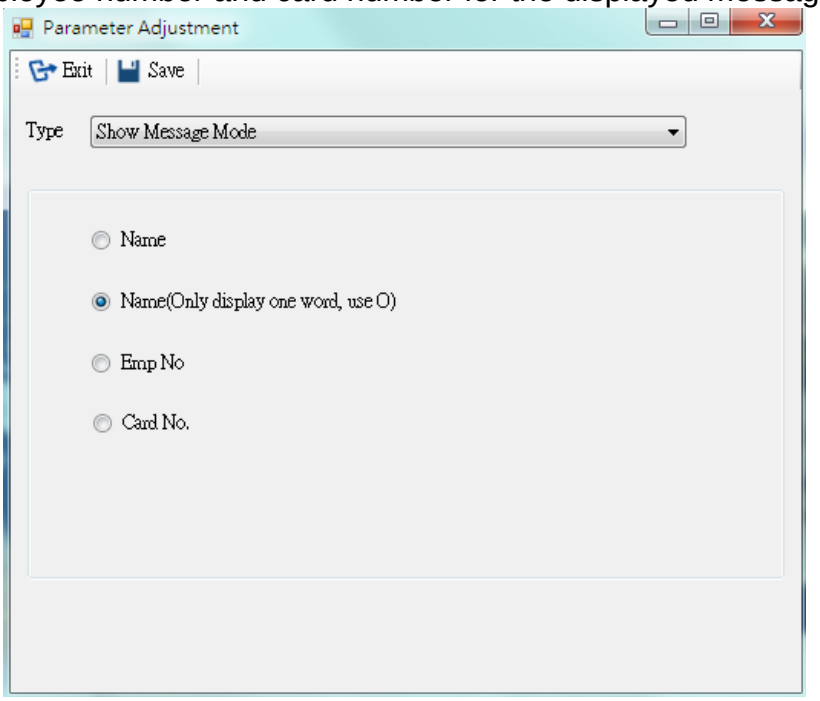
MailFrom: Sender

Note: Mail address is necessary field. Please input mail address in cardholder info setting too. If mail address is filled, when there are events, system will send mail to the user. (The QRCode of the visitor card is also sent to the visitor from here)



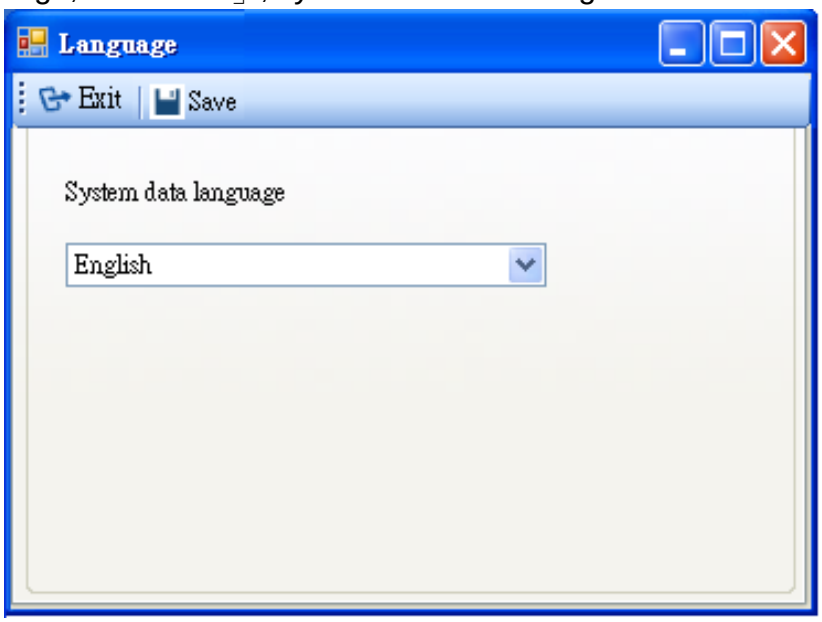
【Show Message Mode】

Support LCD display monitor type and provide Name, Name (only display one word, use O), Employee number and card number for the displayed message.



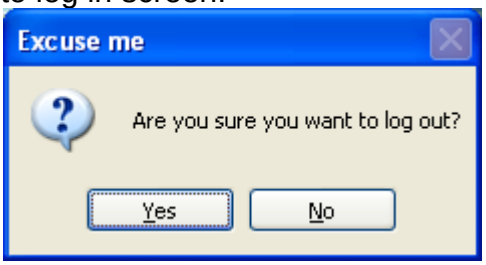
3-3 Language

System provides English, Traditional Chinese, Simplified Chinese and Spanish.
After select language, click「OK」, system will back to login screen.



3-4 Log Out

When you click Log out, system will pop up a screen asking for a confirmation. Click「Yes」, and the system will go back to log in screen.



4. Basic

4-1 Cardholder Info. Setting

Support adding, delete, modify cardholder information and card number.
Adding Cardholder Operation Steps：

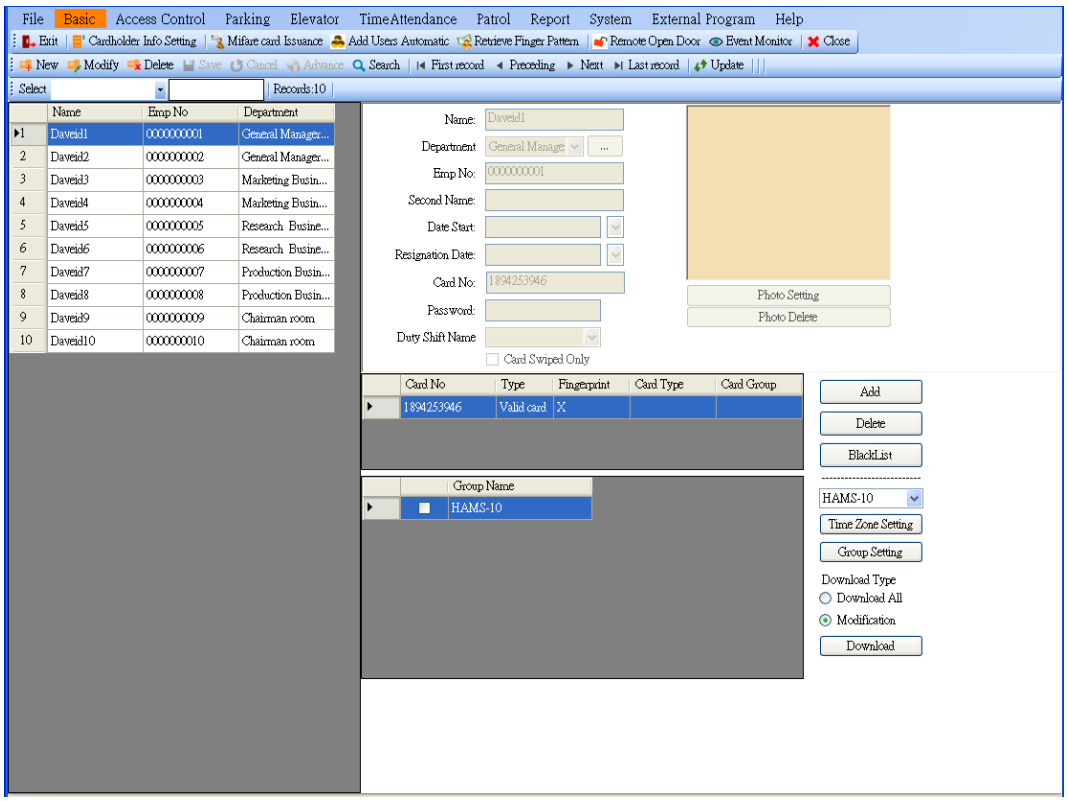
1. Click「New」, input cardholder information.
   - Name (required), 20 letters available.
   - Department (Click Key […] will link to Department Info. Setting.), 10 letters available.
   - Emp. No.(required), 10 letters available.
   - Second name, 40 letters available.
   - Date Start, 8 letters available.
   - Resignation Date, 8 letters available.

     Note: The date start and resignation will be regarded as the effective date of the card under the HDE-120 device.
   - Card No, 16 letters available.
   - Password：Allow users access by card+ password. Max. 4 digits.

     Note: The HAC-100/101 device, the password is fixed at 4 codes.
   - Duty Shift Name：Click key […] will link to Duty shift setting.

2. Click “Advanced”, you can input other information as below:
   - Birth Date, click drop down menu, you can select date.
   - Phone 1, 15 letters available.
   - Address, 50 letters available.
   - Phone 2, 15 letters available.
   - Defined1: This field is for operator to make notation. Ex: A building or B building. It will not show on the report or controller.
   - Defined2: Same with above.
   - National ID No., 15 letters available.
   - E-mail, 30 letters available.

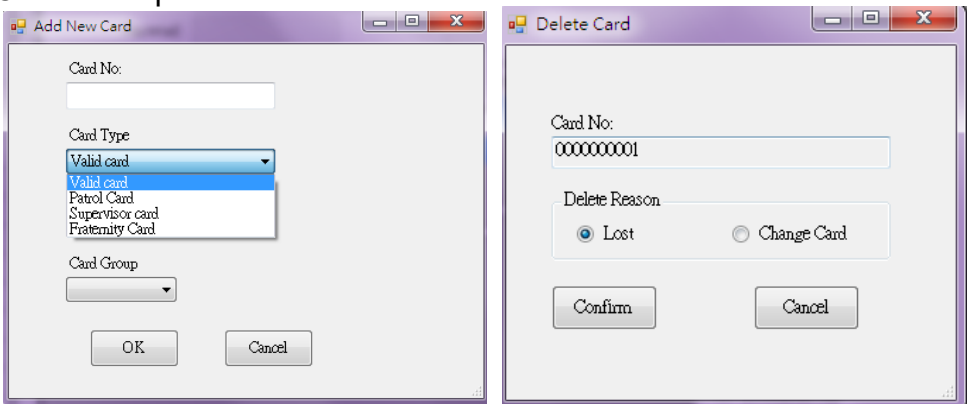
3. Click 「Save」.



4. Card No.: To add more cards to a cardholder, please check follow steps.

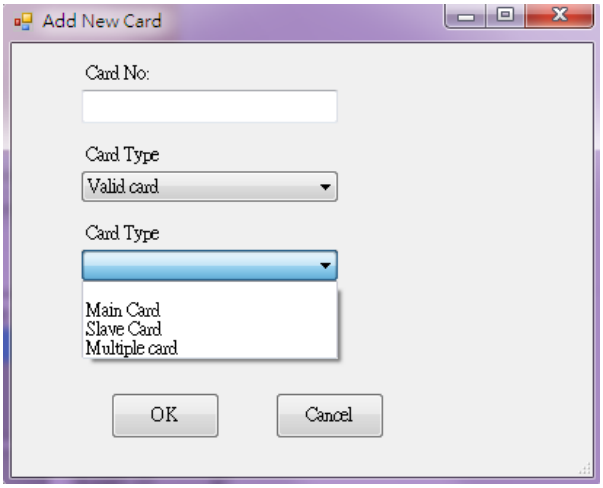
● Add New Card：	Click Card No. key Add, a screen will pop up, please input card number and select card type.
● Delete Card /Change Card No：	Click Card No. key Delete, a screen will pop up, please input card number and select the reason.
● Blacklist Setting:	Click Card No. key Black List, the card will be automatically set as blacklist card.

5. If you want to modify the card information, please select the card from the list and double click to modify it.
6. Click “OK” to complete the card number.



Card Type：(HAC-710/RAC-971QE/RAC-971QM/HAC-A12 series support priority card and supervisor card)

- Valid Card: Default.
- Patrol Card: Need to work with patrol function.
- Supervisor Card: The card is not restricted by time schedule, and is for supervisor.
- Fraternity Card: The card can unlock door for 30 seconds, and is for special condition user.



Card Type：

- RAC-960 Fingerprint Controller: Please refer to (HAMS-19) hardware setting chapter (Parameter 2)，tick “Dual card” to enable the function.
  - Only two people swipe their cards or scan their fingerprints to unlock the door during the restricted time.
  - The two users must be in Group A, or two users must belong to the different groups (one is in Group A and the other is in Group B), but they cannot be in Group B.

Dual card function description	Authorized unlock door
During the period, unlock the door by swiping card of Group A + card of Group A	Success
During the period, unlock the door by swiping card of Group A + card of Group B	Success
During the period, unlock the door by swiping card of Group B + card of Group B	Failure

- RAC-2400 Control Panel: RAC-2400 Control Panel: About master/slave card and dual card setting, please refer to “Modify DOOR” in Hardware Setting Chapter

(HAMS-24). In “Reader Action Setting”, select “Master / Slave Card Time Schedule” and set to “Access Door Point” to enable this function.

- Master/Slave Card: In the same group, any master card matches any slave
- Dual Card: Swipe any two cards of the same group can unlock the door.

Card Group：There are 64 groups for master/slave card and dual card combination. With RAC-960 / RAC-2400 can set the groups.

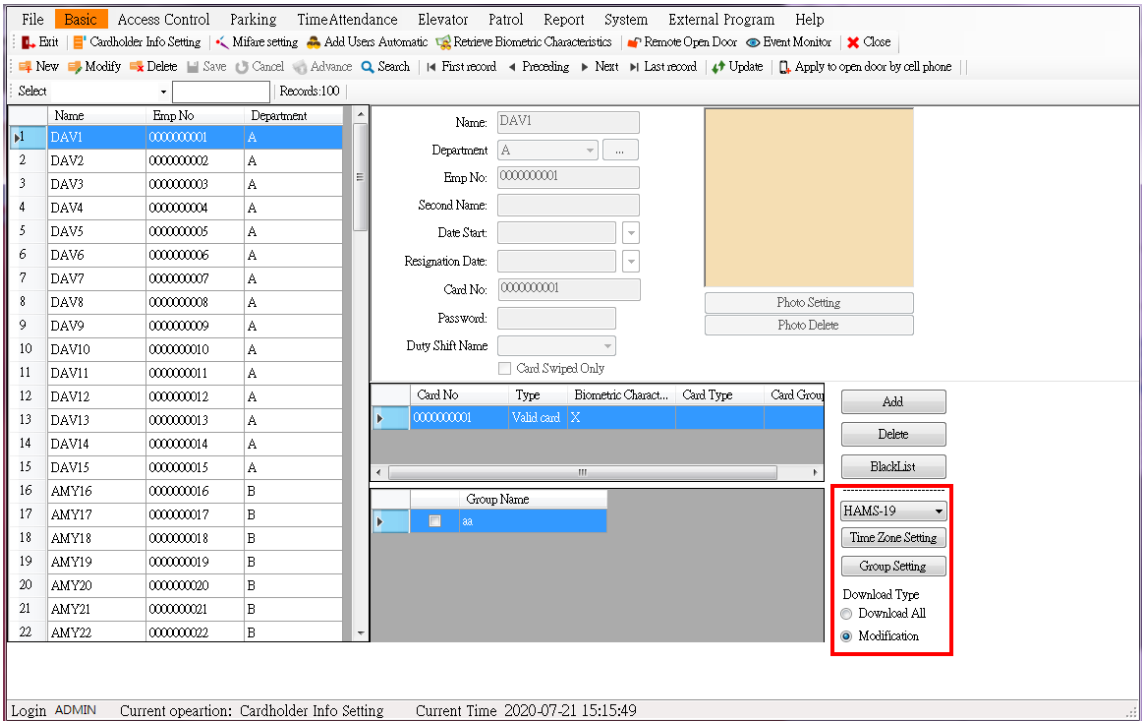
「Select」 icon provides search by name, card number, phone 2 or Emp. No. User will get all employee information as required after clicking「Search」. Return to beginning screen with all cardholders information, please click「Update」.

Other Icon functions：

- Photo Setting：It is recommended that the photo file not exceed 100K for the optimum display. Support JPG、BMP、GIF format. Click 「Photo delete」to delete photo.
- Card Swiped Only：When tick the check box, it signifies the cardholder may access by card, do not need use biometric characteristics. (For biometric characteristics device only)
- Software selection: Please select what software you want to use.
- Time Zone Setting：Time zone setting page will pop up after click this button. If the controller does not have time zone function. This button is no effect.
- Group Setting：Authorization setting page will pop up.◦You can create authority directly.

Download Type：

- Download All：Download all users’ information and authorizations.
- Modification：Download modified users’ information and authorizations.
- Download：Please click download button and system will download into controller.


File
Basic
Access Control
Parking
TimeAttendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare setting
Add Users Automatic
Retrieve Biometric Characteristics
Remote Open Door
Event Monitor
Close
New
Modify
Delete
Save
Cancel
Advance
Search
First record
Preceding
Next
Last record
Update
Apply to open door by cell phone
Select
Records:100
Name
Emp No
Department
Name:
Department
Emp No:
Second Name:
Date Start:
Resignation Date:
Card No:
Password:
Duty Shift Name
Card Swiped Only
Photo Setting
Photo Delete
Card No
Type
Biometric Charact...
Card Type
Card Grou
Add
Delete
BlackList
Group Name
HAMS-19
Time Zone Setting
Group Setting
Download Type
Download All
Modification
Login ADMIN
Current opeartion: Cardholder Info Setting
Current Time 2020-07-21 15:15:49

4-1-1 Apply to open door by cell phone

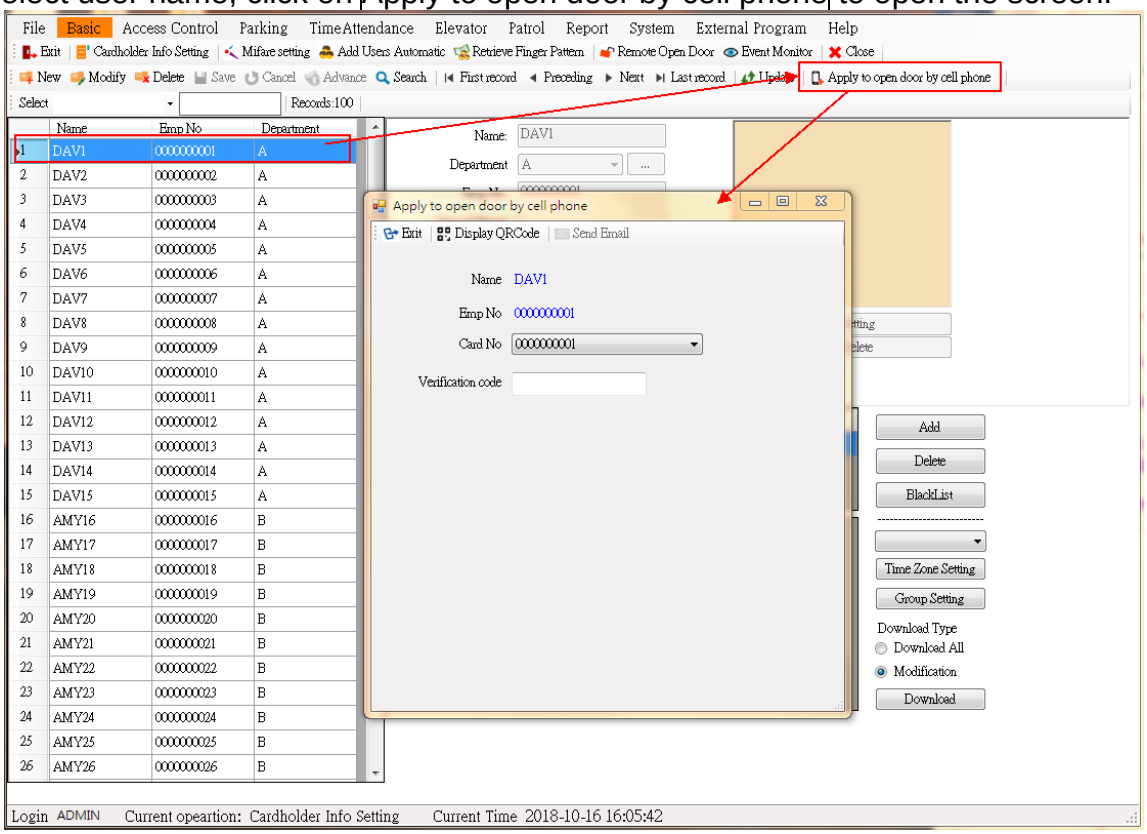
After scanning the QRCODE displayed by the system to get the card number, BLE APP can be used to open the door.

Caution: Before applying for door open with cell phone, please download the BLE App on your cell phone. After the installation is complete, open the App and verify the code with software verification.

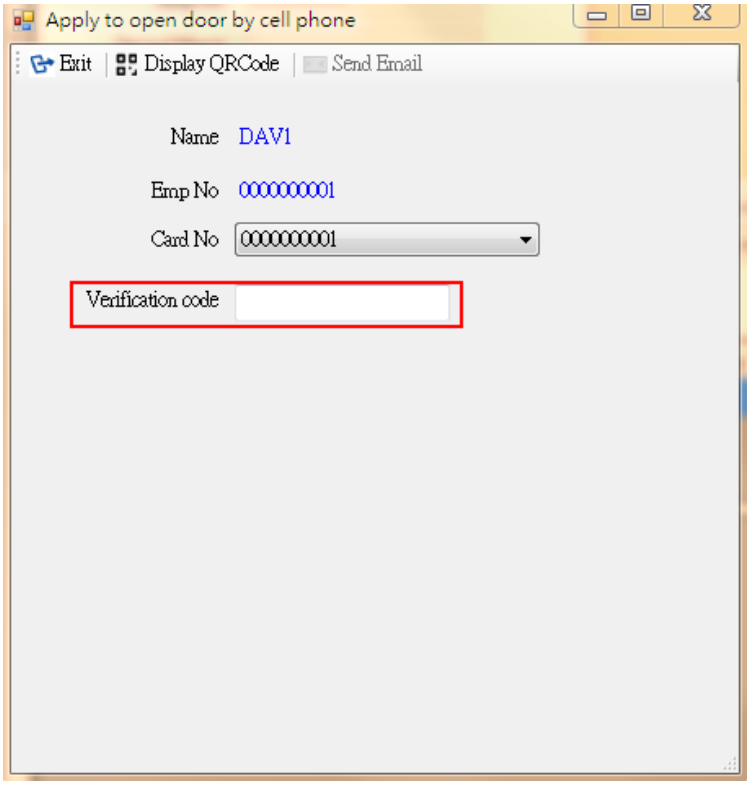
Please set the McardKey and VerifyKey keys first (refer to section 3-2 Parameter Adjustment) and mKey settings. (Please refer to chapter 5-10-5 mKey settings).

Operation steps:

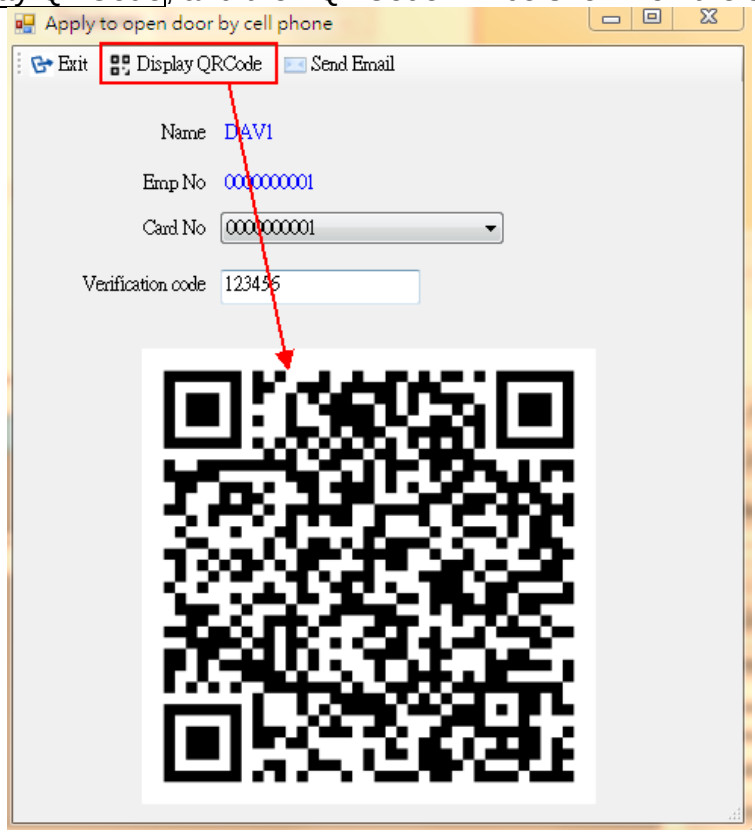
1. Select user name, click on Apply to open door by cell phone to open the screen.



2. Open the BLE APP in cell phone at the same time, a verification code will appear, input the verification code in this field.



3. Click on Display QRCode, and then QRCode will be shown on the screen.



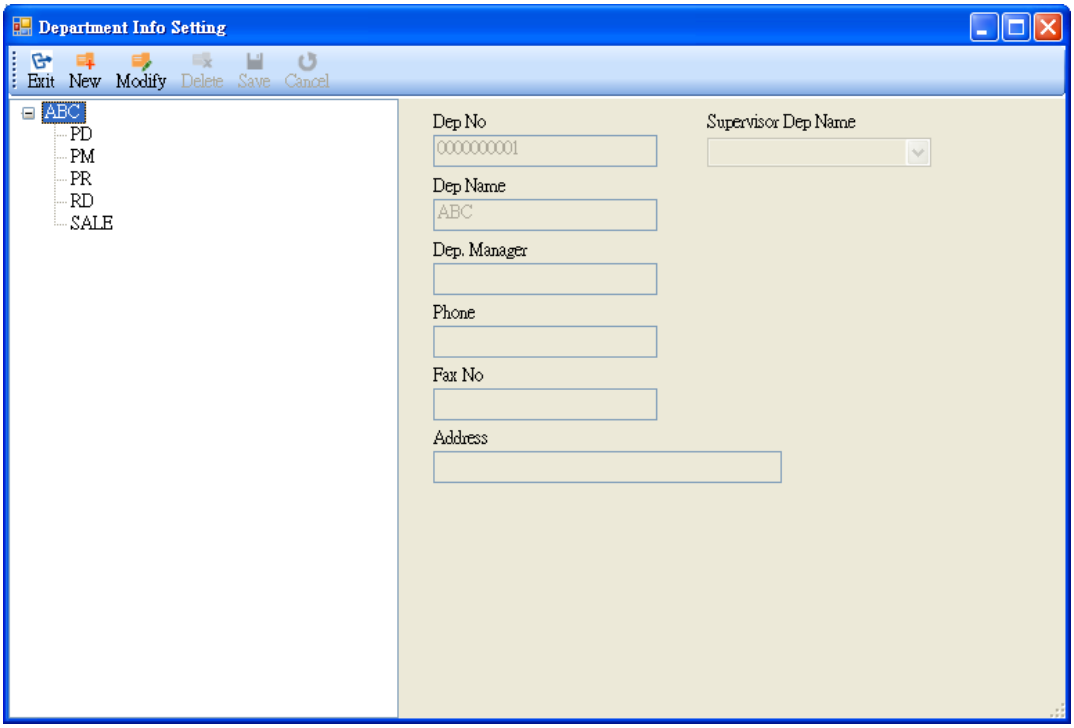
4. When then use the barcode scanner in the BLE APP, scan the QR Code to complete the registration, and the card number is paired to the cell phone.

4-2 Department Info. Setting

Add or modify department information. When creating a new department, the system sets company name as supervisor department. The system only supports one company name.

Operation Steps：

1. Click Department Name, it will have backlight.
2. New：Department number and name are necessary. Null not allowed for Contact person/Phone 1/Fax No./Mailing add.
3. Modify：Select the department and click「Modify」to revise the data. Please note that Department number can not be modified.
4. Delete：Select the department and click 「Delete」, the department will be moved.

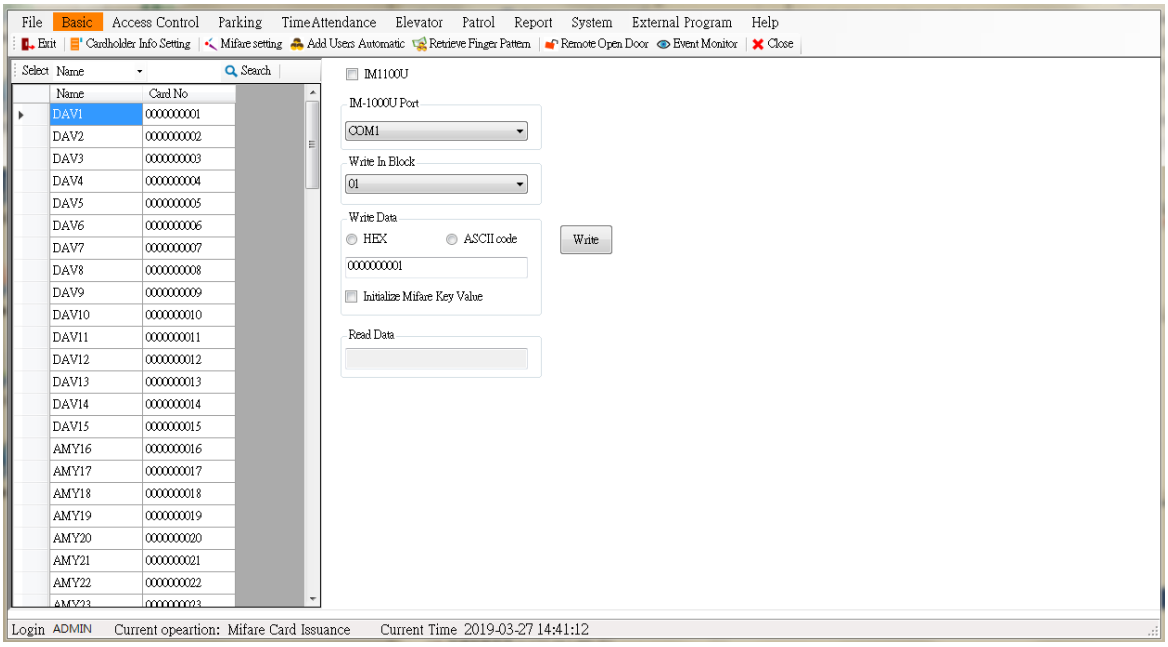


4-3 Card Issuance Operation/ Mifare Card Issuance

Please connect with external Mifare encoder. It may avoid duplication inputting.

Operation Steps:

1. IM-1100U：After check the box, please select to use IM-1100U encoder.
2. IM-1000 Port：Select communication port.(For IM-1000 only)
3. Write Data：Data format should be HEX or ASCII code.
    - Sample HEX value：ABCDEF123456789042
    - Sample ASCII code：43 44 45 46 47 31 32 33 34 35 36 37 38 39 30
4. When Initialize Mifare Key Value is activated, system will log in to Mifare card with FFFFFFFFFFFF first. Then write data into block base on Key A which you set in Parameter Setting workspace.
5. Click「Write」to write data to Mifare card.

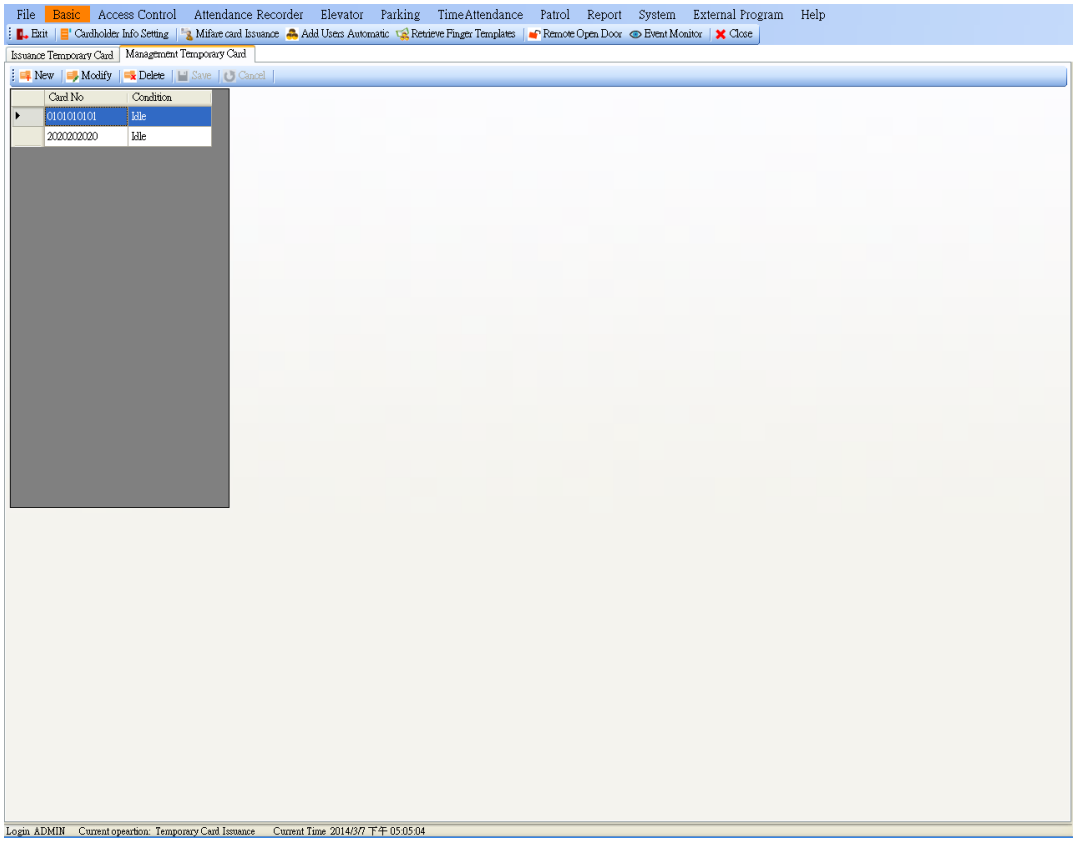


4-4 Card Issuance Operation/ Temporary Card Issuance

Assign the temporary card to user.

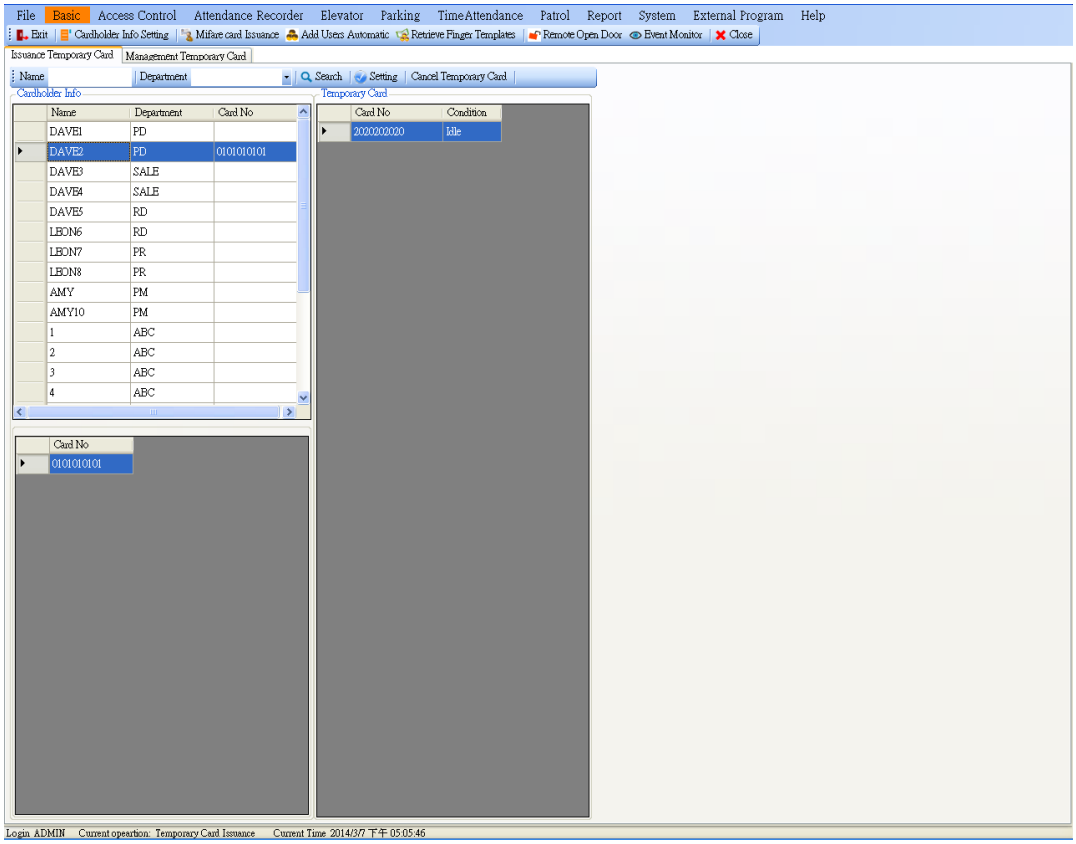
Operation Steps：

1. In Management Temporary Card workspace , click「New」.
2. Input temporary card number.
3. Click「Save」to save the card number.



4. In Issuance Temporary Card workspace, click「Search」. Card no. for all cardholders will be shown on the left side. Click a cardholder then click temporary card number, the temporary card will be assigned.
5. If you want to cancel, click「Cancel Temporary Card」.

Above temporary card setting will be affected after download.


File
Basic
Access Control
Attendance Recorder
Elevator
Parking
TimeAttendance
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare card Issuance
Add Users Automatic
Retrieve Finger Templates
Remote Open Door
Event Monitor
Close
Issuance Temporary Card
Management Temporary Card
Name
Department
Search
Setting
Cancel Temporary Card
Cardholder Info
Name
Department
Card No
DAVE1 PD
DAVE2 PD 0101010101
DAVE3 SALE
DAVE4 SALE
DAVE5 RD
LBDN6 RD
LBDN7 PR
LBDN8 PR
AMY PM
AMY10 PM
1 ABC
2 ABC
3 ABC
4 ABC
Temporary Card
Card No
Condition
20202020 Idle
Card No
0101010101
Login ADMIN
Current operation: Temporary Card Issuance
Current Time 2014/3/7 下午 05:05:46

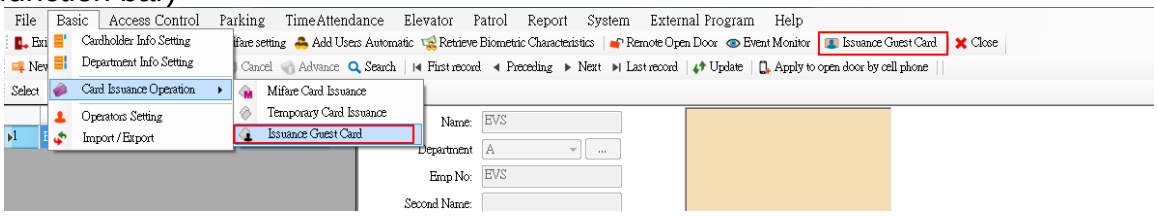
4-5 Card Issuance Operation/ Issuance Guest Card

The functions of guest card setting and QR Code sending.

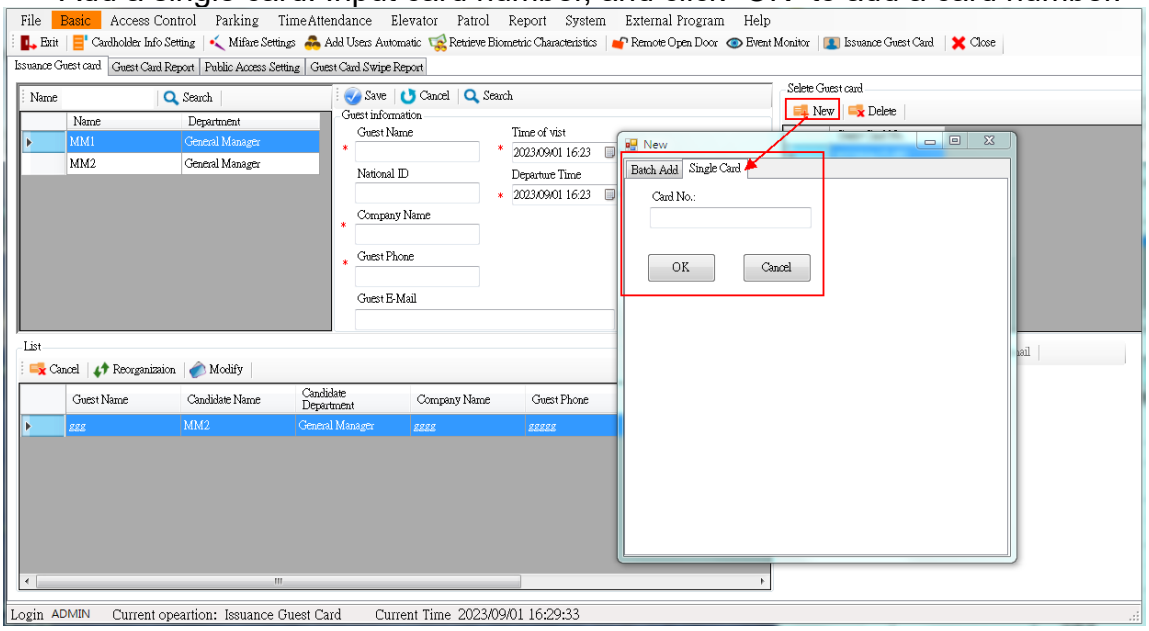
4-5-1 Issue a Guest Card

Operation Steps:

1. Click “Issuance Guest Card”. (You can enter from “Basic”, or click the shortcut on the function bar)



2. Click “Query”, click employee name, and then input the guest's name, guest ID number, company name, guest phone number, guest email, visit time and departure time (* indicates that all fields are required).
3. Click on the guest card number.
   - Add a single card: Input card number, and click “OK” to add a card number.



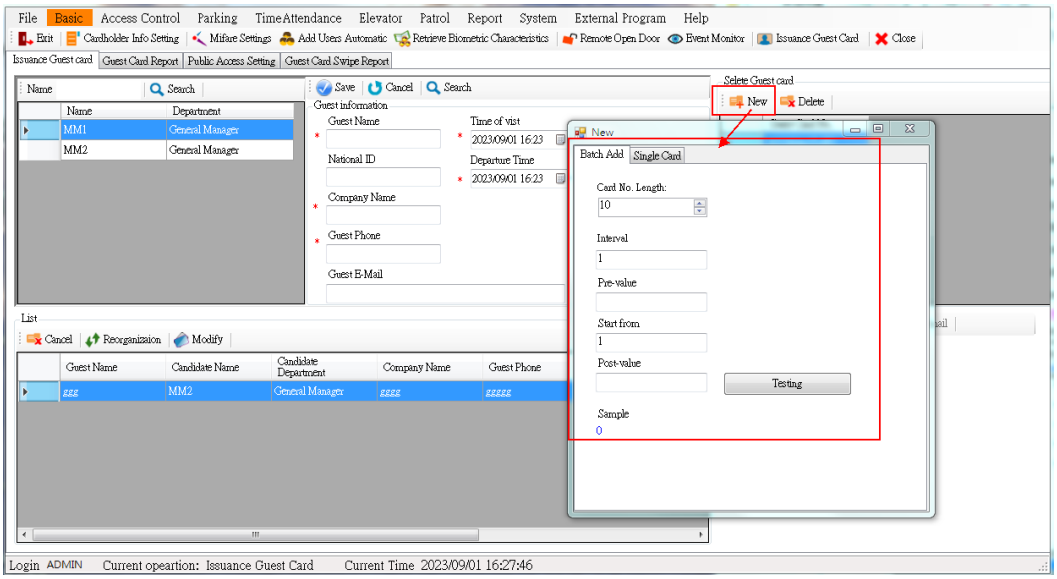
   - Batch Add: Operation by following steps.
     - Card number length (default is 10 bytes).
     - Card number interval: The number of card number intervals.
     - Pre-value: Fixed data before starting value.
     - Start from: Start value of card number (Only numbers can be entered).
     - Post-value: Fixed data after starting value.
     - Sample: Display content value.

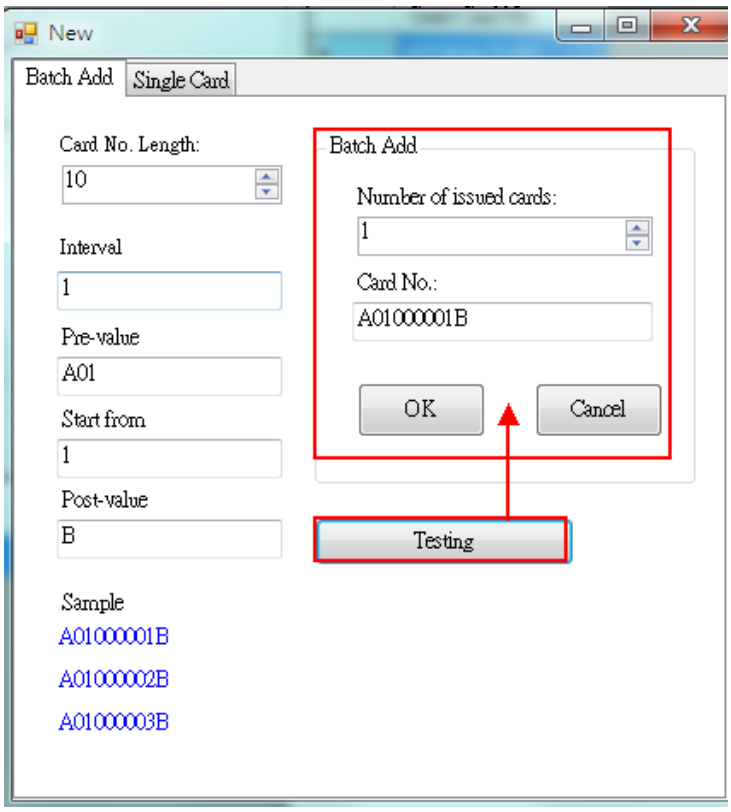
- Testing: Display several pieces of data at one time, automatically calculated by the system.

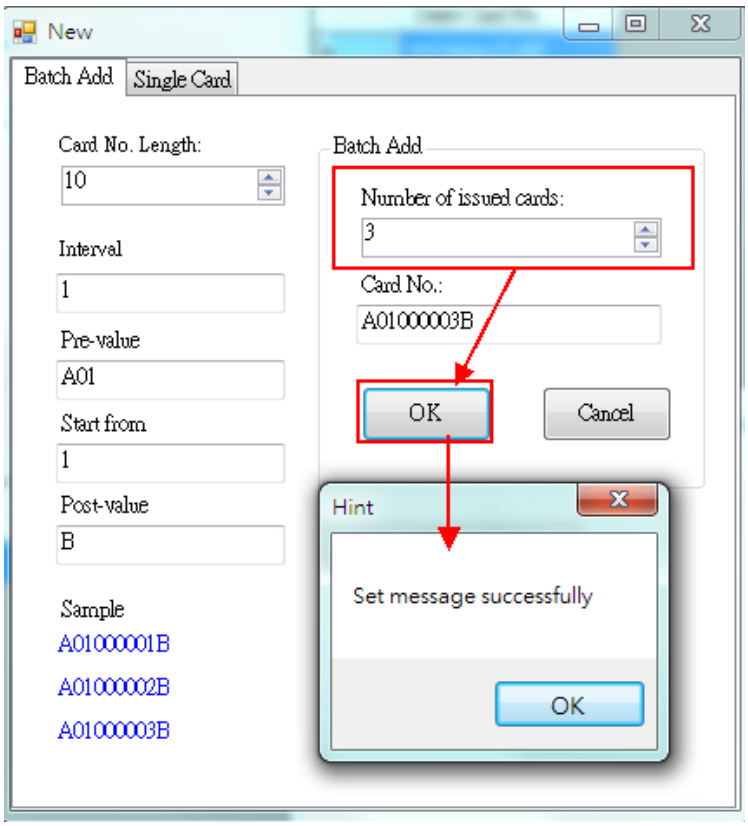
Note: Click “Testing” to display the fields about number of issued cards, and card number.

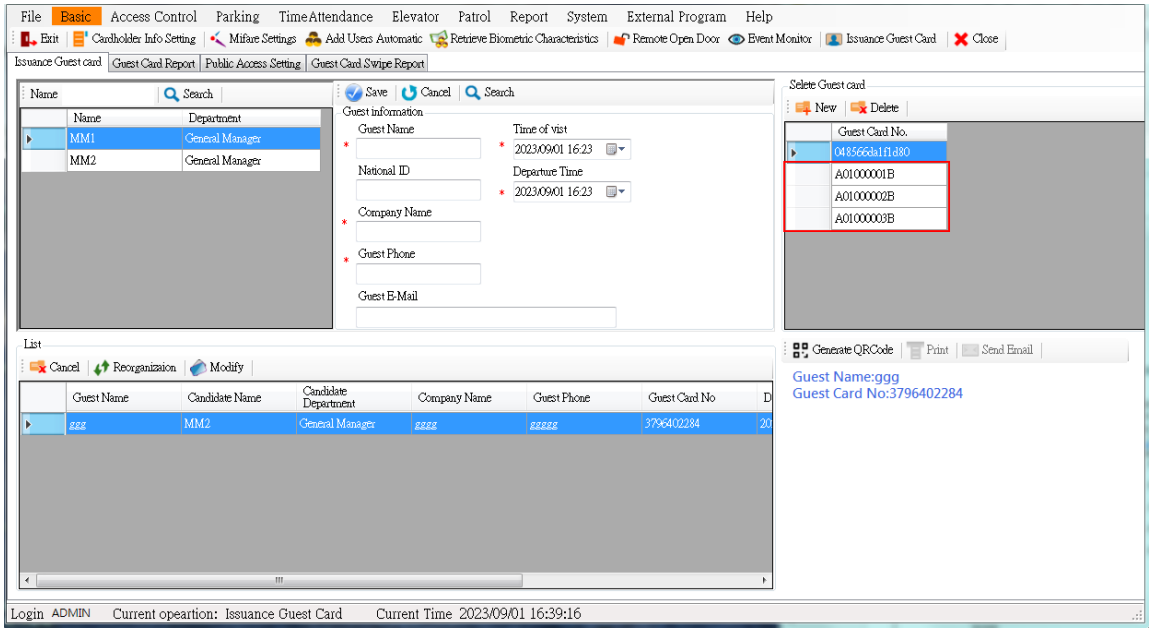
- Number of issued cards: Count the number of cards.
- Card number: Starting card number.

Note: “Sample” is an example of the system presenting the order of card numbers.

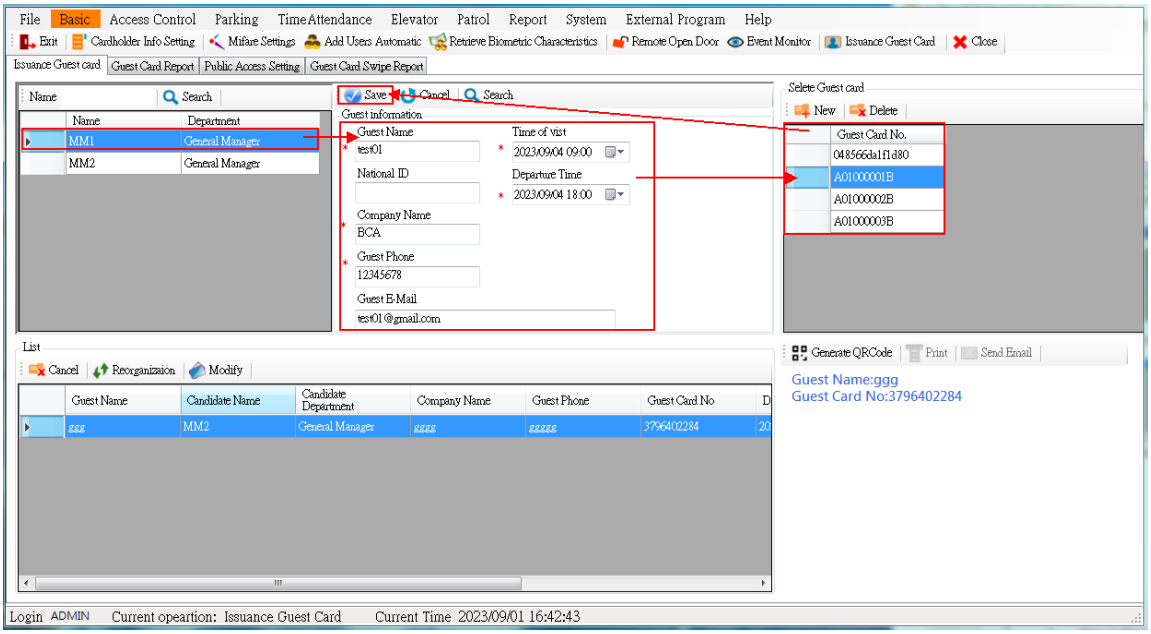


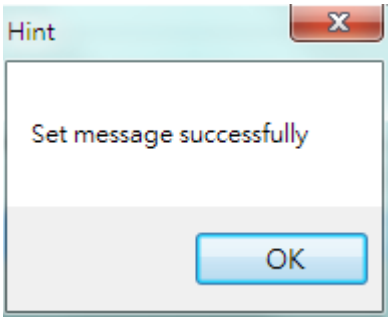



New
Batch Add
Single Card
Card No. Length:
10
Interval
1
Pre-value
A01
Start from
1
Post-value
B
Sample
A01000001B
A01000002B
A01000003B
Batch Add
Number of issued cards:
3
Card No.:
A01000003B
OK
Cancel
Hint
Set message successfully
OK

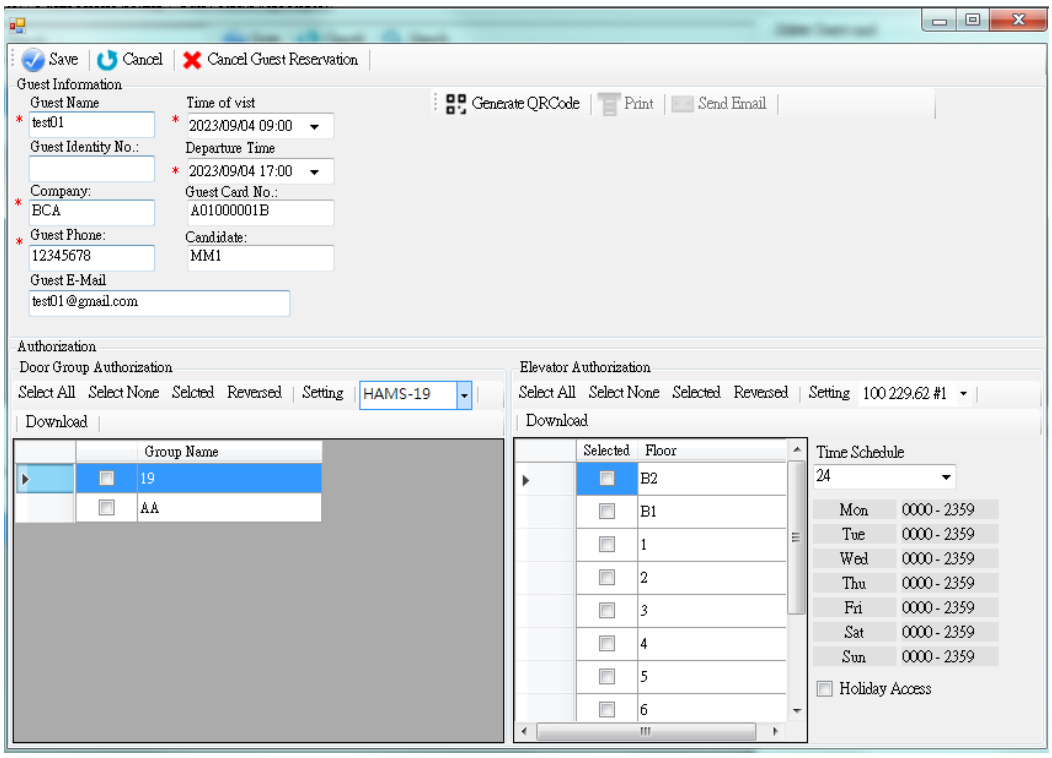

File
Basic
Access Control
Parking
Time Attendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare Settings
Add Users Automatic
Retrieve Biometric Characteristics
Remote Open Door
Event Monitor
Issuance Guest Card
Close
Issuance Guest card
Guest Card Report
Public Access Setting
Guest Card Swipe Report
Name
Search
Department
MM1
General Manager
MM2
General Manager
Save
Cancel
Search
Guest information
Guest Name
Time of visit
2023/09/01 16:23
National ID
Departure Time
2023/09/01 16:23
Company Name
Guest Phone
Guest E-Mail
Selete Guest card
New
Delete
Guest Card No.
048566da1f1d80
A01000001B
A01000002B
A01000003B
List
Cancel
Reorganization
Modify
Guest Name
Candidate Name
Candidate Department
Company Name
Guest Phone
Guest Card No
ggg
MM2
General Manager
gggg
ggggg
3796402284
Generate QRCode
Print
Send Email
Guest Name:ggg
Guest Card No:3796402284
Login ADMIN
Current opeartion: Issuance Guest Card
Current Time 2023/09/01 16:39:16

4. Select a guest card and click “Save”. The window will show “Set message successfully”, click “OK”.

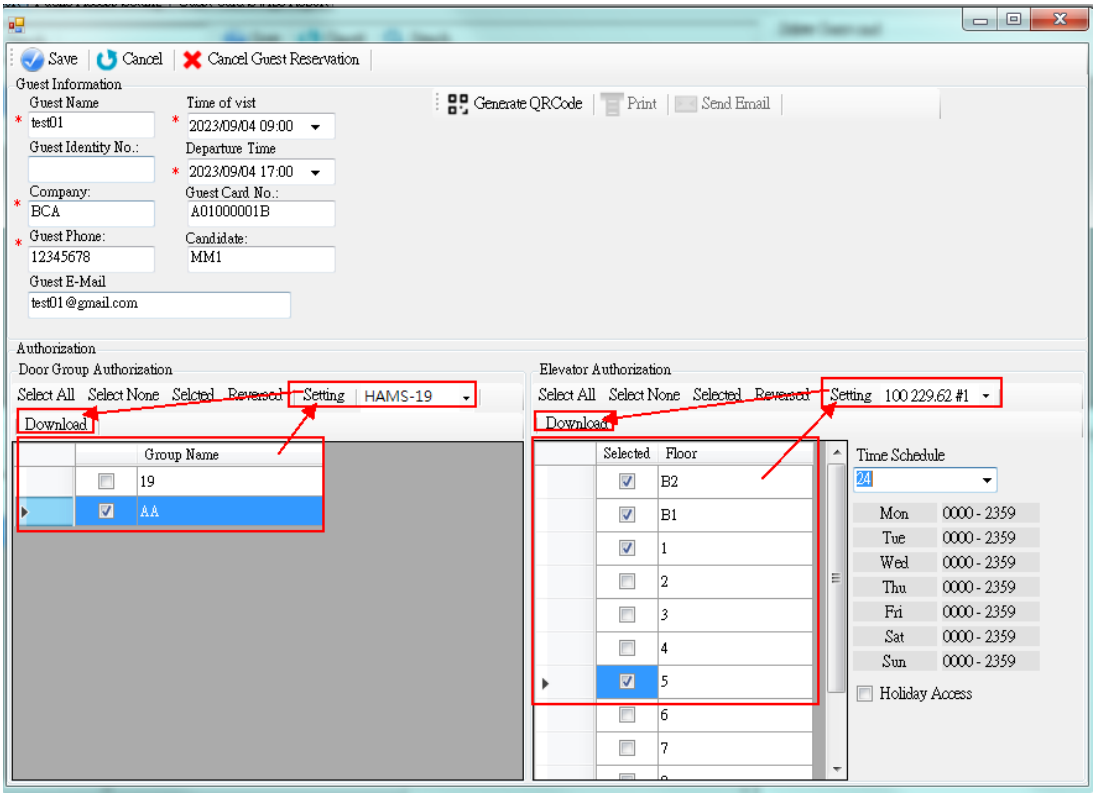




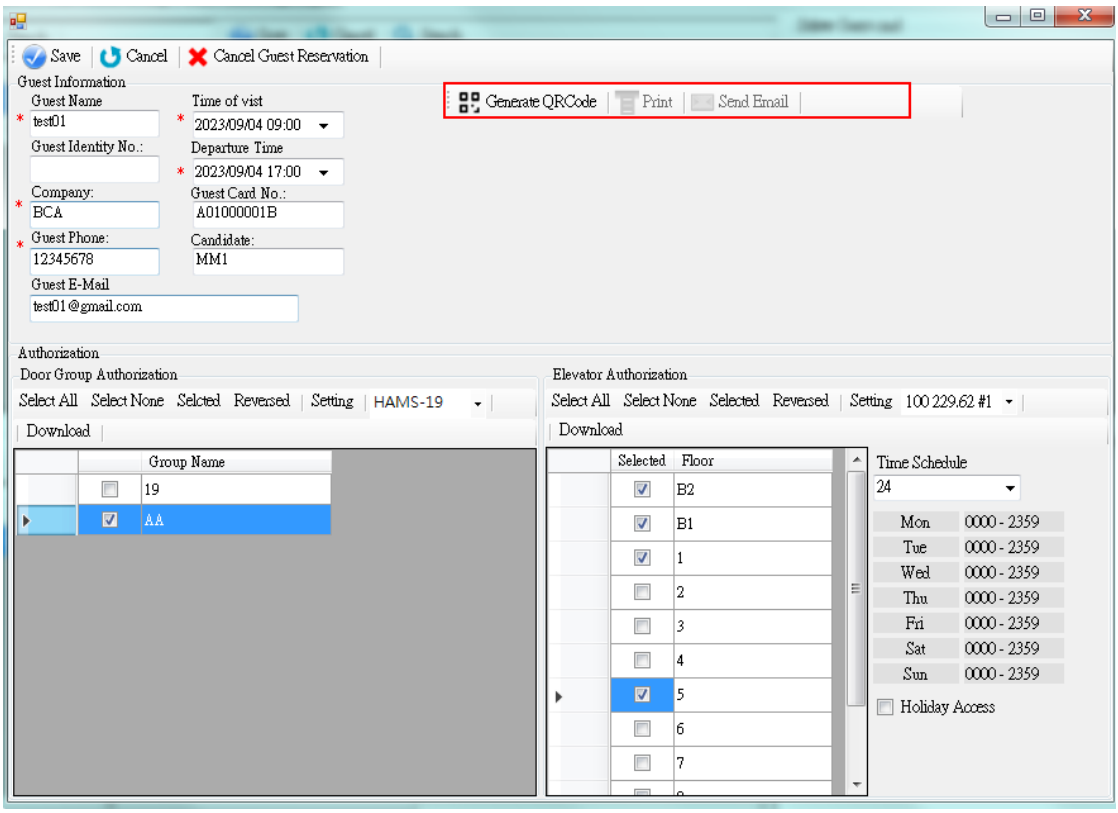
5. The guest card information will be displayed in the window. The user can specify the door group or elevator authorizations of the guest card.

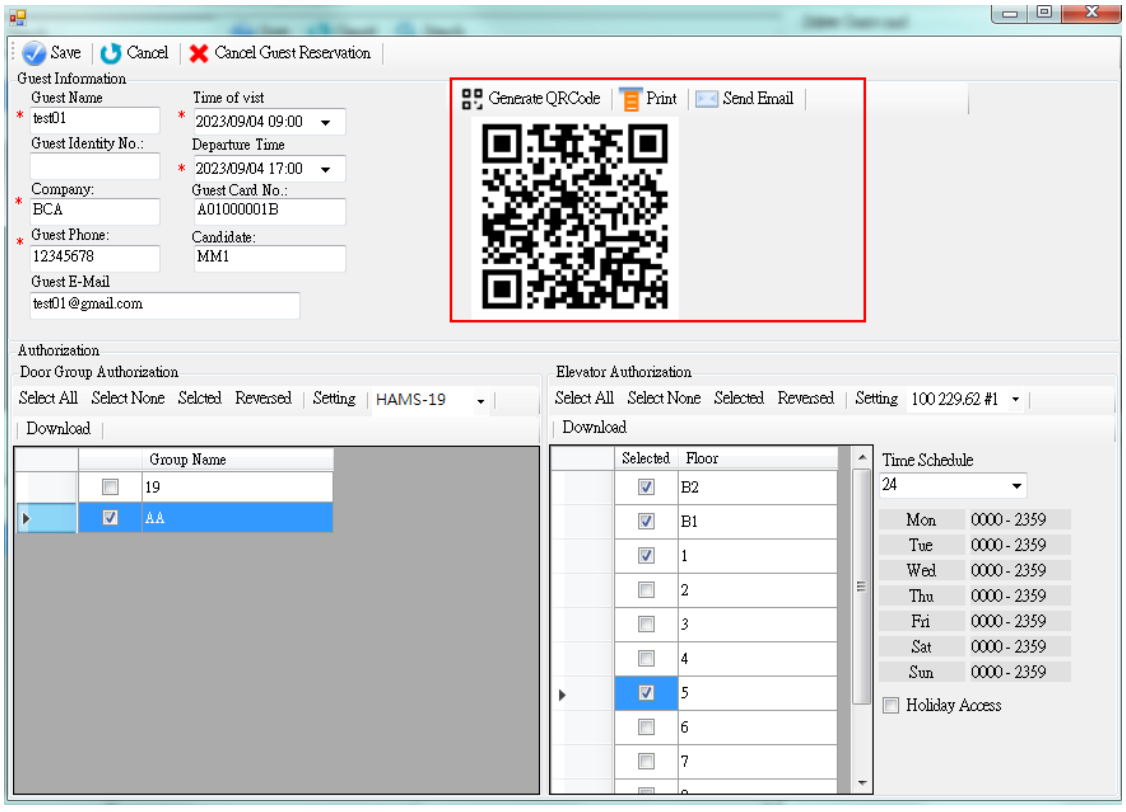


6. Select door group authorization or elevator authorization, and then click “Setting” to indicate the door group authorization or elevator authorization has been selected. Click “Download” in Door Group Authorization or “Download” in Elevator Authorization, system will download card number authorization to device.



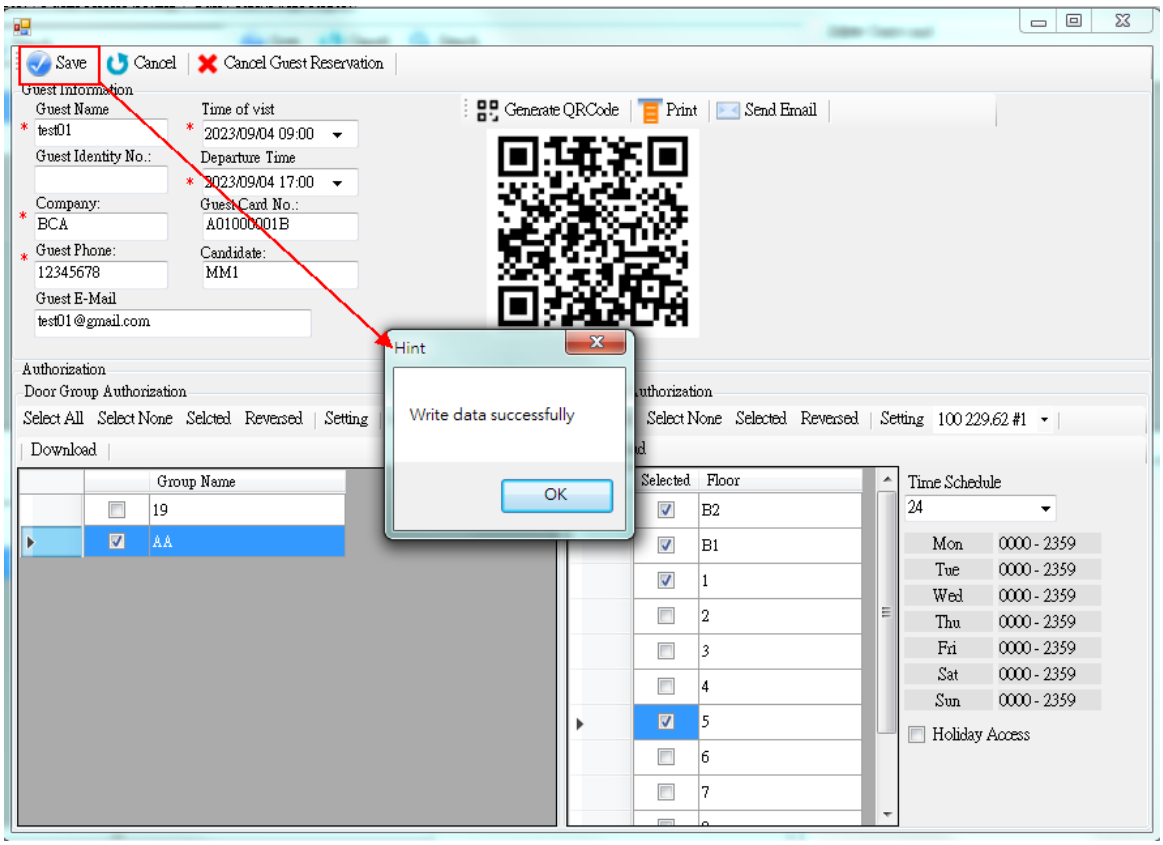
7. After complete the authorization download, click “Generate QR Code”. The system will issue an QR Code that can be printed out or sent to the guest by email.

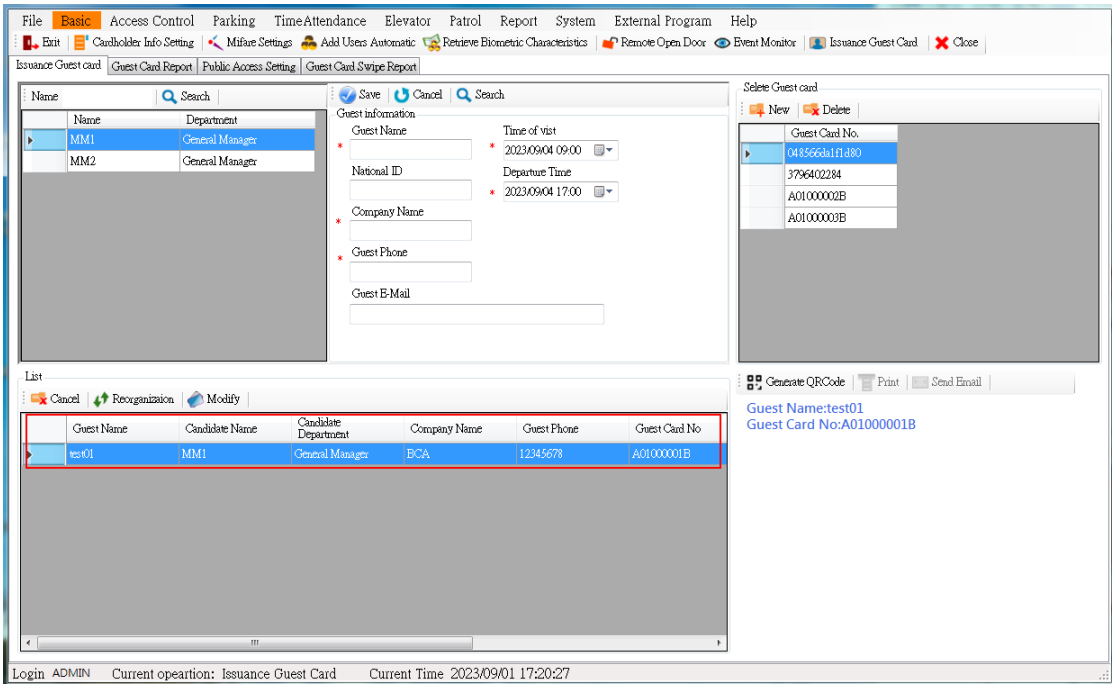




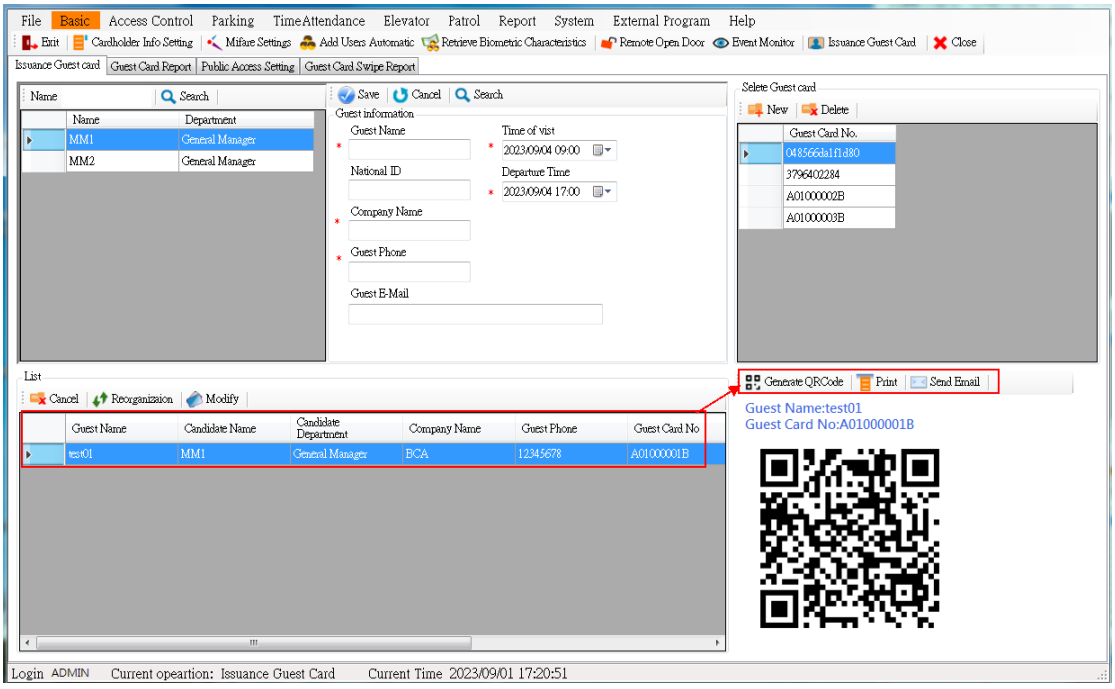
8. After click “Save” to complete the saving, “Write data successfully” will appear and the guest information will be displayed in the table in the lower left corner.

   Note: If the visit time expires, modification and saving cannot be performed, and the guest card needs to be canceled and added again.



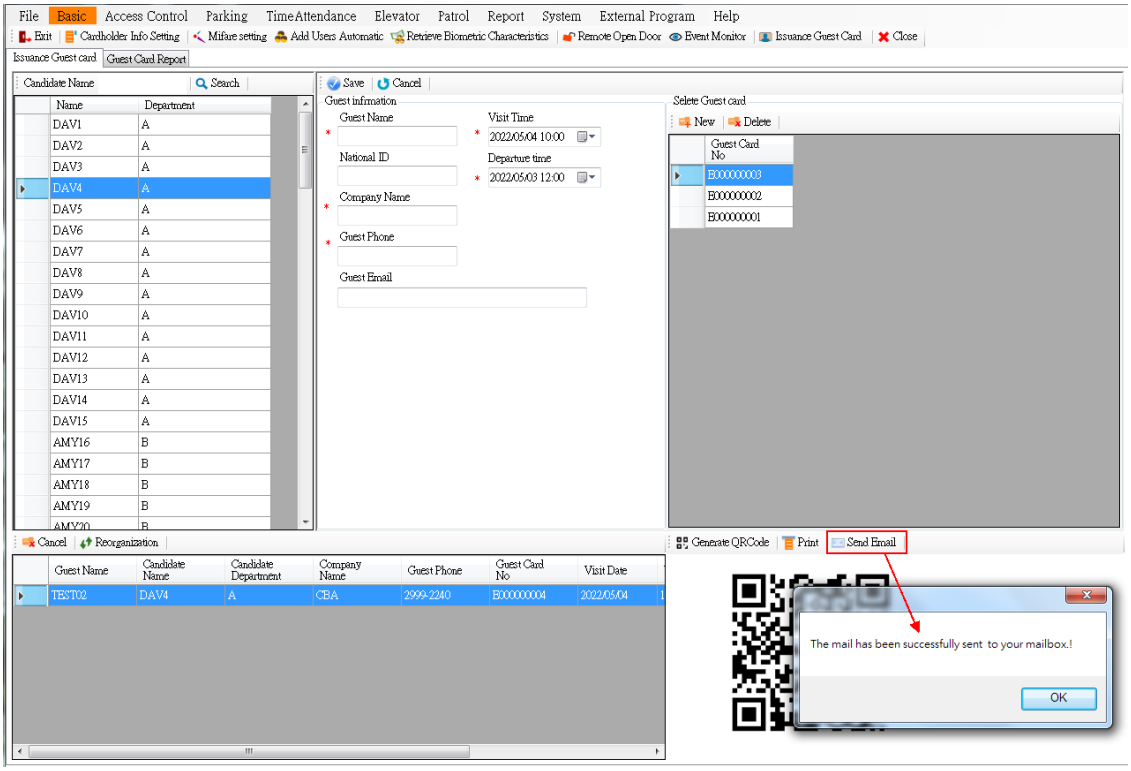


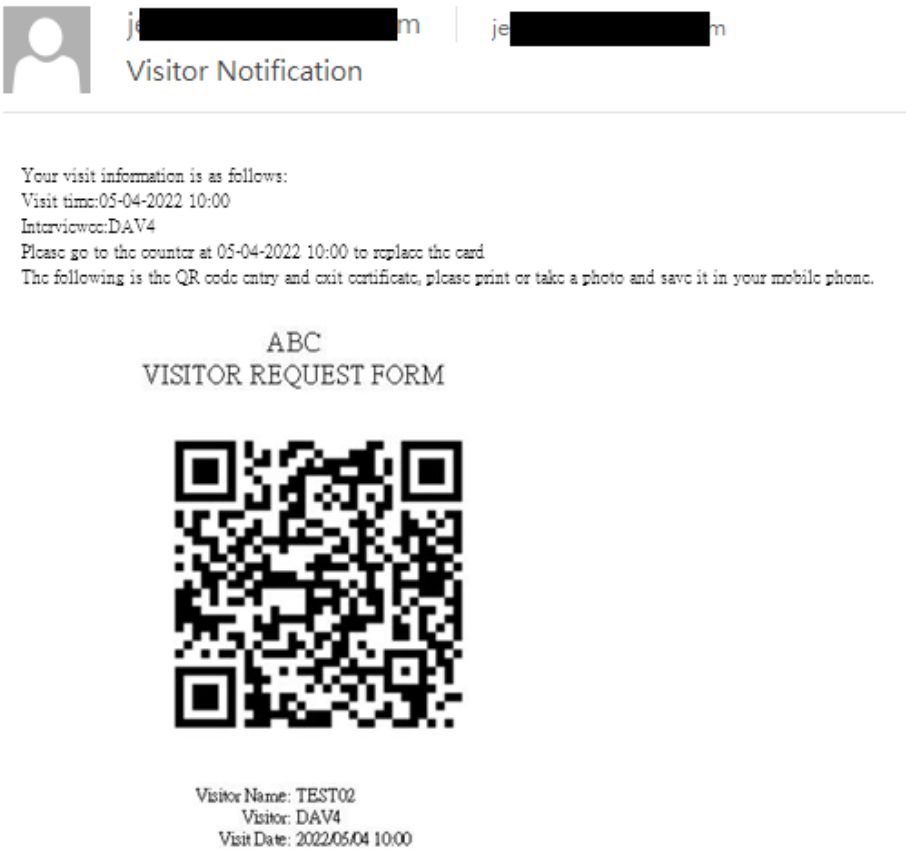
9. Click the guest data, and click “Generate QR Code” to issue a QR Code for printing and emailing.



10. Click “Send Email” to email QR Code to the guest.

    Note: The email can be sent only when the guest information has been filled in email field.





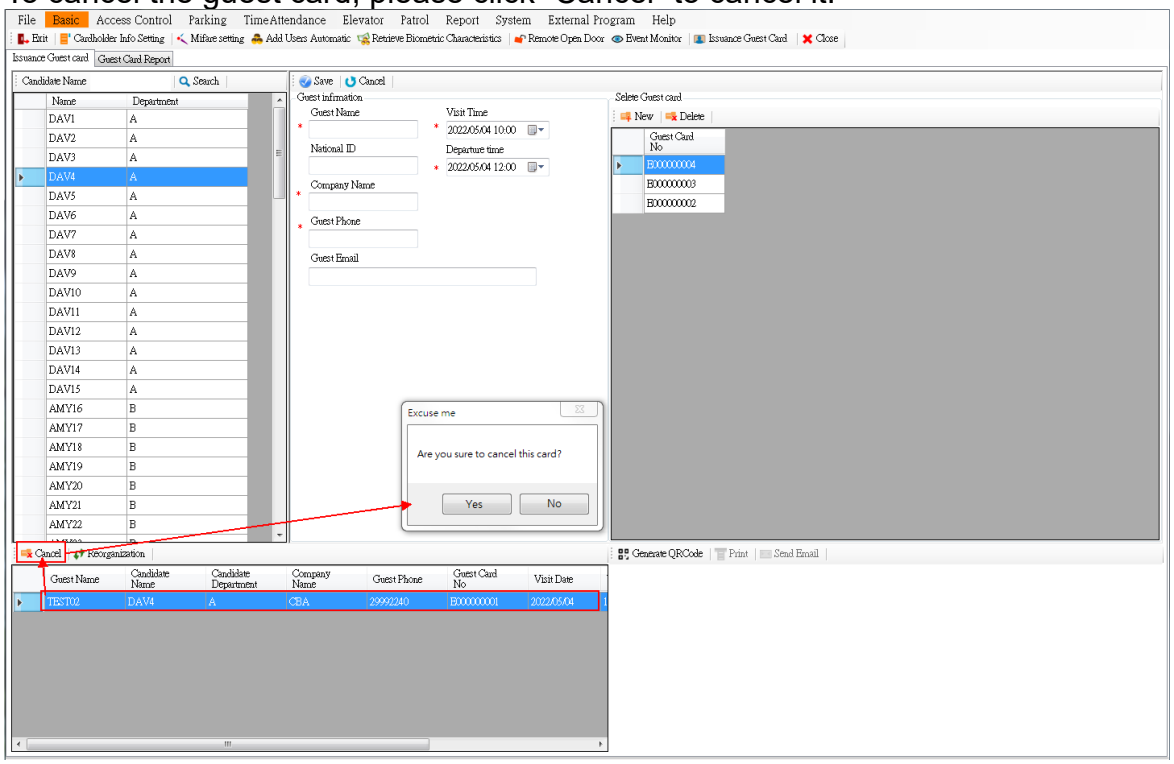
Visitor Notification

Your visit information is as follows:
Visit time:05-04-2022 10:00
Interviewee:DAV4
Please go to the counter at 05-04-2022 10:00 to replace the card.
The following is the QR code entry and exit certificate, please print or take a photo and save it in your mobile phone.

ABC
VISITOR REQUEST FORM

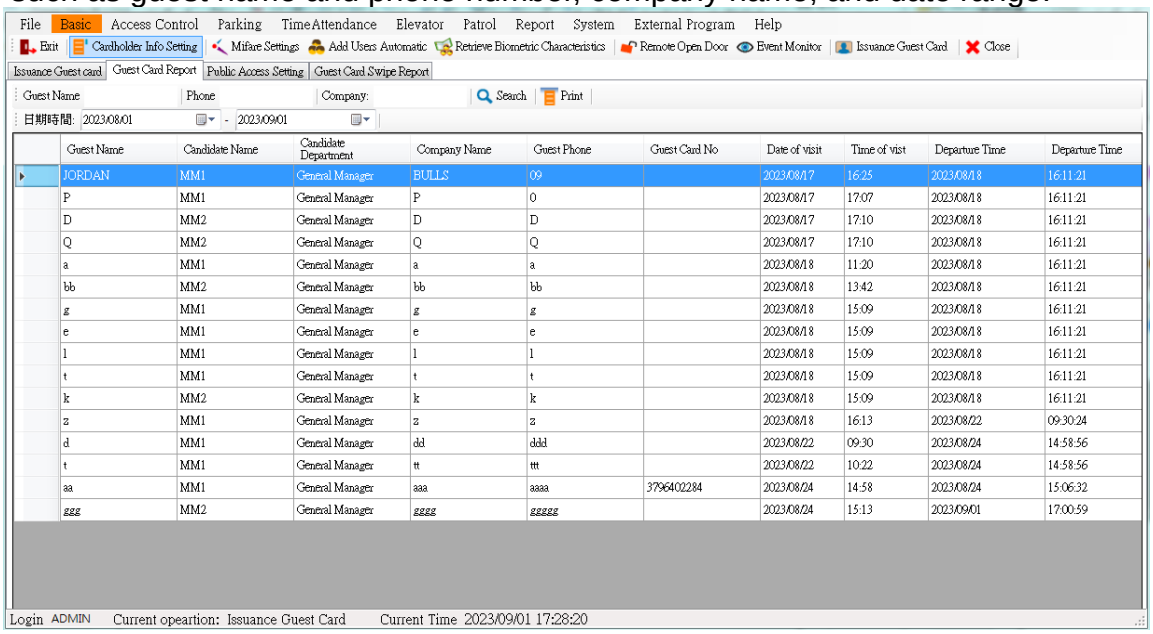
Visitor Name: TEST02
Visitor: DAV4
Visit Date: 2022/05/04 10:00

11. To cancel the guest card, please click “Cancel” to cancel it.



4-5-2 Guest Card Report

Display all guest reservation records, and can preview and print according to query conditions such as guest name and phone number, company name, and date range.



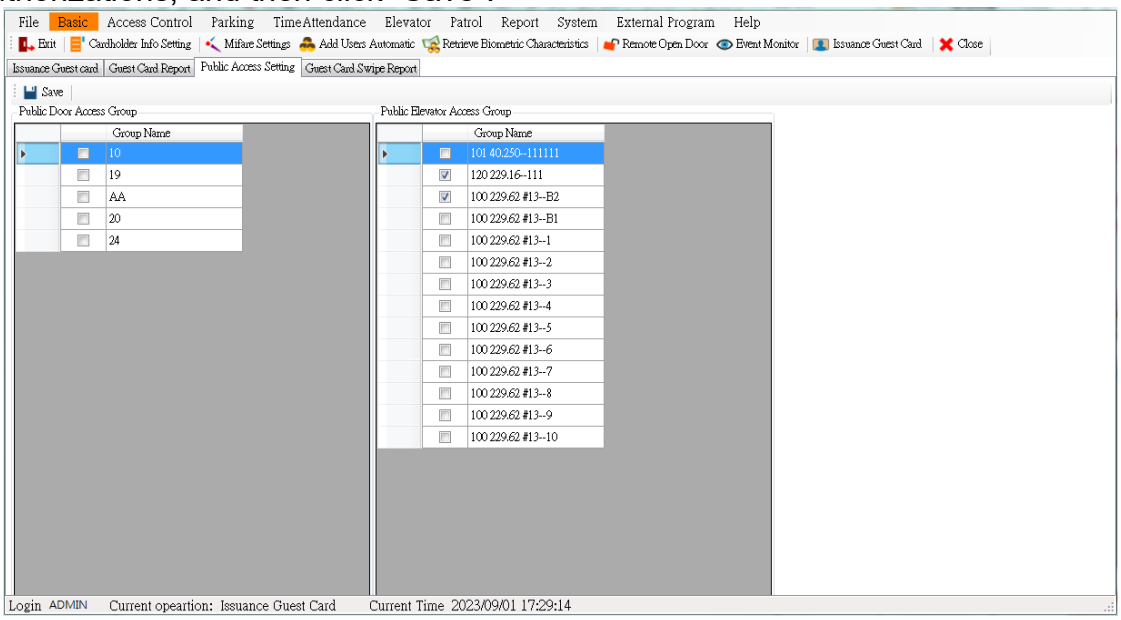
4-5-3 Public Access Setting

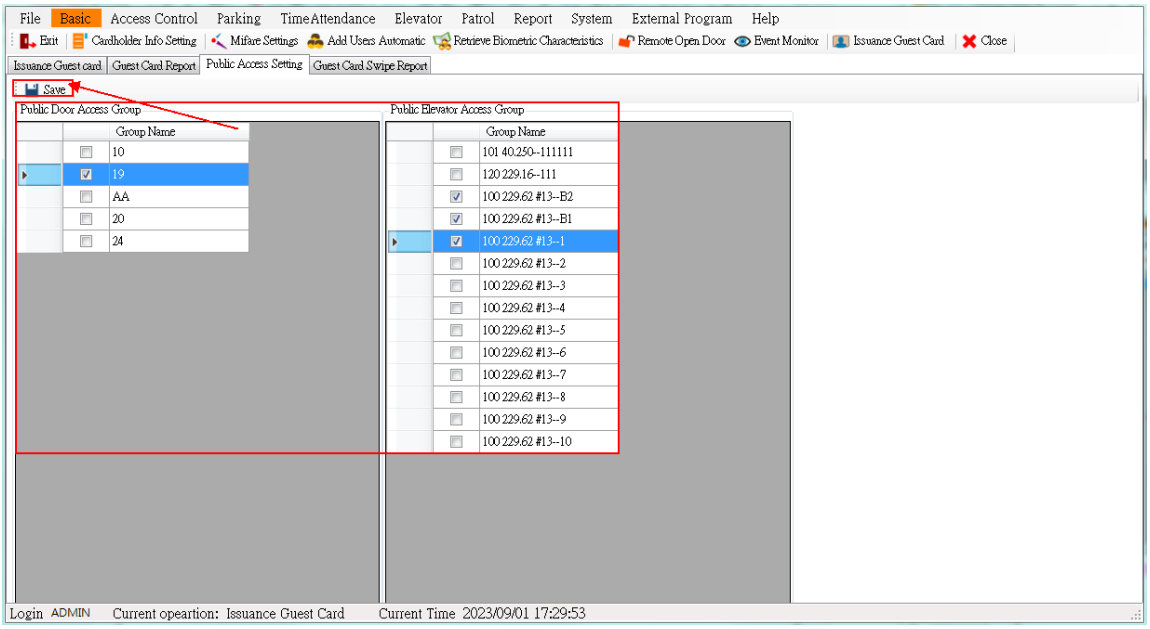
Set up public floor groups.

Before setting, please go to the elevator setting page, add the elevator hardware device, and enable the required floor under the floor setting page.

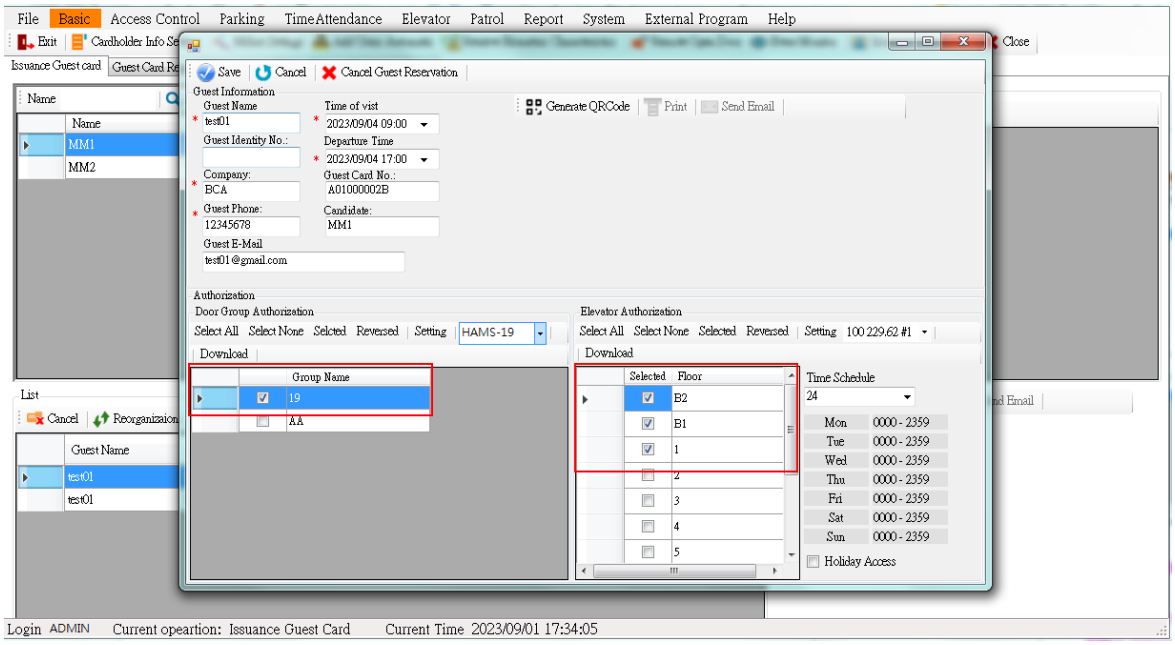
Operation steps:

1. Tick groups in Public Access Door Group or Public Elevator Access Group to set the authorizations, and then click “Save”.



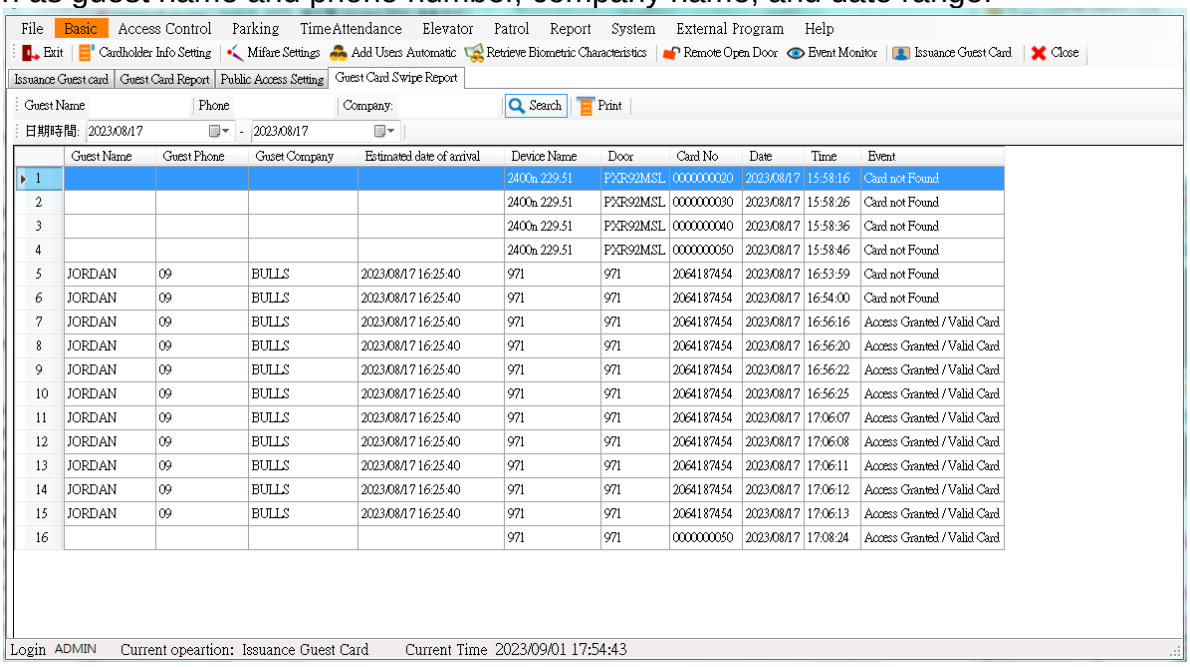


2. When adding a guest card, the system will automatically bring out the authorizations that have been ticked in the public access group and public floor group.



4-5-4 Guest Card Swipe Report

Display all guest card swipe records, and can preview and print based on query conditions such as guest name and phone number, company name, and date range.

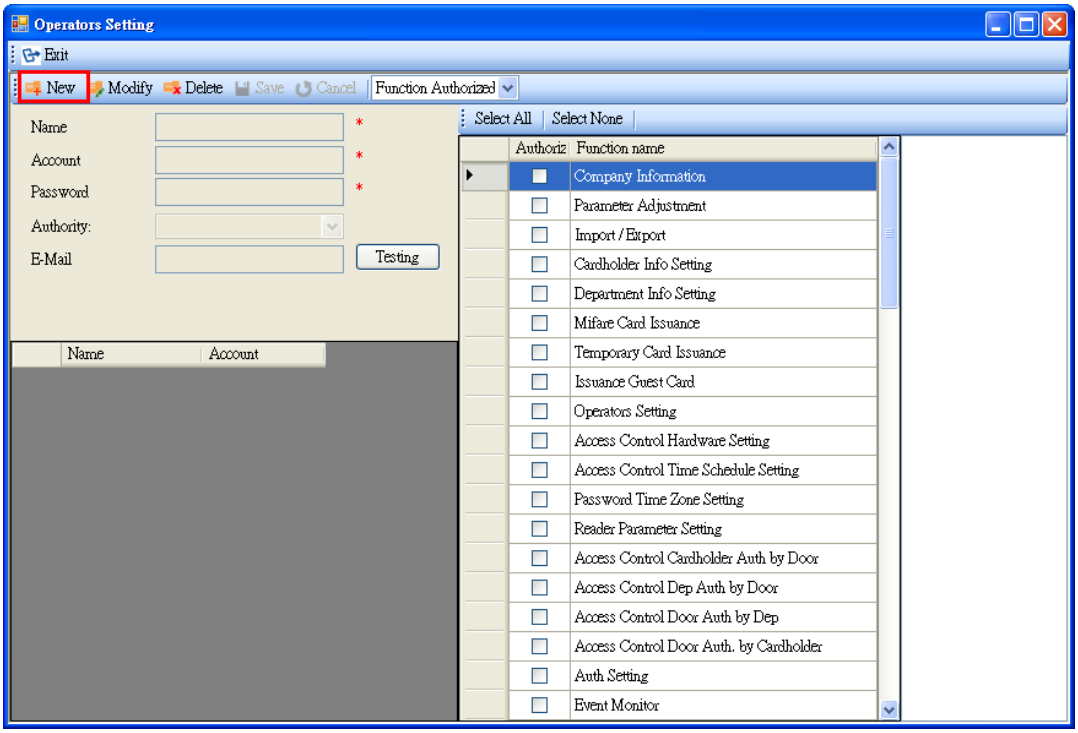


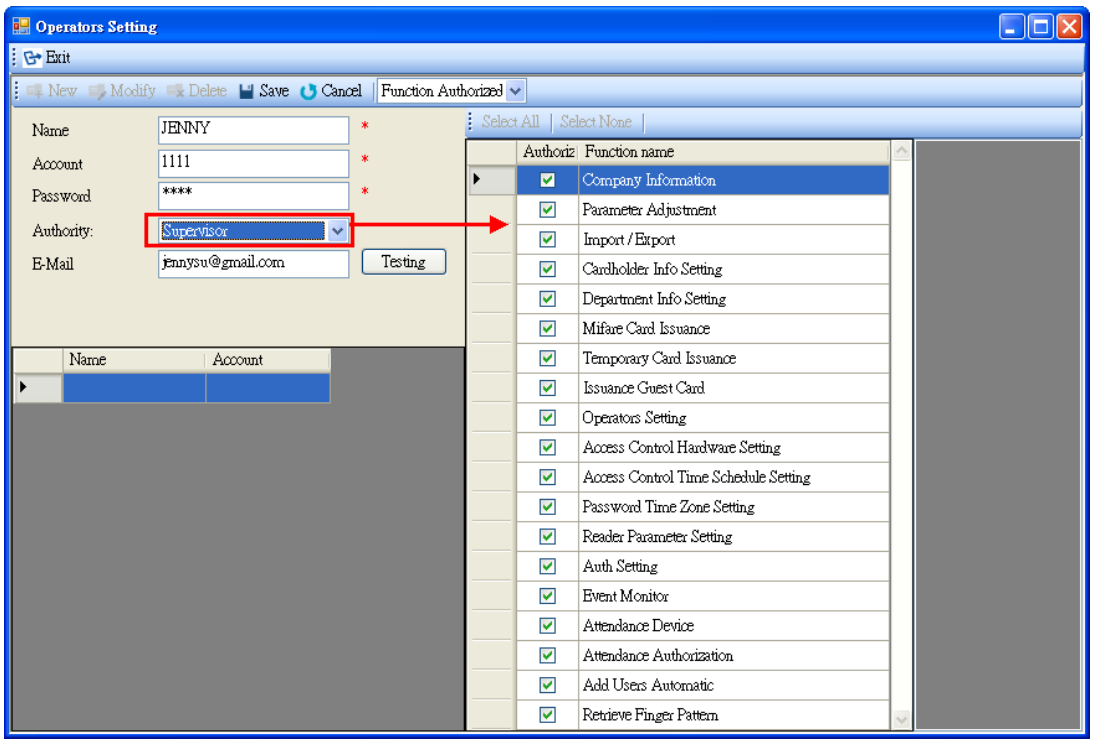
4-6 Operators Setting

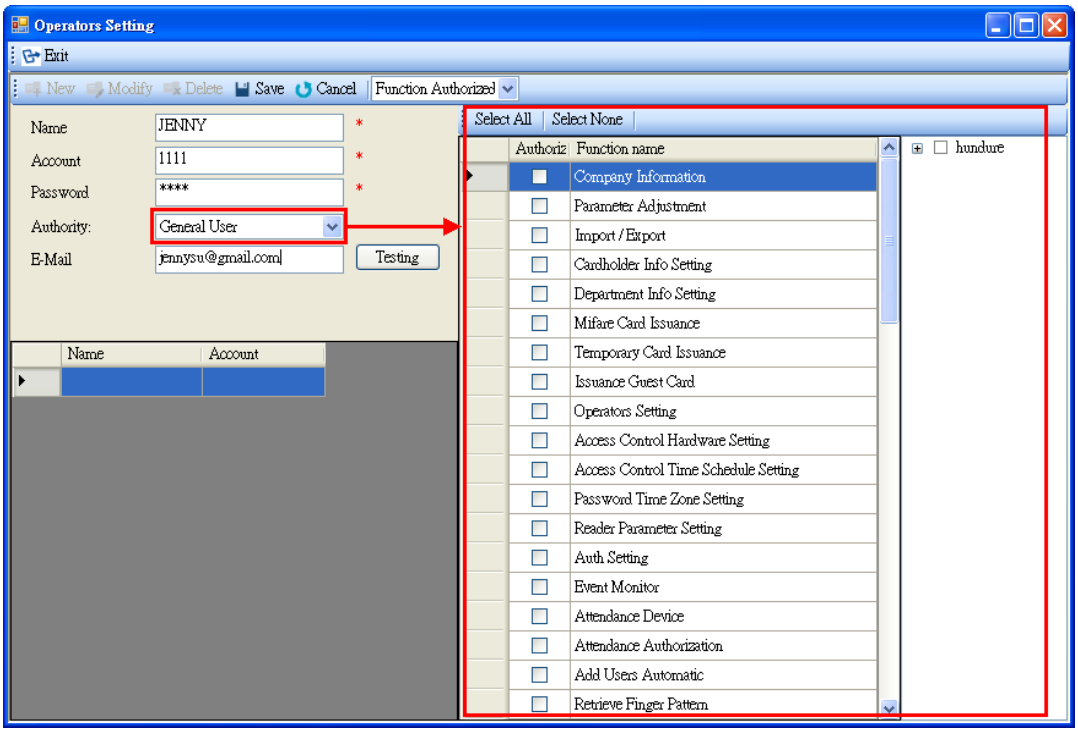
This workspace is allowed to create many accounts with different authorization. Operators will have different authorization to manage the system. The default account ADMIN will not have log in records. We strongly suggest user create a new account.

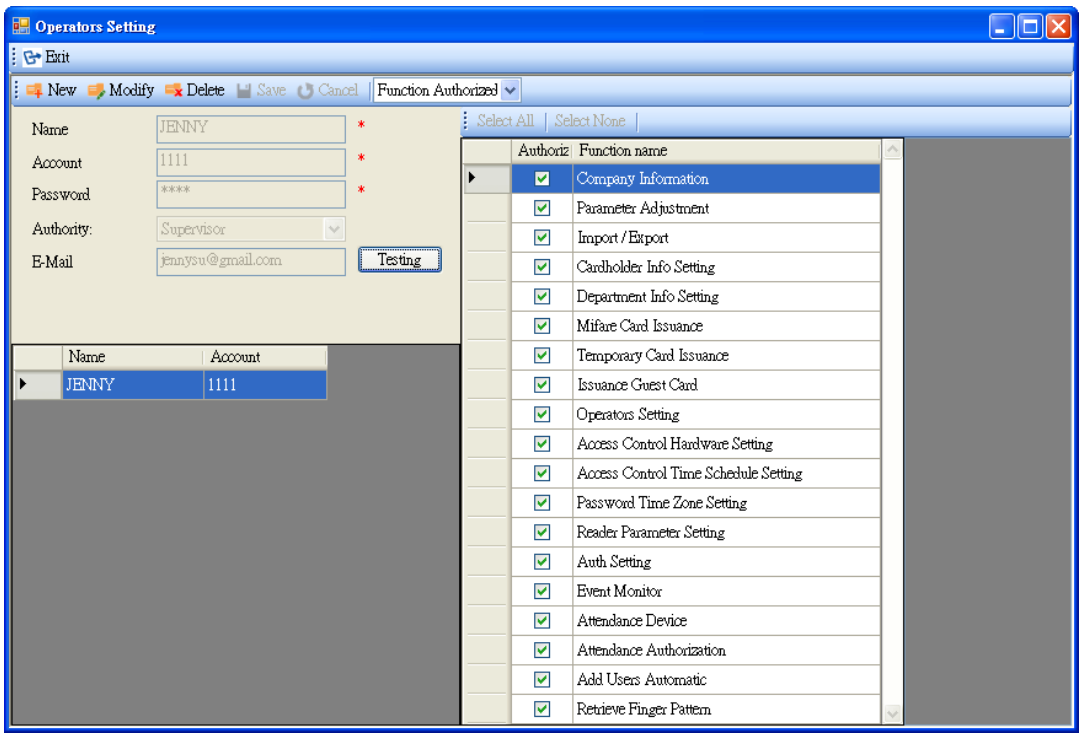
Operation Steps：

1. Click「New」.
2. Input name, account and password.
3. When operation authority is supervisor, all the check boxes will be ticked and original account ADMIN and password ADMIN will lose efficacy automatically. If general user is selected, users need to tick the programs in which the particular user has authorization to execute.
4. When select email notice, please must input email address. And then system will send message to designated mail address automatically when there are events.
5. Tick the box to select the authorization. (General user used only)
6. Click「Save」.

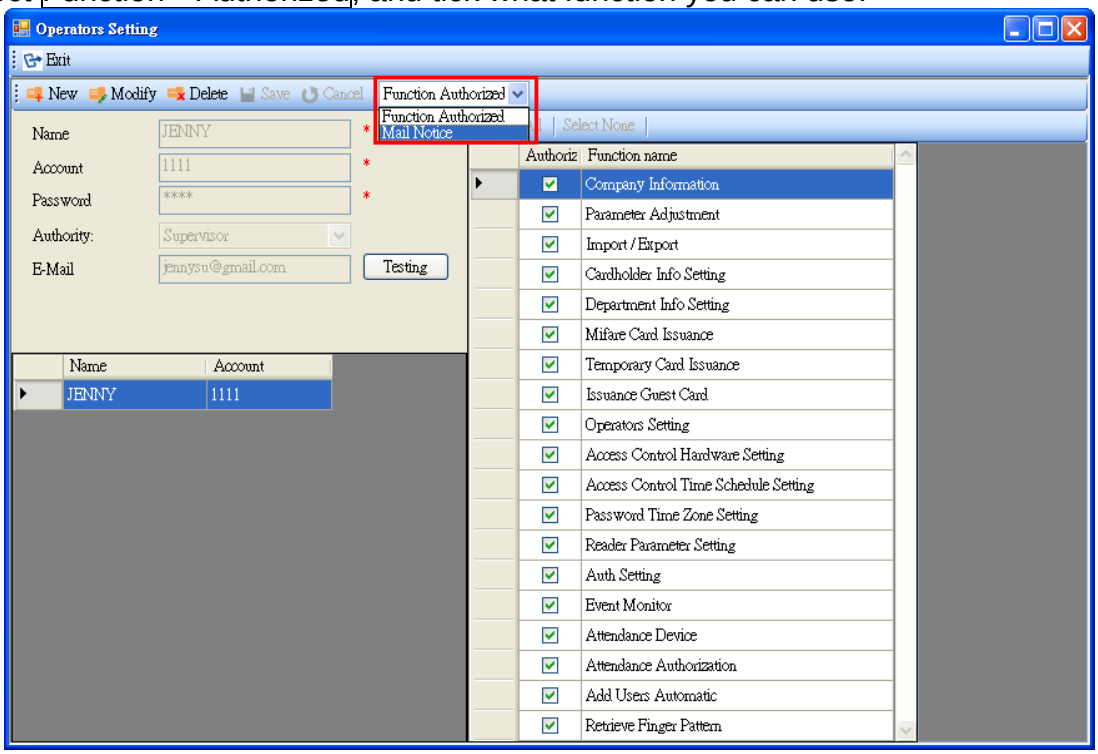



Operators Setting
Exit
New
Modify
Delete
Save
Cancel
Function Authorized
Name
JENNY
Account
1111
Password
****
Authority:
Supervisor
E-Mail
jennysu@gmail.com
Testing
Name
Account
Select All
Select None
Authoriz
Function name
Company Information
Parameter Adjustment
Import / Export
Cardholder Info Setting
Department Info Setting
Mifare Card Issuance
Temporary Card Issuance
Issuance Guest Card
Operators Setting
Access Control Hardware Setting
Access Control Time Schedule Setting
Password Time Zone Setting
Reader Parameter Setting
Auth Setting
Event Monitor
Attendance Device
Attendance Authorization
Add Users Automatic
Retrieve Finger Pattern


Operators Setting
Exit
New
Modify
Delete
Save
Cancel
Function Authorized
Name
JENNY
Account
1111
Password
****
Authority:
General User
E-Mail
jennysu@gmail.com
Testing
Name
Account
Select All
Select None
Authoriz
Function name
hundure
Company Information
Parameter Adjustment
Import / Export
Cardholder Info Setting
Department Info Setting
Mifare Card Issuance
Temporary Card Issuance
Issuance Guest Card
Operators Setting
Access Control Hardware Setting
Access Control Time Schedule Setting
Password Time Zone Setting
Reader Parameter Setting
Auth Setting
Event Monitor
Attendance Device
Attendance Authorization
Add Users Automatic
Retrieve Finger Pattern



7. Select Mail Notice, system will send message to designated mail address automatically when there are events.
8. Select Function Authorized, and tick what function you can use.

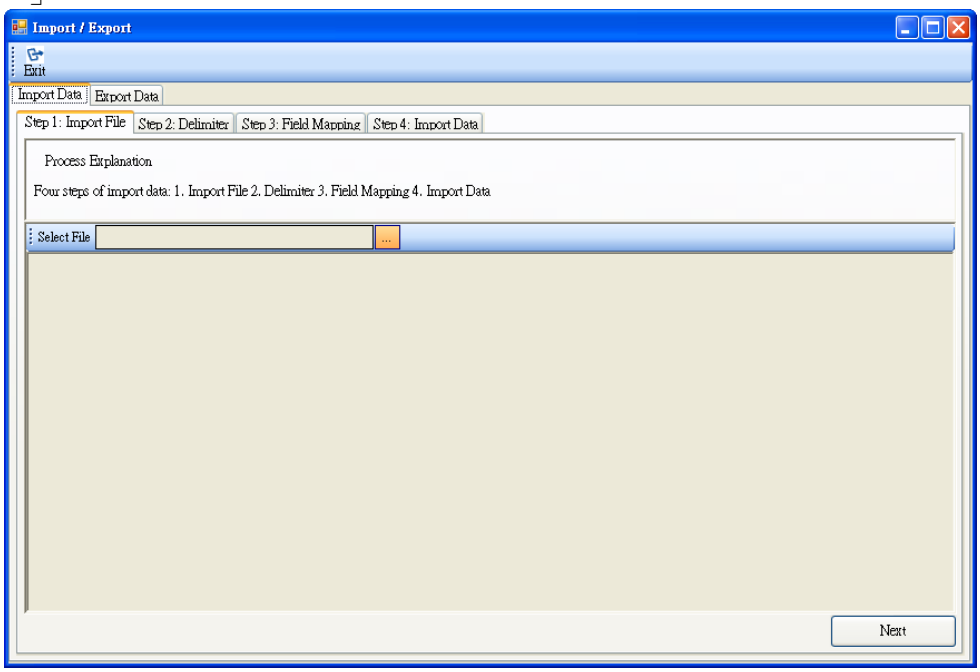


4-7 Import Data / Export Data

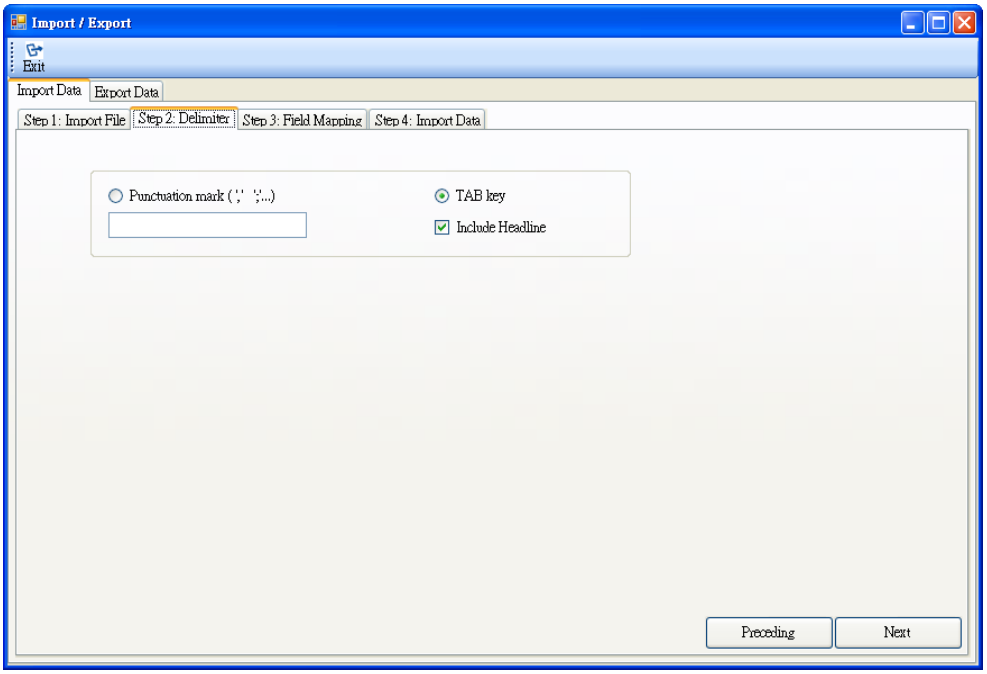
Import and export cardholders' information.

Import Data Operation Steps：

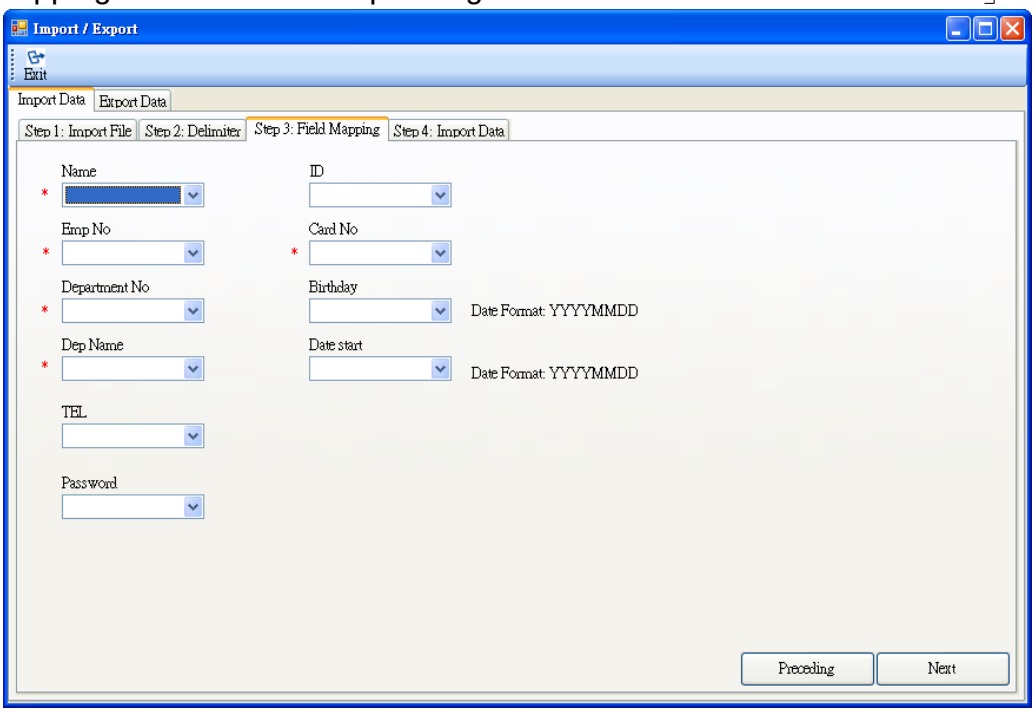
1. Import File：Click key [...] , select the txt file which you want to import and click「Open」then「Next」.



2. Delimiter: Select delimiter or TAB key. If header is requested, tick the check box. Then click「Next」.



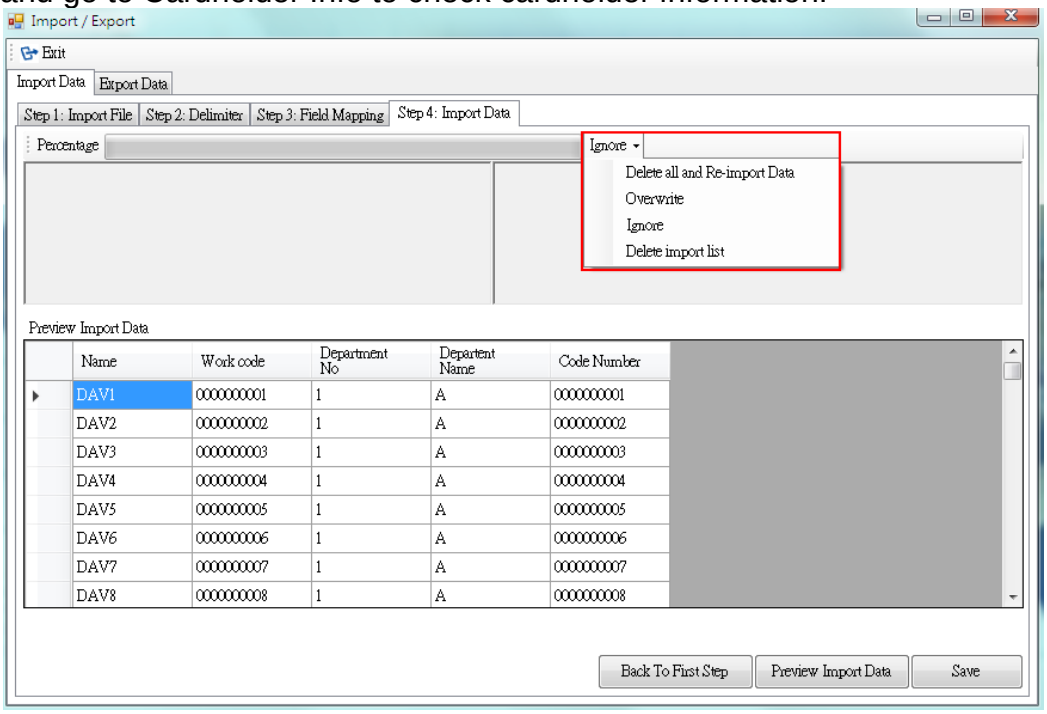
3. Field Mapping: Select the corresponding data for each field and click「Next」.



4. Select the Ignore the repetition

- Delete all and Re-import Data：Delete all current data and using import data.
- Overwrite：Overwrite repeated data
- Ignore：Ignore repeated data
- Delete import list ：Delete the cardholders and authorizations of the imported list.

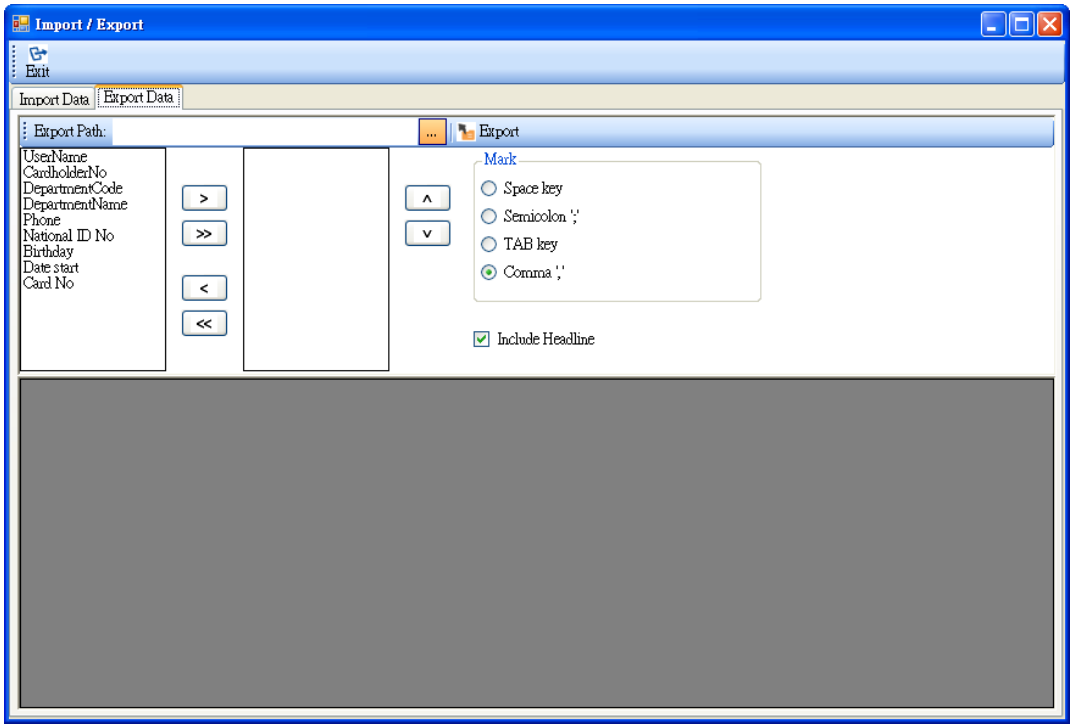
Click [Save] to import the data. When import is completed, please click [OK] to exit the settings and go to Cardholder Info to check cardholder information.



Note: Once import duplicate card number or employee number; system will display data by red color.

Export Data Operation Steps：

1. Click key [...] , select the path which you want to save the TXT file.
2. Using keys [〉] or [》] to select export fields from left to right side. And using keys [^] or [v] to adjust the sequence.
3. Select punctuation mark or TAB key. If header is requested, tick the check box.
4. Click「Export」, the user data has been completed.



5. Access Control

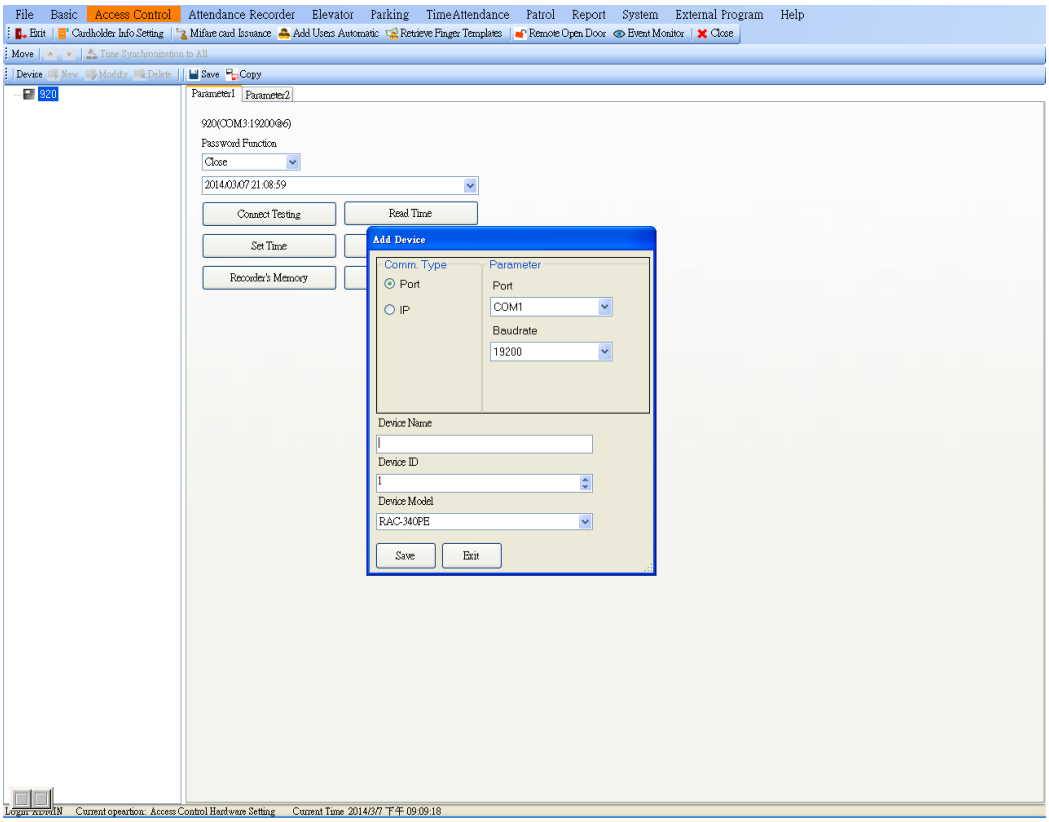
5-1 Access Control Hardware Setting (HAMS-10)

Supports adding, modify and delete device.
Hardware Support List：RAC-340/510/512/520/820/920/930/RAC-A10/SHR-100

5-1-1 Hardware Detail List

Operation Steps：

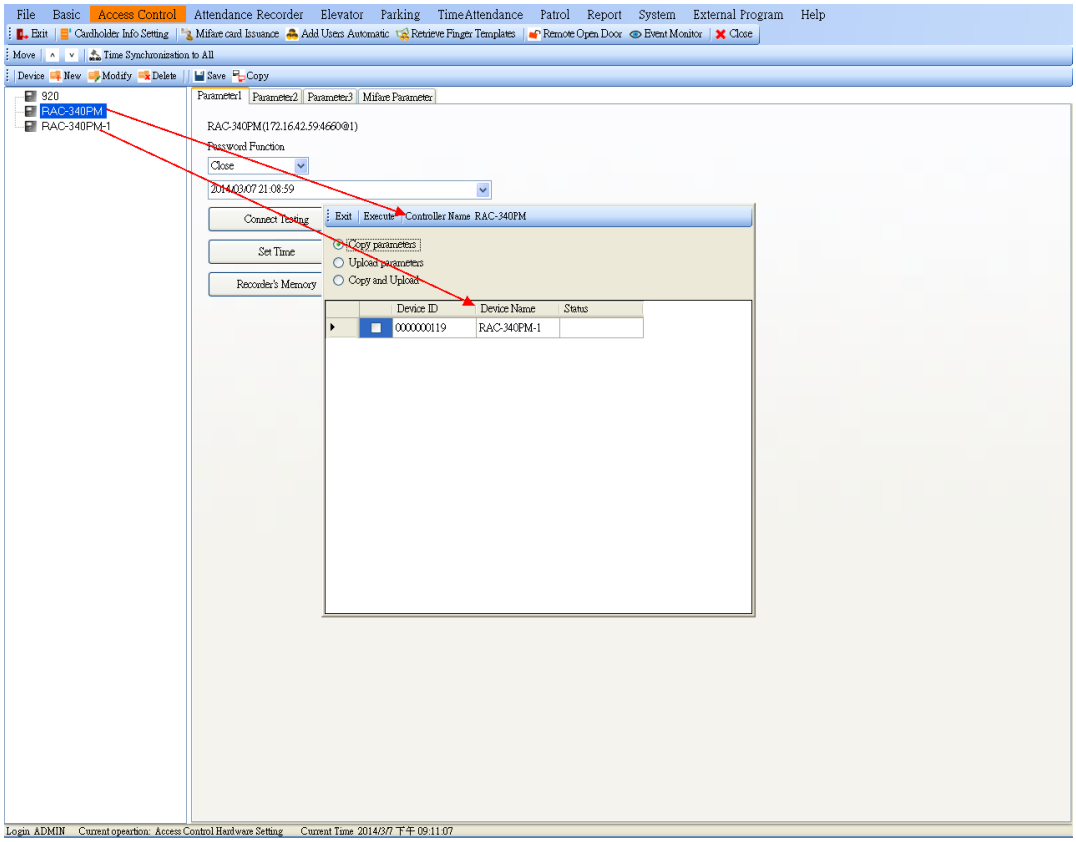
1. Click「New」, then select communication type.
   - Communication Type：Select COM PORT or TCP/IP. When using COM PORT, please make sure the COM PORT number and baud rate is 19200.
2. Input device name and device ID (Default ID is 1).
3. Select device model.
4. Clicking「Save」. Adding completed.



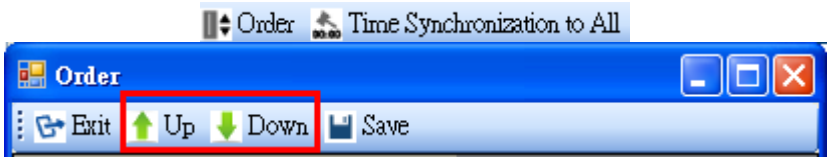
5. Click [Copy] and may copy parameter to other same model machines. (For RAC-340PE /PM only)
   - Copy Parameter: Only copy Siren Timetable to selected same model machines.
   - Upload Parameter: System will upload Siren Timetable to selected RAC-340 indi-

vidually.

- Copy and Upload: System will copy and upload current RAC-340's Siren Timetable to other selected RAC-340.



6 . Click Order may sort the devices.



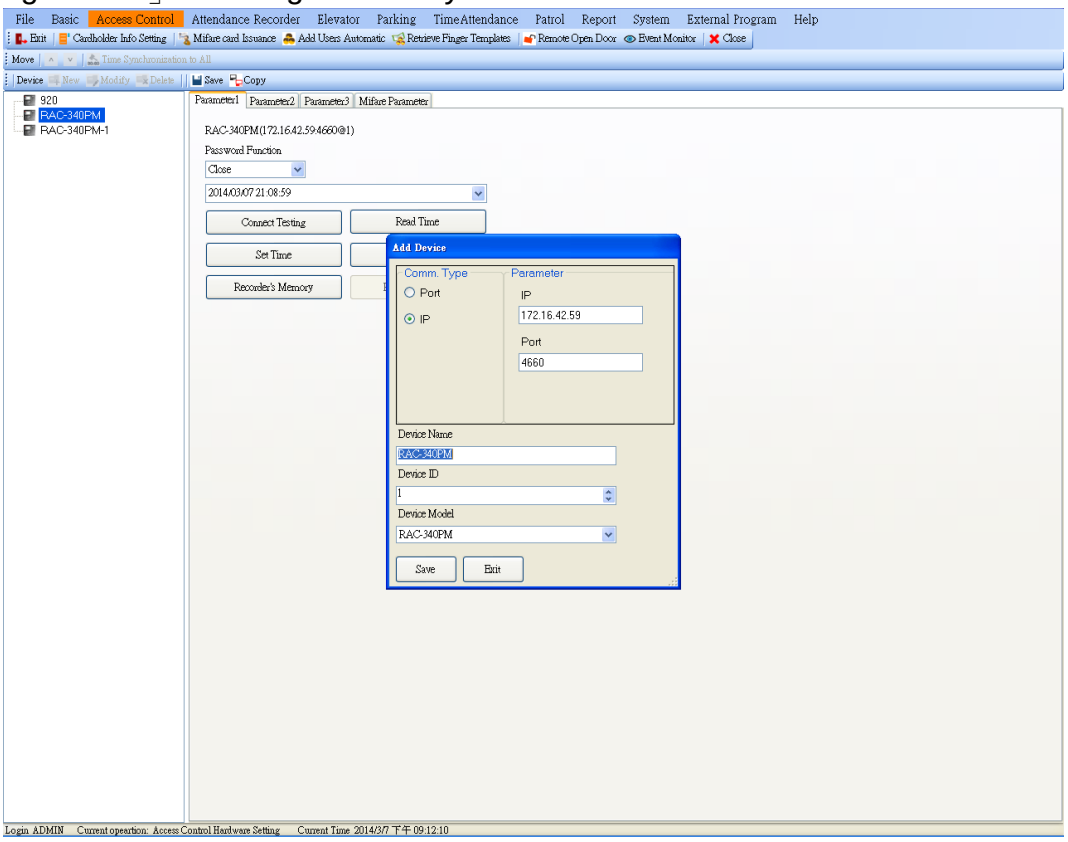
7. Click Time Synchronization to All may correct all devices' time once.
8. Click [Time Sync] to read device time.
   - Time Sync.: Synchronize time by PC
   - Set Time: Input date and time by user.

5-1-2 Modify Connecting information

It is mainly to modify communication parameter, like IP address, port number, device name, and device ID and model selection.

Operation Step：

1. Select the controller on the left side.
2. Click「Modify」.
3. Modify the setting. For example: comm. type, device name and device ID.
4. Clicking「Save」to saving the modify.



5-1-3 Parameter 1

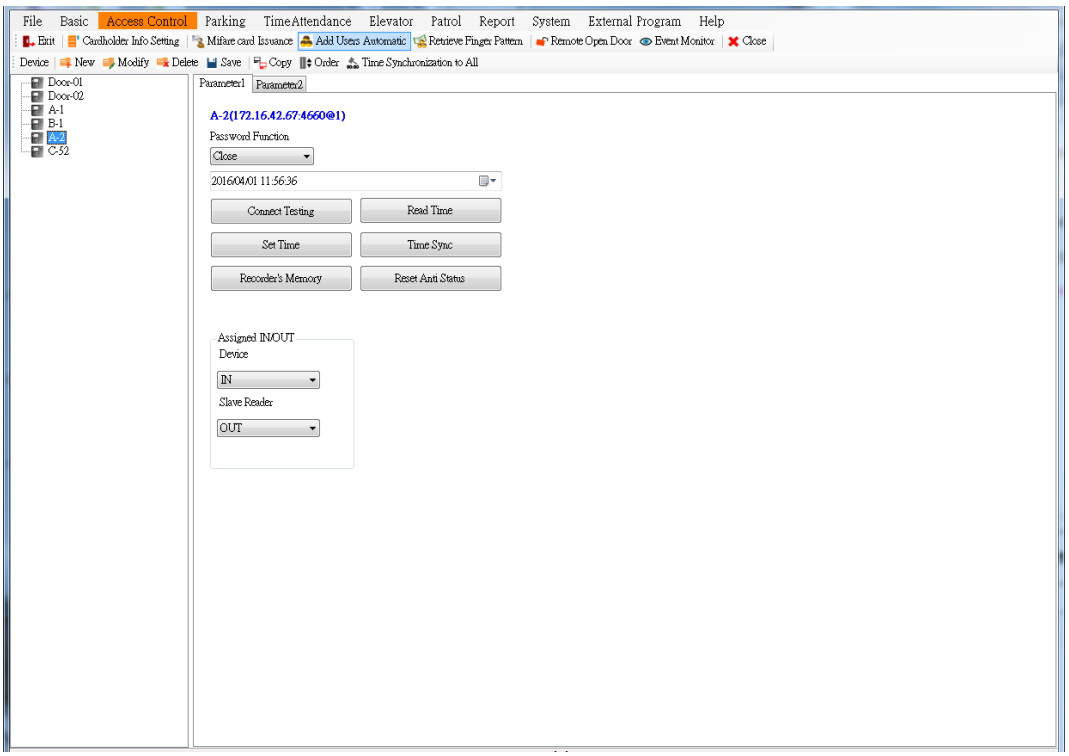
It is mainly allow operator to check if device is communication with software successful by synchronize or read version.

Operation Steps：

1. Select the controller on the left side.
2. Click「Connect Testing」. If system connects with hardware successfully, you will read model name, version, sensors and relays status. If connect failed, system will appear a fail notice as below.

Other parameter contents：

- Password Function：If request access by card and password, please tick this check box, then system may download password to device. And please also remember to input password in cardholder information, otherwise users can still access by card only. Default is close which means do not need download password to device.
- Read Time：Read device time. If reading successfully, system will show date and time.
- Set Time：Input date and time by user.
- Time Sync：Synchronize time by PC. Please make sure the PC's date and time are correct.
- Recorder's Memory：System will show current valid card and event amount.
- Reset Anti Status：Refresh anti pass back status. (Only for RAC-520v3.00 above. RAC-820/RAC-920/RAC-930 and RAC-A10 series)
- Assigned IN/OUT： Assigned In and out of controller and slave reader. (Only for RAC-920/930/RAC-A10 series)


File
Basic
Access Control
Parking
TimeAttendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare card Issuance
Add Users Automatic
Retrieve Finger Pattern
Remote Open Door
Event Monitor
Close
Device
New
Modify
Delete
Save
Copy
Order
Time Synchronization to All
Door-01
Door-02
A-1
B-1
A-2
C-52
Parameter1
Parameter2
A-2(172.16.42.67:4660@1)
Password Function
Close
2016/04/01 11:56:36
Connect Testing
Read Time
Set Time
Time Sync
Recorder's Memory
Reset Anti Status
Assigned IN/OUT
Device
IN
Slave Reader
OUT

5-1-4 Parameter 2

Modify device parameters.
Operation Steps：

1. Select the controller on the left side.
2. Click「Read」to get back current parameter values of controller.
3. Modify the parameter value.
4. Click「Set」to set all parameters to controller.

Parameter contents：

- Exit Button Status：Reverse exit button active level. Default is NO.
- Door Sensor Status：Reverse door sensor active level. Default is NC.
- Detect Door Status: It is mainly to detect whether door has closed before the deadline. If the door is not close before deadline, alarm or device beeps will be activated to remind the user to close the door. This function need work with [Door Sensor Detection Time] and [Door sensor detect mode].
- Detect Forced Door：Activate alarm when door open under forced.
- Door Sensor Detection Time：It is mainly to set the duration of door's status. Default value is 0 which is deactivated. Once the time is set, if the door opens longer then preset time, alarm or device may make sound.
- Door Sensor Detect Mode：Select controller beeps or alarm activate when door open time has expired. This function should works with 「Door sensor Detection Time」.
  e.g.: Setting: Door open time is 4 seconds .Alarm action time is 5 seconds. Door detection time is 10 seconds. Door detection and warning mode. Set to be Alarm Relay.
  Description：After a door opens, it will auto re-lock within 4 seconds. If the door is not closed properly that causes failing to auto re-lock, it will start counting 10 seconds. After 10 seconds, if the door still left open, it will trigger alarm for 5 seconds. The trigger mode is Alarm Relay.
- Unlock Door Relay Action Time：The duration of door relay action. Default is 4 seconds.
- Alarm Action Time：The duration of alarm action. Default is 0 second.
- Compare Valid Code Index：The index digit of compare valid card number. This function should work with 「Compare Valid Code Length」.
- Compare Valid Code Length：How many digits you want to compare.
  Ex: Card number is 1234567890. If compare index is 1, compare length is 3. Valid

cards with number starting with 123 will be granted access.

- Alarm Relay Mode：Alarm relay mode selection. (Only for SHR-100)
  - Bell Mode：Only activate bell. Do not have alarm function.
  - Anti-duress Mode：Pressing the bell button and swipe a valid card, alarm will activate after 3 seconds. Do not have bell function if selected this mode.
  - Alarm Mode：Activate alarm by disarm code. Do not have bell function if selected this mode.
- Operation with voice：Allow the user open or close voice function in the Ready status. status.(Only for SHR-100)
- Setup mode with voice：Allow the user open or close voice function in the function setting status.(Only for SHR-100)
- Save Invalid card Records: Store or not store invalid card records selection. Default is NO.
- Request Password of Slave Reader：Request swipe card and then press password when access by slave reader (Only for RAC-520v3.00 above. RAC-820/RAC-920/ RAC-930 and RAC-A10 series)
- Anti-pass back Function：Close or open anti-pass back function. Default is close. (Only for RAC-520v3.00 above. RAC-820/RAC-920/RAC-930 and RAC-A10 series)
  Anti- pass back management: Main controller is for in and slave reader is for out. This function requests user swipe card in main controller for in and must swipe card in slave reader for out. Otherwise, user cannot swipe card in main controller again.
- Display Card No Method：LCD will display card digits or *** after card swiped. (Only for RAC-340)
- Select LCD Language：Select LCD display language. Now supports English, Traditional or Simplified Chinese. (Only for RAC-340)
- Open door when swipe Master Card：Select to open door or not when swipe master card. Default is close.
- Re-swipe Card Check Time：When swiping a card more than once within preset time, access deny and controller will make beeps and system does not record the event. (0~255 seconds)
- Door Open Mode：
  - Card Only：Swipe card only.
  - Card/Code：Input card number.
  - Card/Code with password：Swipe card first and then input password or input card and password.
- Valid Card Mode：Default mode is standard mode.

- Standard Mode：Open door by right Mifare key and valid card.
- Random Mode 1：Open door by right Mifare key, system will not save swipe card records.
- Random Mode 2：Open door by right Mifare key. System will save swipe card records. But when card format is unidentified character, system will not save swipe card records. When you add card no by command 1 and select Random Mode 2, the cards will become blacklist and will activate alarm when you swiped card. If you want to get blacklist records, please select “save” of command 31.

Note: Valid card numbers and events will be deleted if changed the mode.

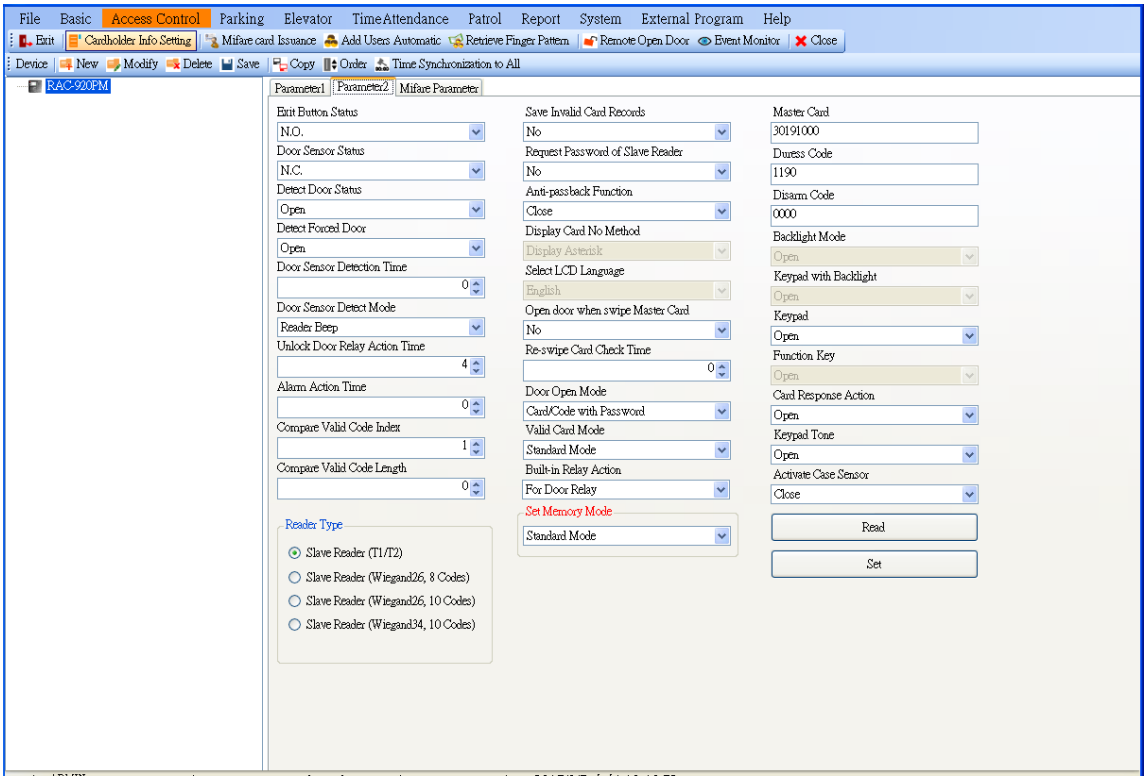
- Built-in Relay Action：Select built in relay is for lock or bell. (Only for RAC-820/RAC-920/RAC-930 and RAC-A10 series)
- Set Memory Mode：Except SHR-100, all controllers’ default are standard mode
  - Standard Mode：Support 1,024 card numbers with password and 800 events.
  - Compressed Mode：Support 1,400 compressed card numbers with password and 1,800 events.
  - Shared Mode：Support 65,535 card numbers without password and 1,800 events.

Note: Valid card numbers and events will be deleted if changed the mode.

- Master Card：Required to enter command mode of controller. Default number is 30191000. Kindly refer to hardware manual for more commands information.
- Duress Code：Alarm will be activated and door will be opened upon pressing duress code. Default code is 1190.
- Disarm Code：Deactivate the alarm after disarm code is inputted. Default code is 0000.
- Backlight Mode：Open or close LCD backlight. (Only for RAC-340)
- Keypad with Backlight：Open or close keypad backlight. (Only for RAC-340)
- Keypad：Enable or disable keypad function.
- Enable Function Key：Enable or disable function keys. (Only for RAC-340)
- Card Response Action：Cannot read card if select close.
- Keypad Tone：Open or close keypad tone.
- Activate Case Sensor：When case is tampered, controller will make beep sound or not.
- Reader Type：(Only for RAC-920PM-W and RAC-A10)

  If reader type is different from current slave reader, system is not able to retrieval events from slave reader.
  - Slave Reader (T1/T2): Slave reader supports T1/T2 interface. Reader will send 10 digits back to program.
  - Slave Reader (Wiegand 26, 8 codes): Slave reader supports Wiegand 26 inter-face. Reader will send 8 digits back to program.

- Slave Reader (Wiegand 26, 10 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program and program add 00 in front of number automatically and display 10 digits to users.
- Slave Reader (Wiegand 34, 10 codes): Slave reader supports Wiegand 34 interface. Reader will send 10 digits back to program.



5-1-5 Parameter 3

This workspace is mainly set Siren time schedule and only for RAC-340 series.

Operation Steps：

1. This page only for RAC-340 series.
2. Select the RAC-340 which wants to setting on the left side.
3. Click「Read」to get back current parameter values.
4. Modify the parameter value.
5. Click「Set」to set all parameters to controller.

Parameter contents：

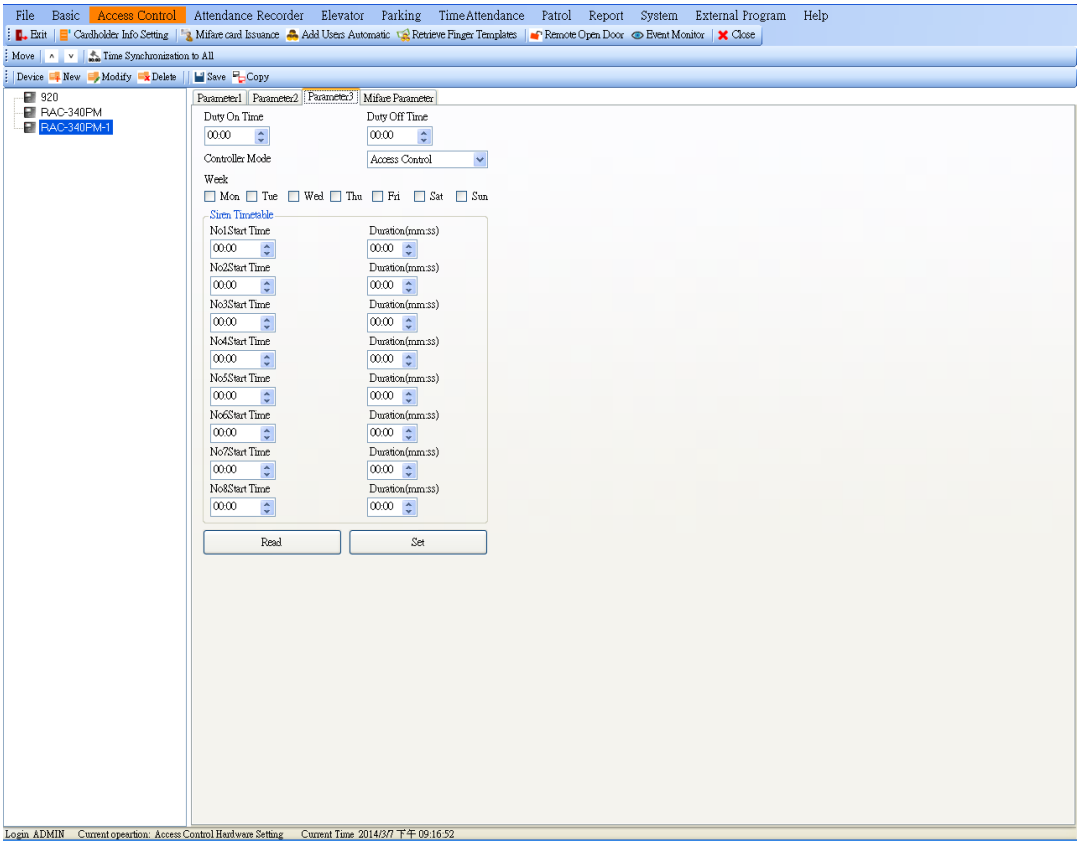
Duty On Time：The time starts to work. LCD screen will display IN.

Duty Off Time：The time can leave. LCD screen will display OUT.

Controller Mode：Access Control or Time Attendance selection. Default is access control mode without siren. Select time attendance mode if want to activate siren timetable.

Week：Select the weekdays to activate siren.

Siren Timetable：8 time groups. Enter start time at 08:00 and duration 01:10. It means that siren will be activated in 08:00AM for 1 minute and 10 seconds.



5-1-6 Parameter 1 (RAC-510/HAC-510/ HAC-512/HAC-C2)

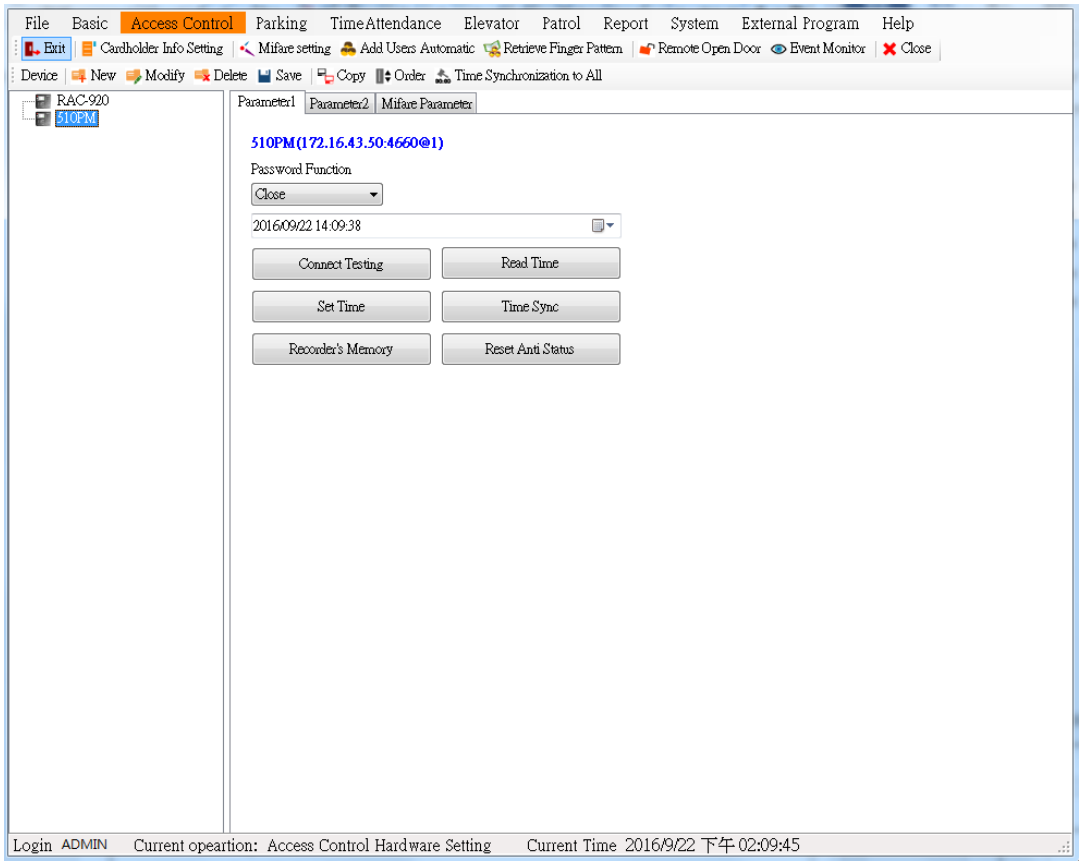
Reading or synchronize device time.

Operation Steps：

1. Select the controller on the left side.
2. Click「Connect Testing」. If system connects with hardware successfully, you will read model name, version, sensors and relays status. If connect failed, system will appear a fail notice as below.

Other parameter contents：

- Password Function：Request if system need download password to device. Default is closed. (Not support HAC-C2 Series)
- Read Time：Read device time. If reading successfully, system will show date and time.
- Set Time：Input date and time by user.
- Time Sync：Synchronize time by PC.
- Recorder's Memory：System will show current valid card and event amount.
- Reset Anti Status：Refresh anti pass back status. (Only for RAC-510/HAC-510 series RAC-520v3.00 above.RAC-820/RAC-920 and RAC-930 series)


File
Basic
Access Control
Parking
TimeAttendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare setting
Add Users Automatic
Retrieve Finger Pattern
Remote Open Door
Event Monitor
Close
Device
New
Modify
Delete
Save
Copy
Order
Time Synchronization to All
RAC-920
510PM
Parameter1
Parameter2
Mifare Parameter
510PM(172.16.43.50:4660@1)
Password Function
Close
2016/09/22 14:09:38
Connect Testing
Read Time
Set Time
Time Sync
Recorder's Memory
Reset Anti Status
Login ADMIN
Current opeartion: Access Control Hardware Setting
Current Time 2016/9/22 下午 02:09:45

5-1-7 Parameter 2 (RAC-510/HAC-510/HAC-512/HAC-C2)

Modify device parameters.

Operation Steps：

1. Select the controller on the left side.
2. Click「Read Parameter」to get back current parameter values of controller.
3. Modify the parameter value.
4. Click「Se Parameter」to set all parameters to controller.

Parameter contents：

【Door Control】

- Save Invalid card Records: Store or not store invalid card records selection. Default is NO.
- Master Card：Required to enter command mode of controller. Default number is 30191000. Kindly refer to hardware manual for more commands information.
- Disarm Code：Deactivate the alarm after disarm code is inputted. Default code is 0000.
- Duress Code：Alarm will be activated and door will be opened upon pressing duress code. Default code is 1190.
- Activate Alarm Relay Under Duress：The alarm relay will be activated if the user is under duress
- Anti-pass back Function：Close or open anti-pass back function. Default is close. (Only for RAC-510/HAC-510 series,RAC-520v3.00 above. RAC-820/RAC-920 and RAC-930 series)

  Anti- pass back management: Main controller is for in and slave reader is for out. This function requests user swipe card in main controller for in and must swipe card in slave reader for out. Otherwise, user cannot swipe card in main controller again.
- Door Open Mode：
  - Card Only：Swipe card only.
  - Card/Code：Input card number.
  - Card/Code with password：Swipe card first and then input password or input card and password. (Not support HAC-C2 Series)
- Re-swipe Card Check Time：When swiping a card more than once within the preset time, access deny and controller will make beeps and system does not record the event. (0~255 seconds)
- Primary Reader Password Check Time Schedules: Enable or disable. Need to check password additionally when setting the primary reader In/Out function. (Only for

HAC-512 Series)

- Slave Reader Password Check Time Schedules：Enable or disable. Need to check password additionally when setting the slave reader In/Out function. (For HAC-512 Series)

【Slave】

If reader type is different from current slave reader, system is not able to retrieval events from slave reader.

- Slave Reader (T2): Slave reader supports T2 interface. Reader will send 10 digits back to program.
- Slave Reader (Wiegand 26, 8 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program.
- Slave Reader (Wiegand 26, 10 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program and program add 00 in front of number automatically and display 10 digits to users.
- Slave Reader (Wiegand 34, 10 codes): Slave reader supports Wiegand 34 interface. Reader will send 10 digits back to program.

【Primary Reader In/Out Setting】：Set to primary reader In/Out function.

【Slave Reader In/Out Setting】：Set to slave reader In/Out function. (Only for HAC-512 /HAC-C2 Series)

【Push Button with voice】：When pressing the push button to open the door, controller will make a ”beep” sound.

【Door I/O Parameter】

- Unlock Door Relay Mode：(Only for HAC-512 Series)
  - Pulse time (sec.): After Door Relay acts, it will recover in a preset time (seconds). The default is 4 seconds; it means the unlocked door will relock after 4 seconds. (Need to work within the time of door unlock)
  - Toggle：After Door Relay acts，it needs to trigger it again to recover.
- Unlock Door Relay Action Time：The duration of door relay action. Default is 4 seconds.
- Alarm Mode：(Only for HAC-512 Series)
  - Pulse time (second): After Alarm Relay acts，it will recover in a preset time

(seconds). (Need to work within Alarm action time)

- Toggle：After Alarm Relay acts，it needs to trigger it again to recover.
- Latch：After Alarm Relay acts，it needs to enter disarm code to recover.

- Alarm Action Time：The duration of alarm action. Default is 0 second.
- Exit Button Status：Reverse exit button active level. There are 3 statuses：Short Circuit Action, Open Circuit Action, and Closed Circuit Action.
- Activate Case Sensor：When case is tampered, controller will make beep sound or not.
- Door Sensor Status：Reverse door sensor active level. There are 3 statuses：Short Circuit Action, Open Circuit Action, and Closed Circuit Action .
- Door Sensor Detection Time：Sets the duration of door's status. Default value is 0 which is deactivated. The time is started when door rely off. Once the function is activate, detect door status function may work.
- Door Sensor Detect Mode：Select controller beeps or alarm activate when door open time has expired. This function should works with 「Door sensor Detection Time」.
  e.g.: Setting: Door open time is 4 seconds .Alarm action time is 5 seconds. Door detection time is 10 seconds. Door detection and warning mode. Set to be Alarm Relay.
  Description：After a door opens, it will auto re-lock within 4 seconds. If the door is not closed properly that causes failing to auto re-lock, it will start counting 10 seconds. After 10 seconds, if the door still left open, it will trigger alarm for 5 seconds. The trigger mode is Alarm Relay.

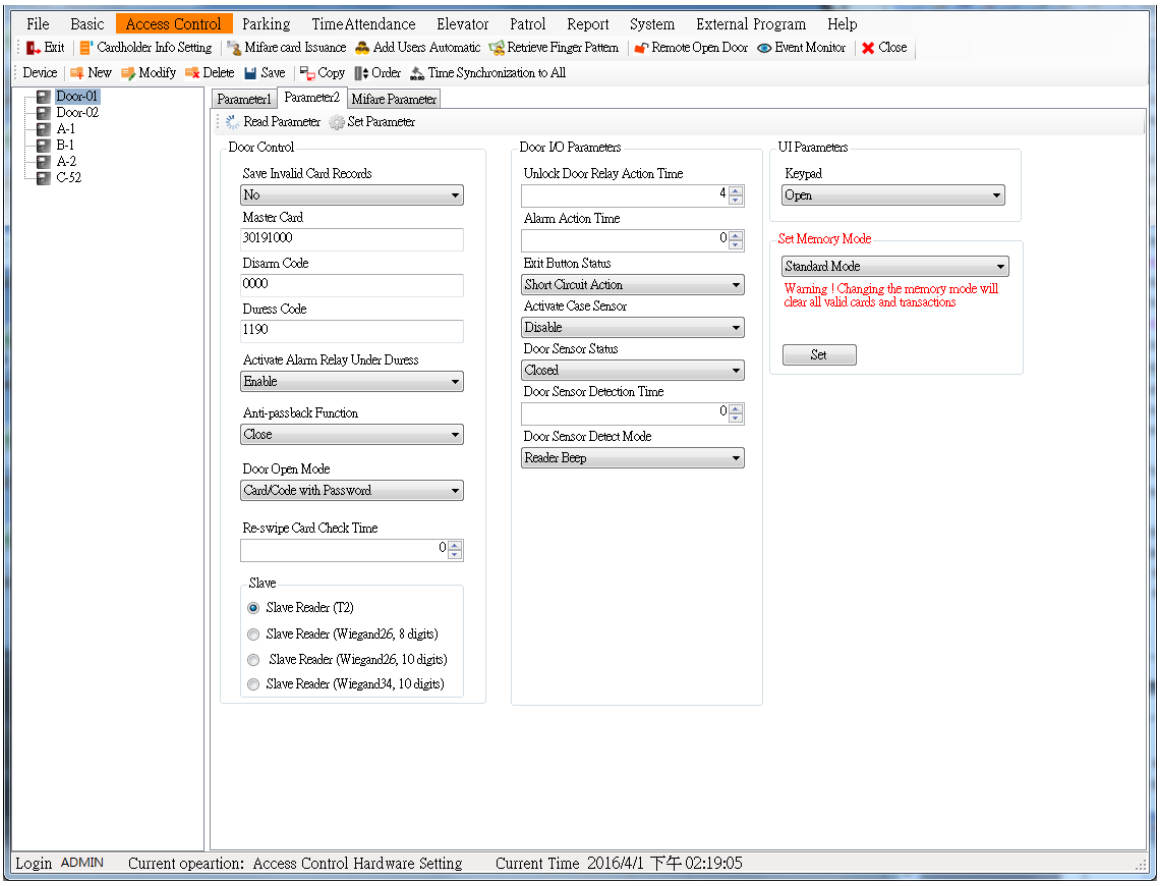
【UI Parameter】(Not support HAC-C2 Series)

- Keypad：Enable or disable keypad function.

【Set Memory Mode】(Not support HAC-512/HAC-C2 Series)

- Set Memory Mode：Except SHR-100, all controllers' default are standard mode
  - Standard Mode：Support 1,024 card numbers with password and 800 events.
  - Compressed Mode：Support 1,400 compressed card numbers with password and 1,800 events.
  - Shared Mode：Support 65,535 card numbers without password and 1,800 events.

Note: Valid card numbers and events will be deleted if changed the mode.


File
Basic
Access Control
Parking
TimeAttendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare card Issuance
Add Users Automatic
Retrieve Finger Pattern
Remote Open Door
Event Monitor
Close
Device
New
Modify
Delete
Save
Copy
Order
Time Synchronization to All
Door-01
Door-02
A-1
B-1
A-2
C-52
Parameter1
Parameter2
Mifare Parameter
Read Parameter
Set Parameter
Door Control
Save Invalid Card Records
No
Master Card
30191000
Disarm Code
0000
Duress Code
1190
Activate Alarm Relay Under Duress
Enable
Anti-passback Function
Close
Door Open Mode
Card/Code with Password
Re-swipe Card Check Time
0
Slave
Slave Reader (T2)
Slave Reader (Wiegand26, 8 digits)
Slave Reader (Wiegand26, 10 digits)
Slave Reader (Wiegand34, 10 digits)
Door I/O Parameters
Unlock Door Relay Action Time
4
Alarm Action Time
0
Exit Button Status
Short Circuit Action
Activate Case Sensor
Disable
Door Sensor Status
Closed
Door Sensor Detection Time
0
Door Sensor Detect Mode
Reader Beep
UI Parameters
Keypad
Open
Set Memory Mode
Standard Mode
Warning ! Changing the memory mode will clear all valid cards and transactions
Set
Login ADMIN
Current opeartion: Access Control Hardware Setting
Current Time 2016/4/1 下午 02:19:05

5-2 Auth Setting (HAMS-10)

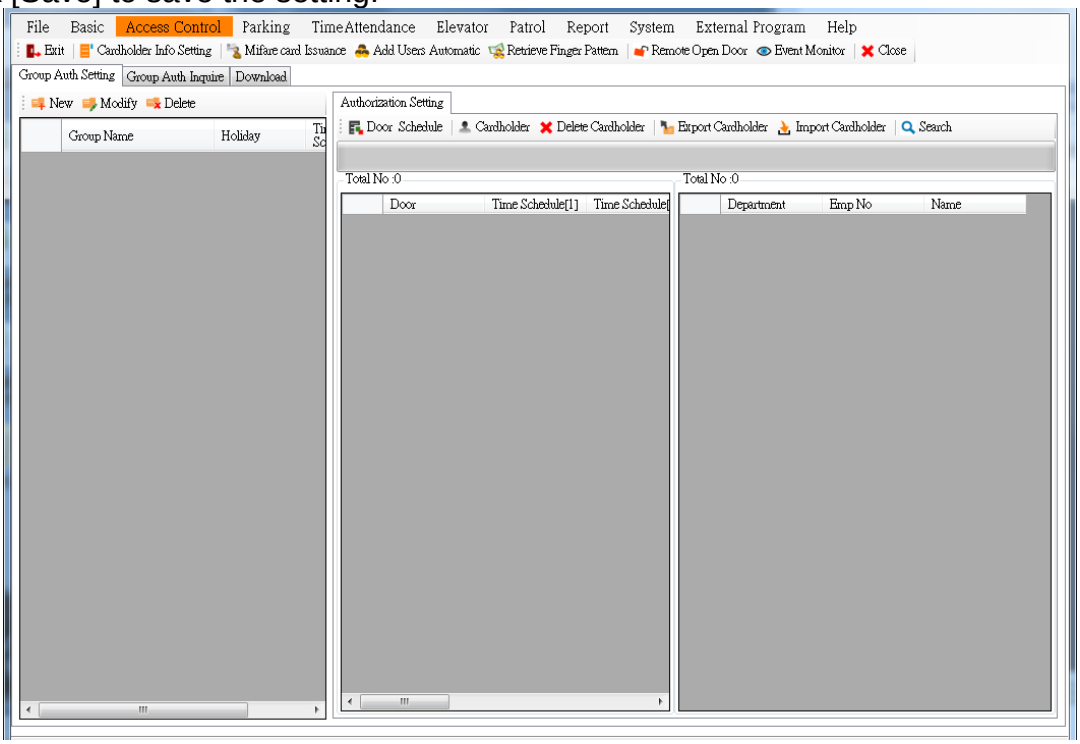
5-2-1 Group Authorization Setting

Create group and assign user authorization.

Note: Biometric Characteristics device may only assign a time schedule.

Operation Steps:

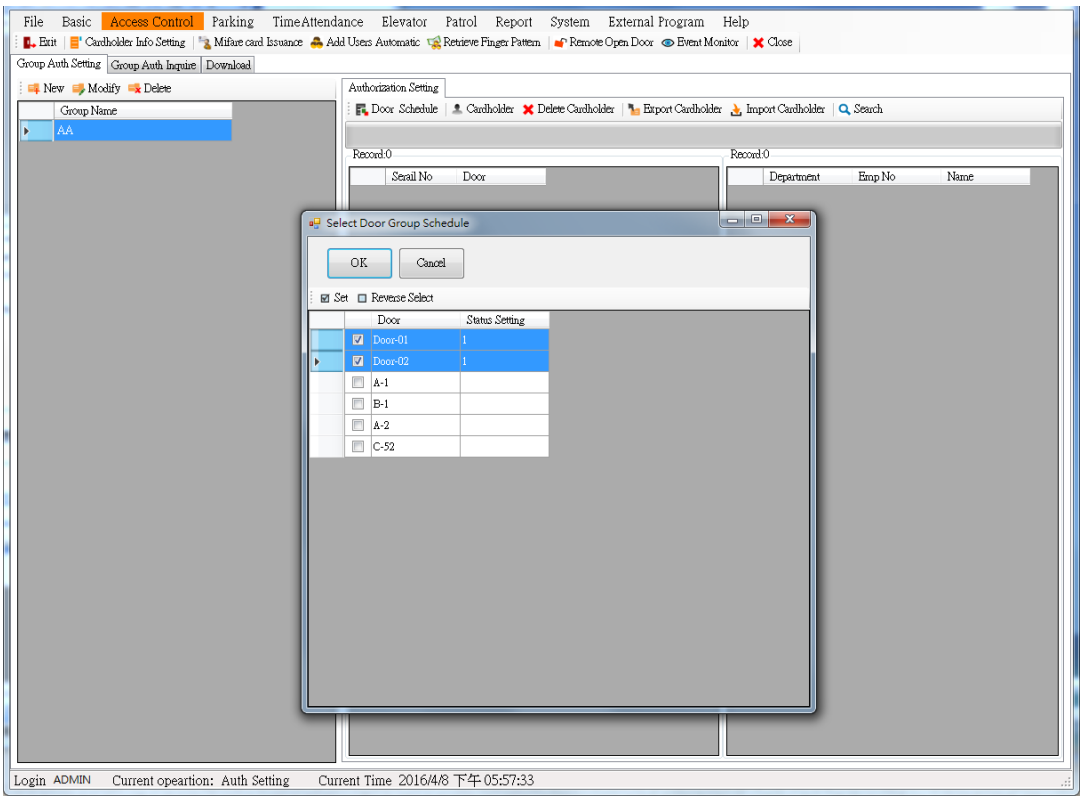
1. Click [New].
2. Input group name.
3. Click [Save] to save the setting.

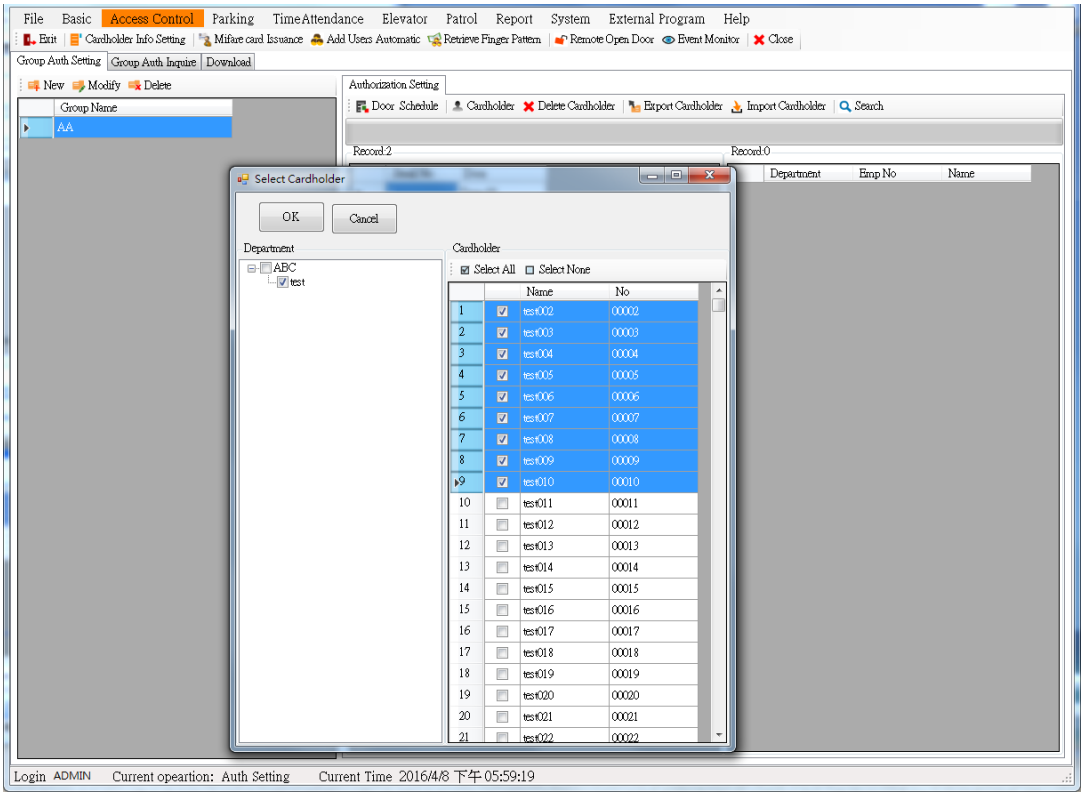


4. Go to [Door Schedule].Select a Time schedule from left side first. Then select the doors which you want to authorize.

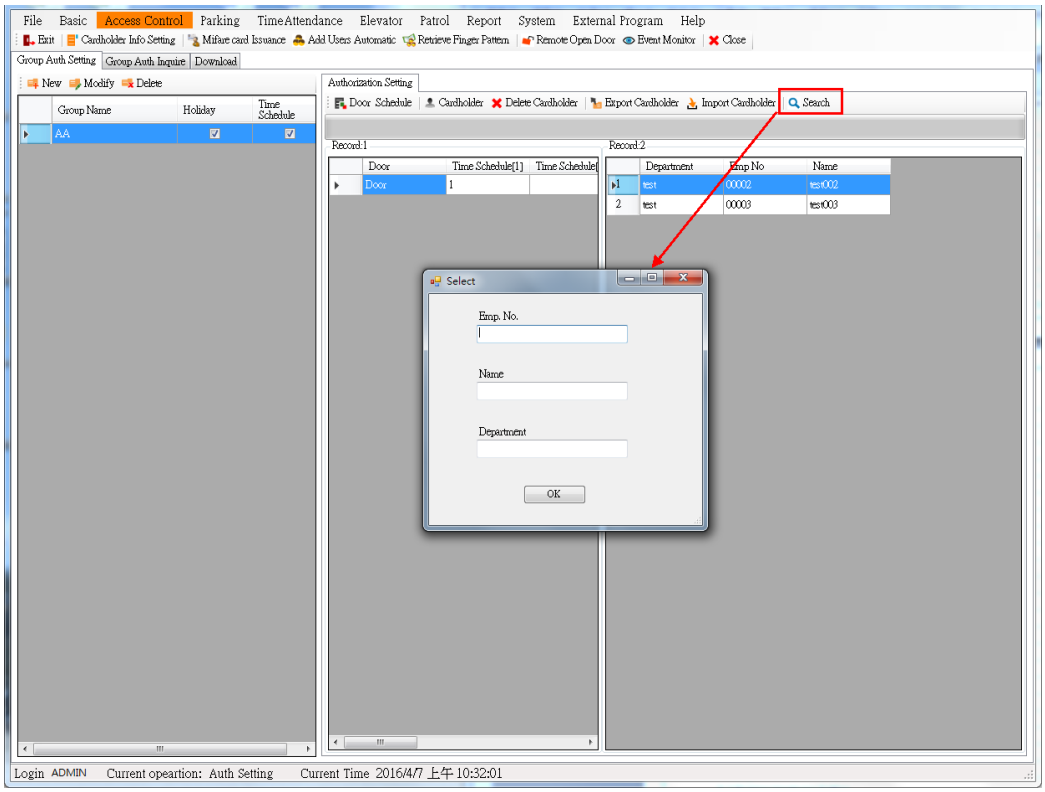
   Hint: Speedy Selection: Press CTRL key and select doors by mouse or press SHIFT key and select doors successively by mouse.

5. Click [OK].





6. Go to [Cardholder]. Tick the department then you will read cardholder list which belong the department. And then you can start to tick the cardholders.
7. Click [Save] to save the setting. If want to delete the selection, please remove the tick.
8. Able to use "Search" function according to the types of search criteria, like Emp. No, Name or Department.



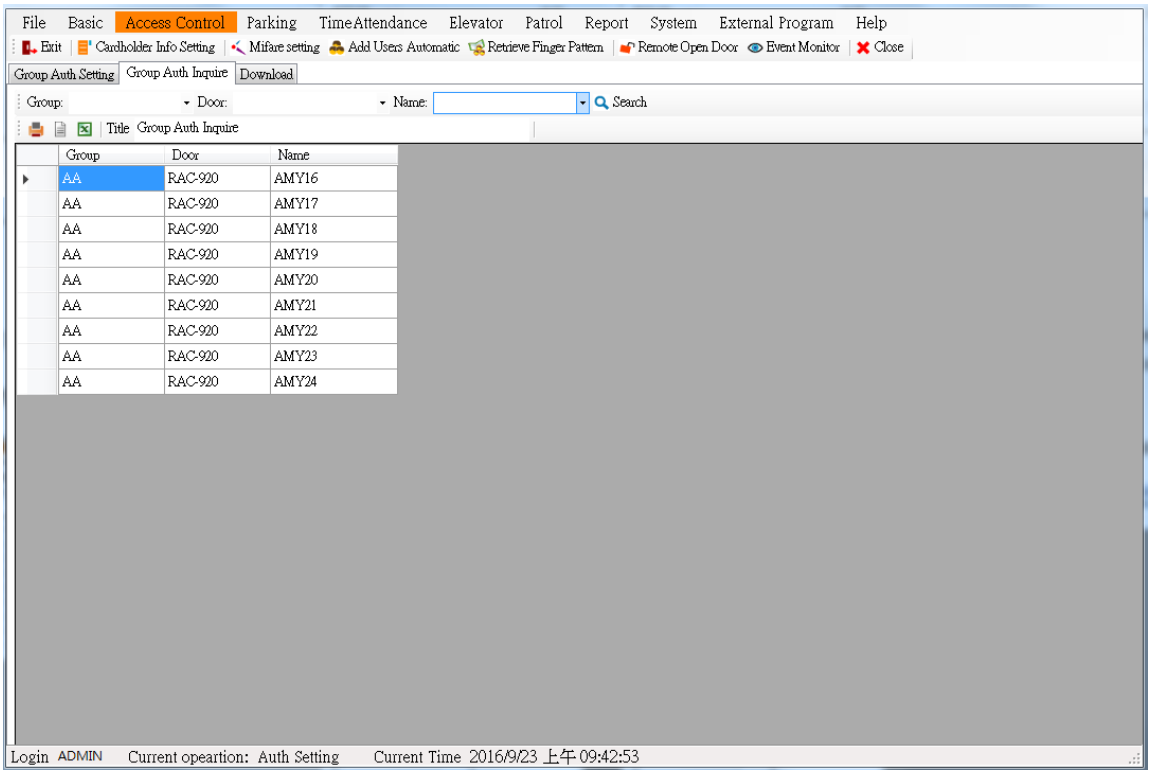
After setting completed, system also allows users to click [Export Cardholder] to produce a txt file base on the setting. The file only includes cardholder name and authority by department. This file may import to system and use for other group authorization.

5-2-2 Group Authorization Inquire

Enquire user's authorization. Specify the range according to Group, door and User name. Report provides print function and can be converted to TXT or XLS format for other application.

Operation Steps：

1. Check dynamic drop-down menu, you will read group, door and name.
2. Click 「Search」.

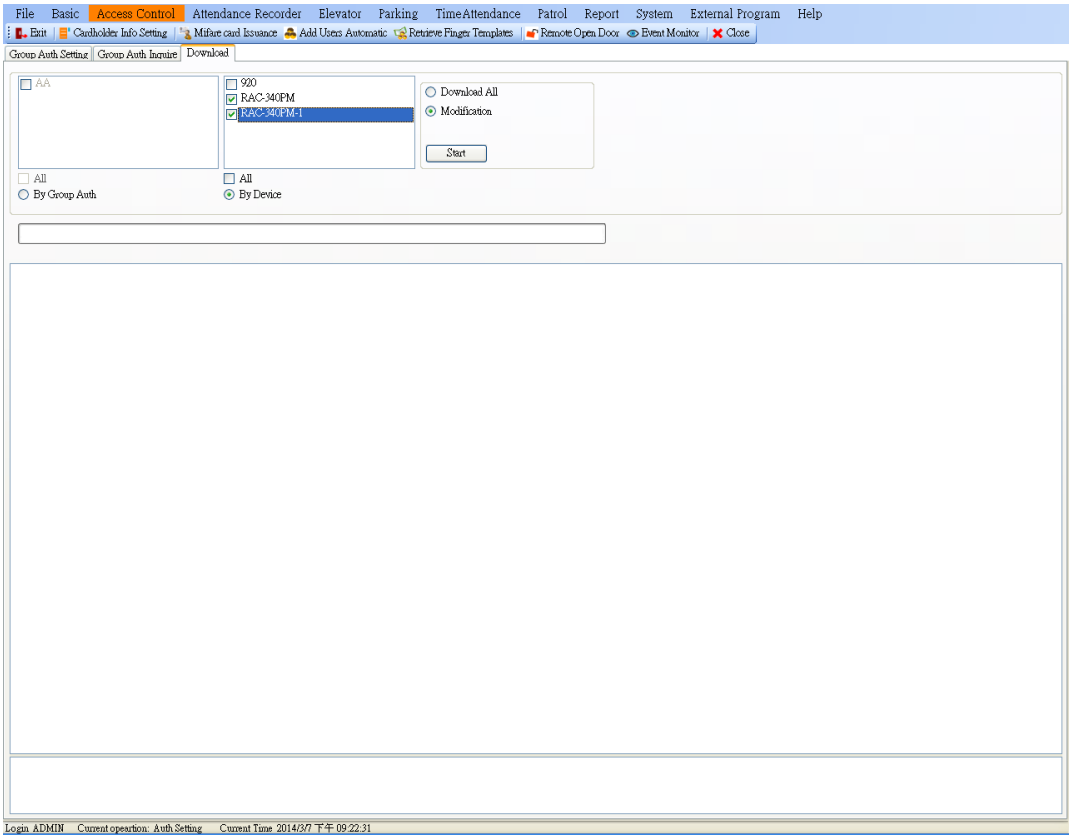


5-2-3 Download

Download users' authorizations to controller.

Operation Steps：

1. Select downloading by group auth or by device.
2. Select group or device or select "All" to downloading.
3. Click「Start」to start the download.



5-3 Access Control Hardware Setting (HAMS-19)

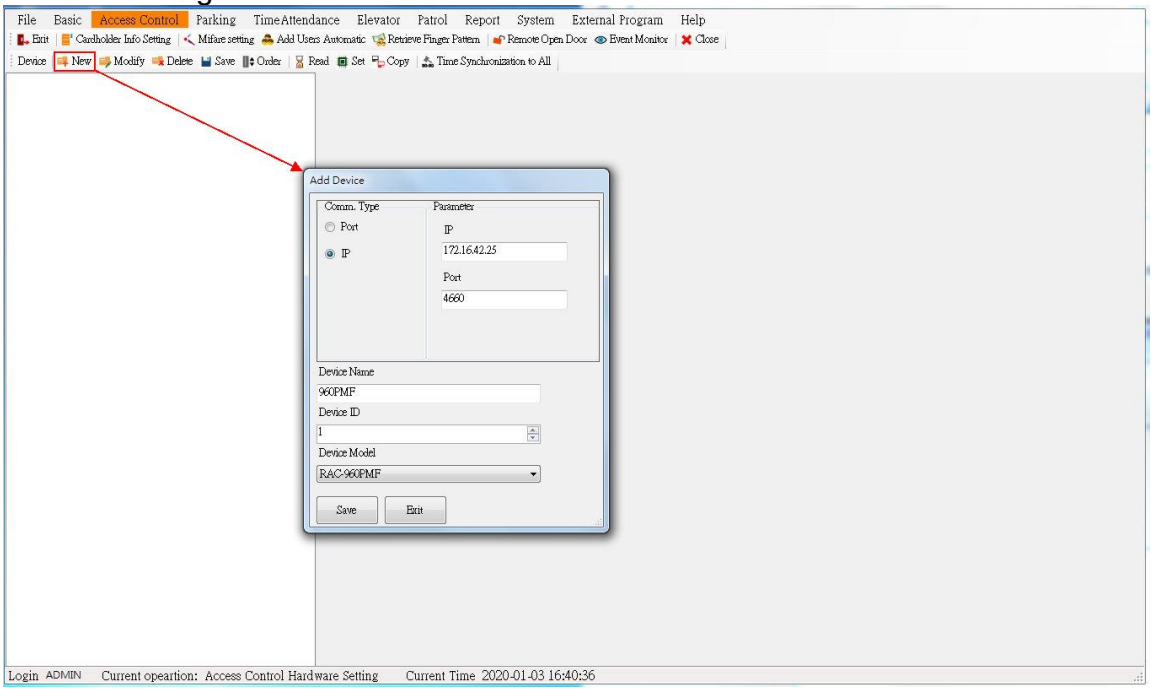
Hardware Supported List：HAC-100/HAC-101/HAC-710/RAC-810PMF/RAC-820PEF/ RAC-820PMF/RAC-820PMFV/RAC-852/940/960/970/971/RAC-850PMFA/HAC-A12

HAC-101 is an elevator controller by default. If you need to use it as an access controller, please go to “Special Parameter Settings” in “Mifare Settings” to change the mode to be an access control mode then add the new hardware. (Please refer to the chapter “Special Parameter Settings”)

5-3-1 Hardware Detail List

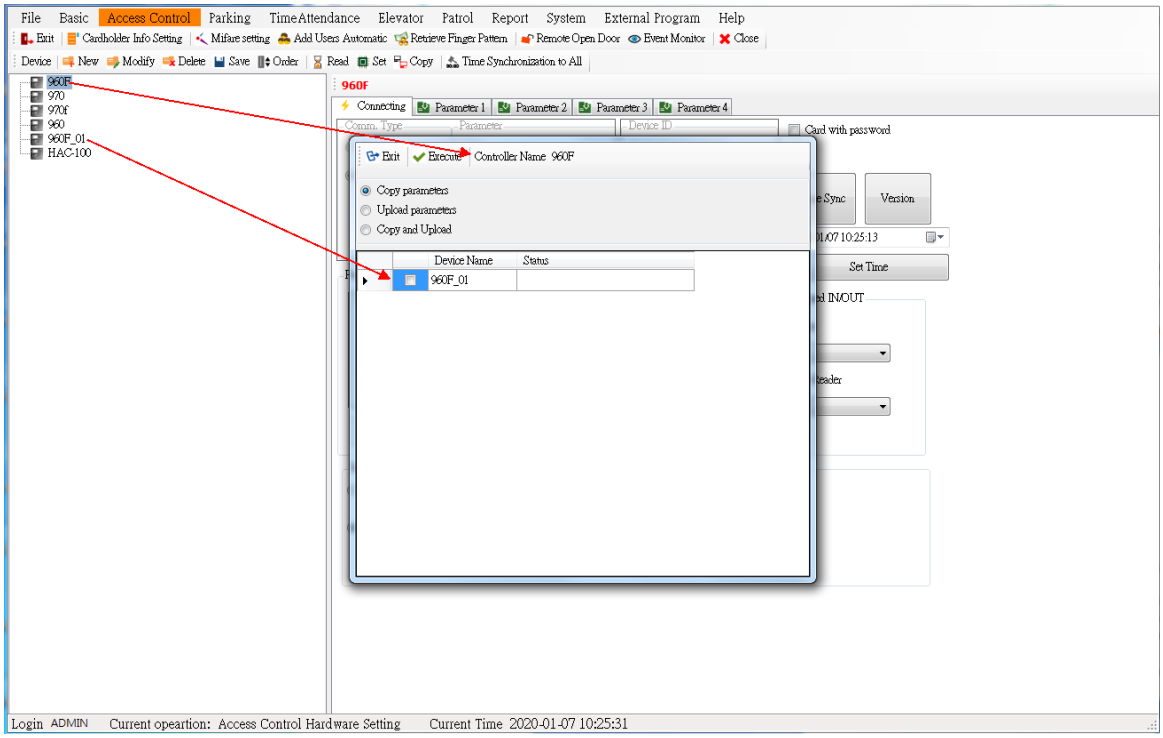
Operation Steps:

1. Click [New], then select communication type.
   - Communication Type: Select COM PORT or TCP/IP. When using COM PORT, please make sure the COM PORT number and baud rate must be 19200. When using TCP/IP, please input IP address and port.
2. Input device name and device ID (Default ID is 1).
3. Select device model.
4. Save the setting.



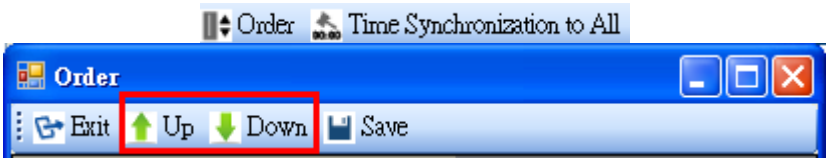
5. Click [Copy] and may copy parameter to other same model machines.
   - Copy Parameter: Only copy Siren Timetable and Duty Time Switch Table and Password/Alarm Timetable to selected same model machines.

- Upload Parameter: System will upload above timetables to selected same model machines individually.
- Copy and Upload: System will copy and upload current machine's timetables to selected same model machines.



6. Click [Time Sync] to read device time.
   - Time Sync.: Synchronize time by PC
   - Set Time: Input date and time by user.

7. Click Order may sort the devices.



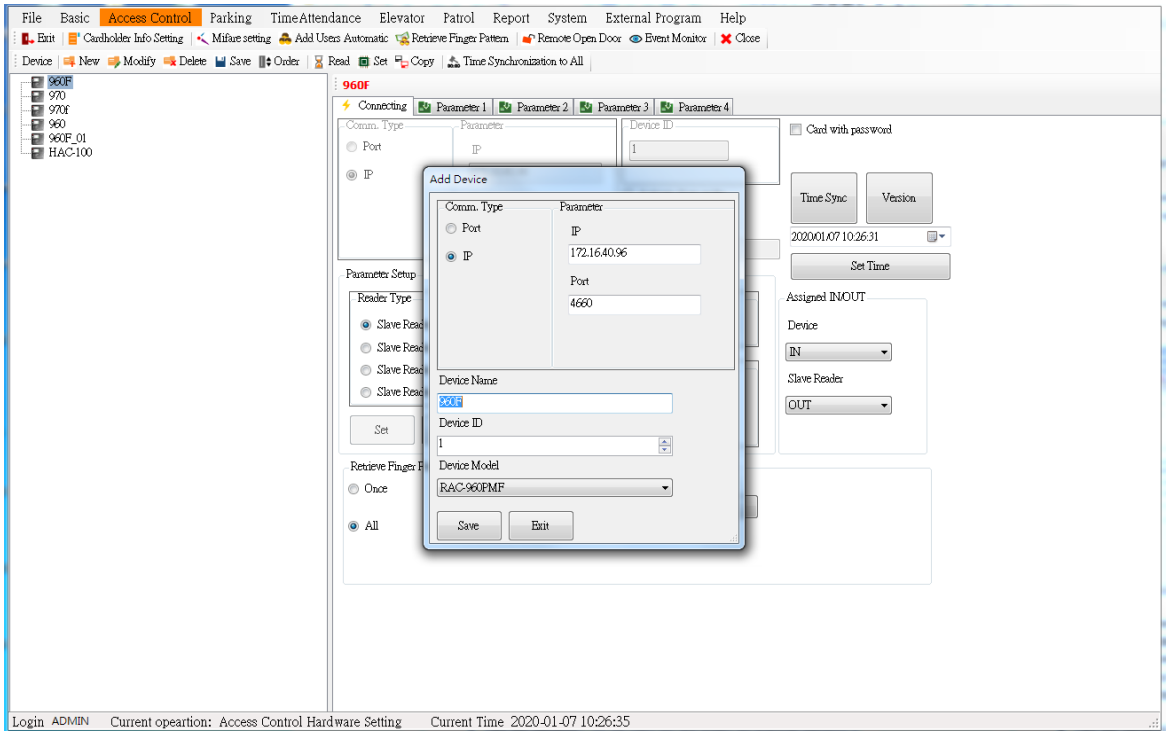
8. Click Time Synchronization to All may correct all devices' time once.

5-3-2 Modify Connecting information

It is mainly to modify communication parameter, like IP address, port number, device name, and device ID and model selection.

Operation Step:

1. Select the controller on the left side.
2. Click [Modify].
3. Modify the setting. For example: comm. type, device name and device ID.
4. Clicking [Save] to saving the modification.



Other modifiable parameters:

- Activate slave reader: Depending on current device structure. After tick check box of Activate salve reader and then user can input slave reader name. Request to tick check box for using time and attendance management or patrol management.
- Slave Reader Name: The name will show when retrieve swiped records and swipe card report.
- Card with password: Tick the check box and system will download password to device. Users may need swipe card then press password for access. If the password is not entering in cardholder information, the door will open upon swipe valid cards. (For RAC-810PMF/RAC-820PEF/RAC-820PMF reserved)

- Assigned In/Out: Assigned In and out of controller and slave reader.

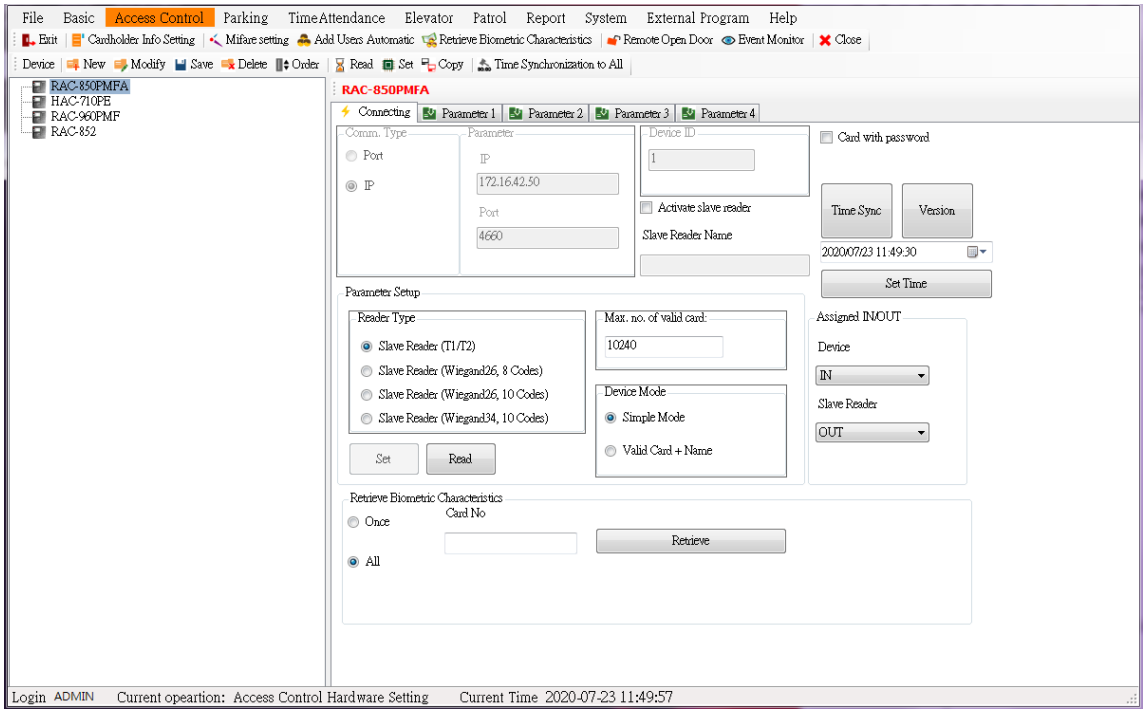
After modify the parameter, please remember to press button [Set] to download the value and then the settings will be effected.

[Parameter Setup]:

Note! Modify system parameter will clear all valid cards and swipe card records. Please do not modify it arbitrary. In order to modify system parameters unwittingly, user need press button [Read] and then may modify the parameters.

- Reader Type: If reader type is different from current slave reader, system is not able to retrieval events from slave reader.
  - Slave Reader (T1/T2): Slave reader supports T1/T2 interface. Reader will send 10 digits back to program.
  - Slave Reader (Wiegand 26, 8 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program.
  - Slave Reader (Wiegand 26, 10 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program and program add 00 in front of number automatically and display 10 digits to users.
  - Slave Reader (Wiegand 34, 10 codes): Slave reader supports Wiegand 34 interface. Reader will send 10 digits back to program.
- Max. no of valid card: Default valid card number is 10,000 and max. 18,000.
  Note: Controller will draw up a best memory distribution, so sometime the current value will different from your setting. For example: Set valid card no is 12,000, but after read back setting values, you will read 12,006 cards. It is normal situation. By the way, the valid card amount will affect event space. if the valid card amount is few, the event space will increase.
- Device Mode: When select “Simple Mode”, controller will display card number only when card swiped. If select “Valid Card+ Name”, controller will display name and card number when card swiped. Default display of card number is ****, if wants to display plain code, kindly go to Parameter 1 to enable display card number function.
- Retrieve Biometric Characteristics: Please input card number first when “Once” selection. Then press button [Retrieve]. It is highly recommend retrieving all biometric characteristics at first time. After that, user can retrieve biometric characteristics singly to avoid long time retrieval. (System will take 4~5 minutes for 200 biometric characteristics)

Note: Please retrieve all biometric characteristics when no users use machine, especial avoid office hours lest retrieval failed. If retrieval failed, system will have a log file in C:\Program files\HAMS-20\Logs\date.log. Operator may know which retrieval is failed and retrieve it again by "Once".



5-3-3 Parameter 1

To modify controller's status

Operation Steps:

1. Select the controller on the left side.
2. Click [Read] to get back current setting of controller. System will read parameter 1, parameter 2, parameter 3 and parameter 4 back at the same time. Similarly when click [Set], system will set all parameters once.
3. Parameter 1 contents:

[Device Status Setup]

- Doesn't inspect auth. on time schedule of slave reader: Tick the check box, request card with pin code for slave reader access. (Default is unchecked).
- Indoor Mode: When tick the check box, controller will be indoor mode. If preceding parameter is ticked, controller will check access authorization.
- Activate alarm for blacklist card: Tick the check box, the alarm will activate when swipe blacklist card.
- Do not request password of slave reader: When tick the check box, slave reader only request swipe card.
- Display card number: Controller will display card number after tick the check box.
- Do not store invalid card record: System will not store invalid card records after tick the check box.
- Cannot overwrite store records: System will stop saving data when the storage limit is exceeded. User need retrieve all data to database first.
- Activate alarm when memory full: When stored records full, system will receive "Memory Full" event. This function works hand in hand with "Cannot overwrite store records" Function. System will activate a warning alarm.
  Note: Only RAC-820PMFV/852/960/RAC-970 supports this function.

[Error Setup]

- No. of re-swipe card: Allowed error times of re-swiping the same card. This function works hand in hand with "Max. re-swipe invalid card to ceases system" function.
- Max. re-swipe invalid card to ceases system: How many seconds the device will stop working when re-swiping invalid card. After a certain period of time, the device will function again. This function works hand in hand with "No. of re-swipe card" Function.
- Frequency of fingerprint mismatch：Select the number of times that fingerprint

mismatches. If the fingerprint mismatch reaches the given times, the device will pause for some seconds and then resume to work(Only for fingerprint models)

Note：The retry count by card, or by fingerprint are separate.

[Compress Valid Code]

- Index: The index digit of compare valid card number.
- Length: How many digits you want to compare.
  Ex: Card No. is 1234567890, if compare index is 1, compare length is 3. Valid cards with number starting with 123 will be granted access.

[Retrieve Valid Code]

- Index: The index digit of retrieve valid card number.
- Length: How many digits you want to retrieve of valid card no.
  Ex: Card NO. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card no. should be 234567 too, otherwise the door will not open.

[Master/Disarm/Duress]

- Master Card: Required to enter command mode of controller (Default is 30191000). Kindly refer to hardware manual. (For RAC-820PMFV reserved)
- Disarm Code/card: To deactivate the alarm, disarm code/card is inputted.(Default code is 0000)
- Duress Code/card: Alarm will be activated and door will be opened upon pressing duress code/card.(default code is 1190)

[LCD Display Date] (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)

- YYYY/MM/DD: LCD displays Year/Month/Day.
- MM/DD/YYYY: LCD displays Month/Day/Year.
- DD/MM/YYYY: LCD displays Day/Month/Year.

[Select Language] (RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV language options for voice prompts)

- English: LCD displays English. (Voice prompts are in English)
- Tradition Chinese: LCD displays Tradition Chinese. (Voice Prompts are in Chinese)

- Simplified Chinese：LCD displays Simplified Chinese. (Voice Prompt are in Chinese)

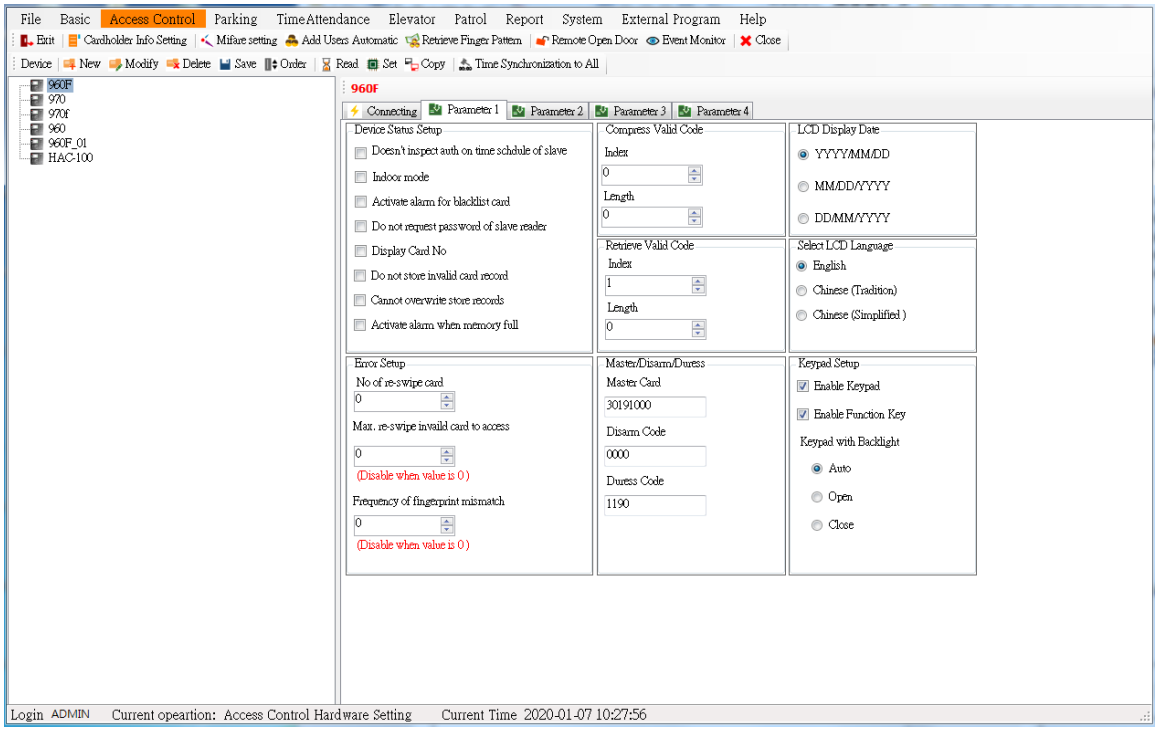
[Time Adjustment] (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)

- Hourly Adjustment：How many hours would like to be set 1 second forward or 1 second backward.

[Keypad Setup] (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)

- Enable keypad：Tick the check box then keypad is enabled.
- Enable function key：Tick the check box; function keys F1/F2/F3/F4 will be enabled.
- Keypad with backlight
  - Auto: When swipe card or press the keypad, the keypad backlight will activate automatic.
  - Open: Always activate of keypad backlight.
  - Close: Always inactivate of keypad backlight.

4. After clicking [Save], please click [Set], then the parameter for the settings to take effect.



5-3-4 Parameter 2

To modify relay and sensor's status of controller

Operation Steps:

1. Select the controller on the left side.
2. Click [Read] to get back current setting of controller. System will read parameter 1, parameter 2, parameter 3 and parameter 4 back at the same time. Similarly when click [Set], system will set all parameters once.
3. Parameter 2 contents:

[LCD Status Setup] (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)

- Backlight Mode
  - Auto: When swipe card or press the keypad, the LCD backlight will activate automatic.
  - Open: Always activate of LCD backlight.
  - Close: Always inactivate of LCD backlight.
- Return to ready status (sec.): The duration of return to ready status after swiping card.

[Case Sensor Alarm]

- Activate buzzer: Activate buzzer when controller tamper proof.
- Activate alarm relay: Activate alarm relay when controller tamper proof.

[Alarm relay Setup]

- Pulse (Second): It will return to original position within the time you set.
- Toggle: Alarm relay will not return to original position until alarm relay has been activated again.
- Latch: It will not return to original position until alarm release code has been entered.

[Anti]

- Close: Disable Anti-pass back function.
- Open: Enable Anti-pass back function. When enable this function, the slave reader must be installed.

  Anti-pass back management: Main controller is for in and slave reader is for out. This function request user swipe card in main controller for in and must swipe card in slave reader for out. Otherwise, user cannot swipe card in main controller again.

[Activate Alarm Setup]

- Enable Time (Minute)：The duration of alarm after activate alarm.
- Disable Time (Minute)：The duration of alarm after inactivate alarm.
- No. of Repetitive：The repetitive number of activate and inactivate alarm when in the emergency.

  Ex：Set enables time as 1, disable time as 1 and No. of repetitive as 3. The system will activate alarm for 1 min then stop it. After 1 min later, activate alarm again and 3 times continuously.

  Note：This parameter only takes effect in Latch mode of alarm relay.

[Door Relay Setup]

- Pulse (Second)：Door relay will return to original position within the time user set. Default is 4 seconds.
- Toggle：Door relay will not return to original position until door relay has been activated again.

[Finger] (RAC-810PMF/RAC-820PEF/RAC-820PMF/960PXF/970PXF/971PXF) / [Finger Vein Parameter] (RAC-820PMFV/852PXFV)

- Activate 1:1 Authentication：Default is 1：N identification, user access by biometric characteristics only. When tick the box, user need swipe card and put biometric characteristics for access. (For RAC-820PMFV reserved)
- Multiple card Comparison：Download the dual card according to the dual card settings in the “Basic” setting.
- Enable Audio Prompt：Default is enabling audio prompt.
- Assign a Biometric Characteristics as Master Card：Assign a user’s biometric characteristics as Master card. (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)
- No need identify finger when card no is authorized：Allow users open door by card only, do not need use finger vein. (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV/RAC-852 series only)
- RS-485 Mode：Communication with finger reader or DVR selection. (For RAC-810 PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)

[Select Relay Action] (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV reserved)

Relay 0 signifies built-in relay of controller. Relay 1 and relay 2 signifies relay 1 and 2 of

ACU-30. Default mode is mode 0.

Note：When change Relay 2 from siren to alarm, please clear siren timetable and download the setting. Relay action will become to alarm.

	Relay0	Relay1	Relay2	Relay3
Mode 0	Door	Door	Alarm/ Siren	X
Mode 1	Bell	Door	Alarm/ Siren	X

[Door Sensor Alarm Action]

- Activate Buzzer: Activate buzzer when door does not close.
- Activate Alarm Relay: Activate alarm relay until door has to be closed.
- Door Sensor Detection Time: Sets the duration of door's status. Default value is 0 which means this function is deactivated. Example: Sensor detection time is 30 seconds, if the door open time has expired 30 seconds after door relay return to original position but door does not close, controller will make beep sound continuity.

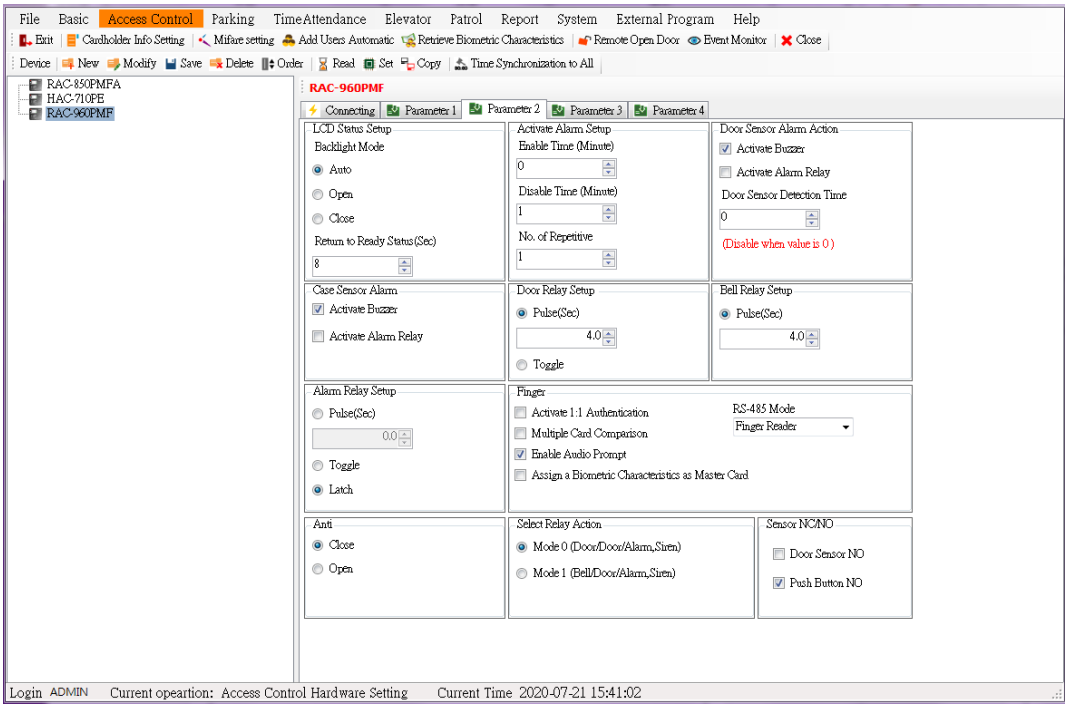
[Bell Relay Setup] (For RAC-810PMF/RAC-820PEF/RAC-820PMF/RAC-820PMFV/RAC-852 reserved)

- Pulse (Second): Set the duration of bell.(For RAC-852 series reserved)

[Sensor NC/NO]

- Door Sensor NO: Reverse Door sensor active level. Default is NC.
- Push Button NO: Reverse Push Button active level. Default is NO.

4. After clicking [Save], please click [Set], then the parameter for the settings to take effect.


File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare setting Add Users Automatic Retrieve Biometric Characteristics Remote Open Door Event Monitor Close
Device New Modify Save Delete Order Read Set Copy Time Synchronization to All
RAC-850PMFA
HAC-710PE
RAC-960PMF
RAC-960PMF
Connecting Parameter 1 Parameter 2 Parameter 3 Parameter 4
LCD Status Setup
Backlight Mode
Auto
Open
Close
Return to Ready Status (Sec)
8
Activate Alarm Setup
Enable Time (Minute)
0
Disable Time (Minute)
1
No. of Repetitive
1
Door Sensor Alarm Action
Activate Buzzer
Activate Alarm Relay
Door Sensor Detection Time
0
(Disable when value is 0)
Case Sensor Alarm
Activate Buzzer
Activate Alarm Relay
Door Relay Setup
Pulse(Sec)
4.0
Toggle
Bell Relay Setup
Pulse(Sec)
4.0
Alarm Relay Setup
Pulse(Sec)
0.0
Toggle
Latch
Finger
Activate 1:1 Authentication
Multiple Card Comparison
Enable Audio Prompt
Assign a Biometric Characteristics as Master Card
RS-485 Mode
Finger Reader
Anti
Close
Open
Select Relay Action
Mode 0 (Door/Door/Alarm,Siren)
Mode 1 (Bell/Door/Alarm,Siren)
Sensor NC/NO
Door Sensor NO
Push Button NO
Login ADMIN Current opeartion: Access Control Hardware Setting Current Time 2020-07-21 15:41:02

5-3-5 Parameter 3

To modify controller's siren and unlock door time schedule

Operation Steps:

1. Select the controller on the left side.
2. Click [Read] to get back current setting of controller. System will read parameter 1, parameter 2, parameter 3 and parameter 4 back at the same time. Similarly when click [Set], system will set all parameters once.
3. Parameter 3 contents:

[Siren Timetable]

- Operation Steps:
  1. Select numeric keys, 4 sets of alarm time schedule to each numeric key 1~8. Total has 32 sets. (RAC-940PE/PM/PMD only has 8 sets.)
  2. Tick the box which wants to activate.
  3. Input start time.
  4. Input duration of alarm.
  5. Tick the box of weekday. The alarm will not activate if the check box is not ticked.

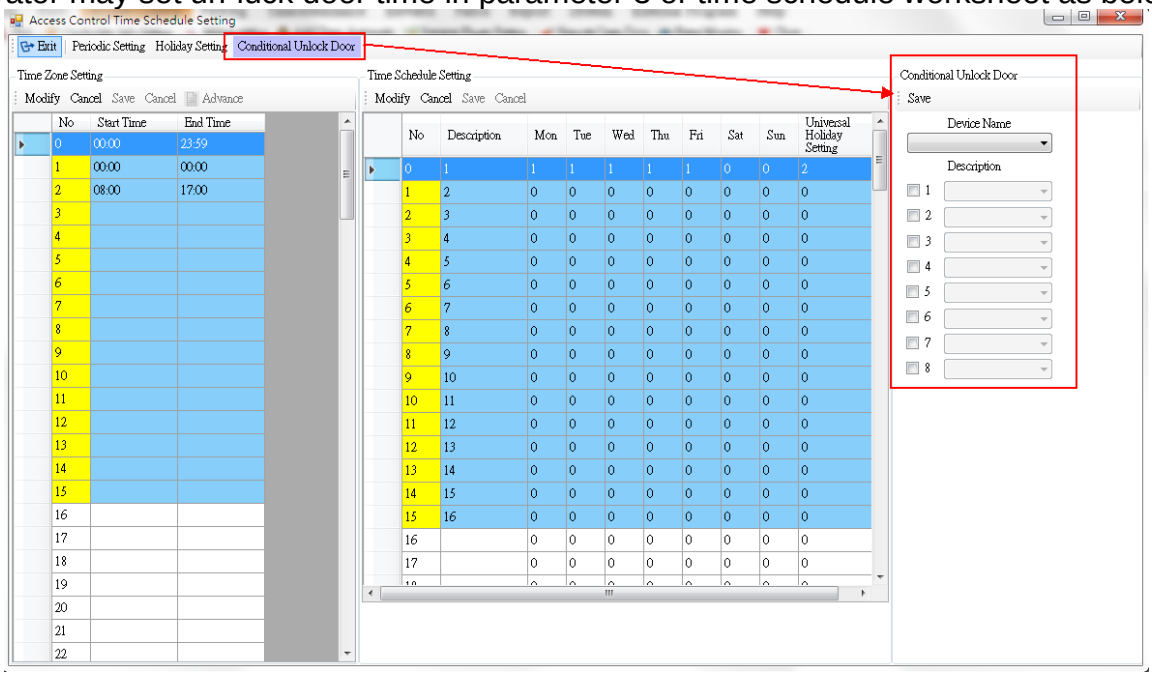
[Conditional Unlock Door]

- Operation Steps:
  1. A controller provides 8 sets conditional unlock door time.
  2. Tick the box which wants to activate.
  3. Select the time schedule which has been set in "Access Control Time Schedule Setting" function
  4. Click [Save] and [Set], the parameter for the settings to take effect.

  Note:

  1. Please set time zone and time schedule first.
  2. Priority authorization of access control is holiday schedule first. Then conditional unlock door and periodic time schedule.

Operator may set un-luck door time in parameter 3 or time schedule worksheet as below.



Note: Once set unlock door time schedule in time schedule worksheet, please remember back to parameter 3 to upload the settings (Click button SET) into device.

【LCD display original duty shift automatic】: Controller LCD display will return to original duty shift automatic when user changes duty shift by manual. (For RAC-810PMF/RAC-820PEF/ RAC-820PMF/RAC-820PMFV reserved)

【Roll Shutter Mode】: Access control mode will become Roll shutter mode. How to control roll shutter, kindly check hardware manual. (For AC-940/RAC-960PE/PM/PMD, RAC-970 PE/PM/PMD, RAC-971PE/PM and RAC-850PMFA only)

【Re-swipe Card Check Time】: This is the time for checking the card repeatedly. As the time is set, once user swipes card more than once within a preset time, system will not record the event and will make beep sound. (For RAC-820PMFV/ RAC-850PMFA reserved)

【Activate alarm relay when reach the number of errors】: System will activate alarm relay when reach the number of errors. (For RAC-810PMF/820PEF/RAC-820PMF/820PMFV/ 852/940/960/970/971/RAC-850PMFA only) to activate this function, please set values in parameter 1 [No of re-swiped card].

【Push Button with voice】：When pressing the push button to open the door, controller will make a ”beep” sound. (Only for RAC-940/960/970/971 Series)

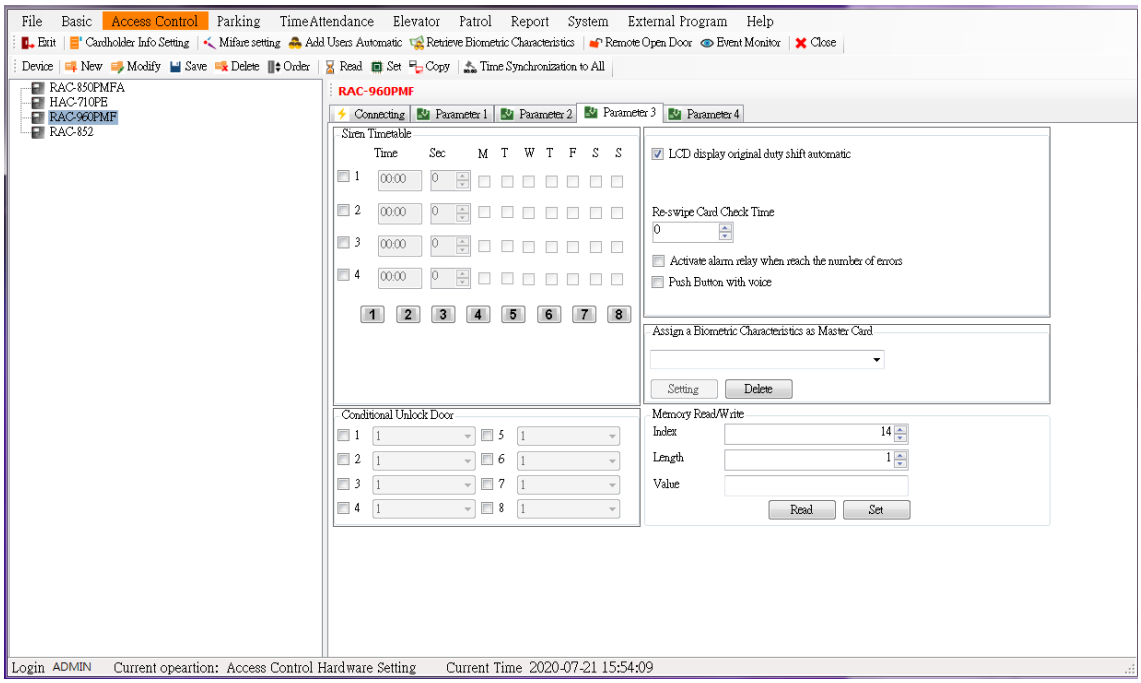
【Assign a Biometric Characteristics as Master Card】(For RAC-852/RAC-960PMF/PEF ,RAC-970PEF/PMF/PMDF/RAC-971PEF/PMF Only)

Assign a biometric characteristics as master card/code. After click [Setting], the biometric characteristics settings will be affected.

【Memory Read/Write】

Change memory value from specified block to change controller actions. Please contact with service for details operation. Please do not modify data arbitrary, therefore controller will be abnormal.

4. After clicking [Save], please click [Set], then the Siren Timetable and Conditional Unlock Door setting will be affected.



5-3-6 Parameter 4

It is mainly set what duty shift you want to display in the device.

Operation Steps:

1. Select the controller on the left side.
2. Click [Read] to get back current setting of controller. System will read parameter 1, parameter 2, parameter 3 and parameter 4 back at the same time. Similarly when click [Set], system will set all parameters once.
3. Parameter 4 contents:

[Duty Timetable]

- Display Duty Shift: Provide 7 sets duty shift name. The first set displays when controller in the Ready Status.
- Duty Time Switch Table: Controller will switch duty shift and display on LCD base on this setting.

  Operation Steps:

  1. Select numeric keys, 4 sets of duty shift time schedule to each numeric key 1~8. Total has 32 sets.
  2. Tick the box which wants to display on the LCD.
  3. Input start time.
  4. Input duty shift code.

[Anti Reset]

Operation Steps:

1. Tick the check box which wants to activate.
2. Input start time. System will follow the setting to manage In/Out access.

[Password/Alarm Timetable Setup]

- Request Password Schedule: Request swipe card with password for access.

  Operation Steps:

  1. A controller provides 8 sets password schedule.
  2. Tick the box to activate the password schedule.
  3. Select the time schedule. (Please set time zone and time schedule first.)

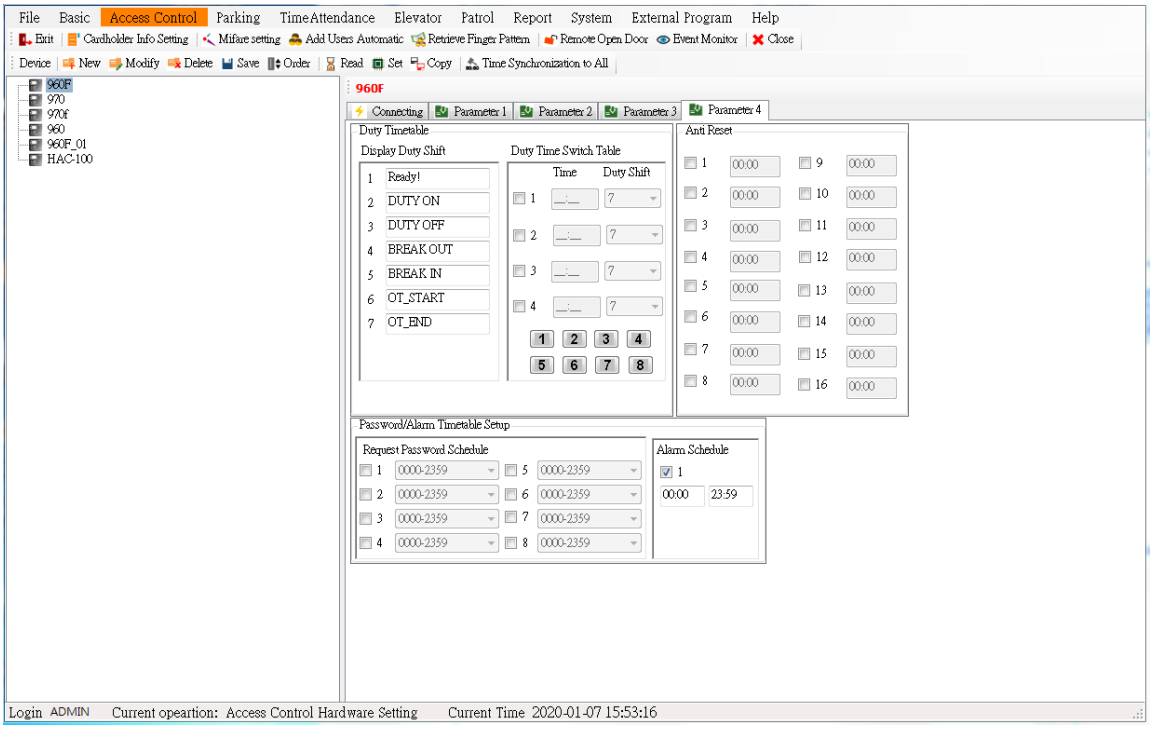
     Note: Please tick the check box of card with password. Then the function is effective. Kindly refer to Chapter 5.1.2. If users do not set password timetable and tick the check box of card with password, system will request 24 hours card with password for access.

- Alarm Schedule: When alarm schedule has been set, system will only activate alarm during the time range of schedule. Otherwise alarm relay can activate for anytime.

  Operation Steps:

  1. A controller only provides a set alarm schedule.
  2. Tick the check box.
  3. Input time range.

4. After clicking [Save], please click [Set], then the parameter for the settings to take effect.

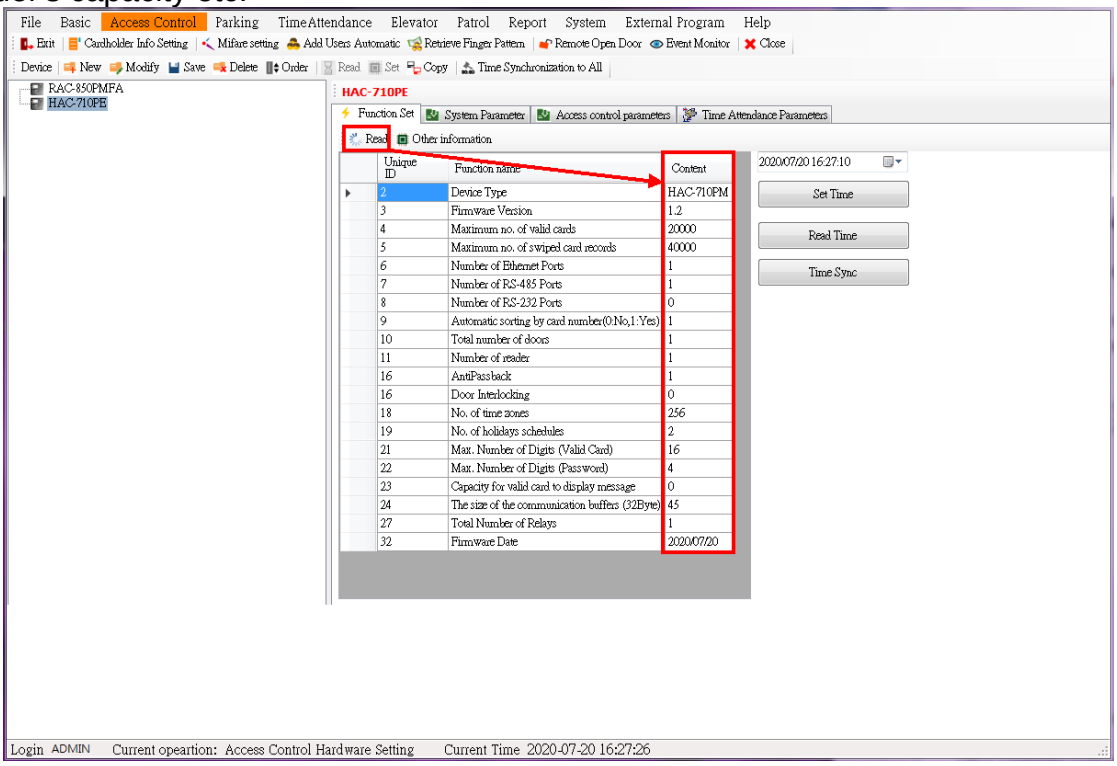


5-3-7 Function Set (HAC-100/HAC-101/HAC-710/HAC-A12/HAC-971)

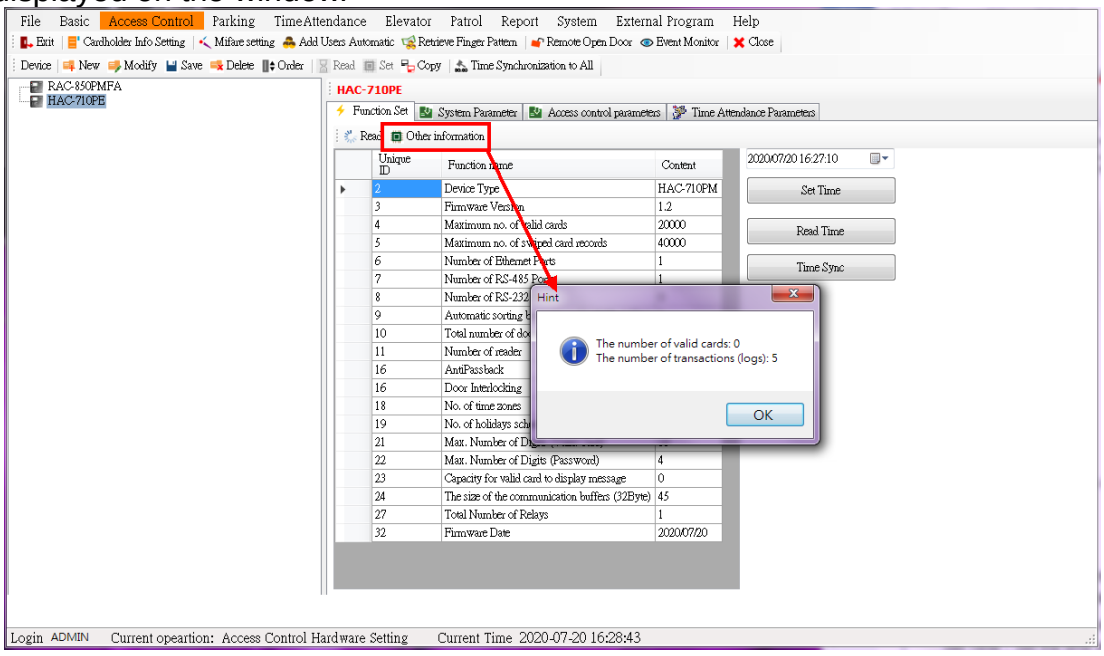
To display the device information and do the time calibration (Time Sync).

Operating Steps

1. Press "Read" button to get all the device function information.
2. The window will display function contents, like model number, firmware version, card-holder's capacity etc.



3. Click “Other Information”, the number of invalid cards and the number of transaction will be displayed on the window.



Other parameter contents:

Read Time ： Get the device's current time; if successfully, it will show the message "Read Successful" and show the time. (Year, Month, Date, Hour, Minute, Second)

Set Time：Set the time and synchronize the time to device.

Time Sync： Do the time sync. (Calibration) to device according to the time on PC.

5-3-8 System Parameter (HAC-100/HAC-101/HAC-710/HAC-A12/HAC-971)

To modify the device's parameters：

Operating Steps：

1. Select the device (control panel) that you are going to modify.
2. Press "Read" button to get the existing settings.
3. Modify the parameter settings.
4. Press "Set" to effect the changes.

Parameter Functions are as below：

【UI Parameters】(Not support HAC-710PE/PM and HAC-A12)

- ●Language options :
  - ■ English ：LCD displays in English.
  - ■ Traditional Chinese ：LCD displays in Traditional Chinese.
  - ■ Simplified Chinese：LCD displays in simplified Chinese.

【Date Format】Settable the date format to display on device LCD:(Not support HAC-710 and HAC-A12 Series)

- ●YYYY/MM/DD：Device LCD displays date format (Year / Month / Date)。
- ●MM/DD/YYYY：Device LCD displays date format (Month/Date/Year)。
- ●DD/MM/YYYY：Device LCD displays date format (Date / Month / Year)
- ●YYYY-MM-DD：Device LCD displays date format (Year-Month-Date)
- ●MM-DD-YY：Device LCD displays date format (Month-Date-Year)
- ●DD-MM-YY：Device LCD displays date format (Date-Month-Year)

【LCD backlight mode】(Not support HAC-710 and HAC-A12 Series)

- ●LCD backlight mode

  Auto：While operating it or swiping card, the LCD backlight will be activated.

  Open：LCD backlight is always on.

  Close：LCD backlight is always off.

【Keypad with Backlight mode】(Only support HAC-971)

- ●Keypad with Backlight Mode

  Auto：While operating it or swiping card, the LCD backlight will be activated.

  Open：LCD backlight is always on.

  Close：LCD backlight is always off.

【Message Stay Duration】The time(1~255 seconds, 0 means the default value 10 seconds) that message will stay on LCD. (Not support HAC-710 and HAC-A12 Series)

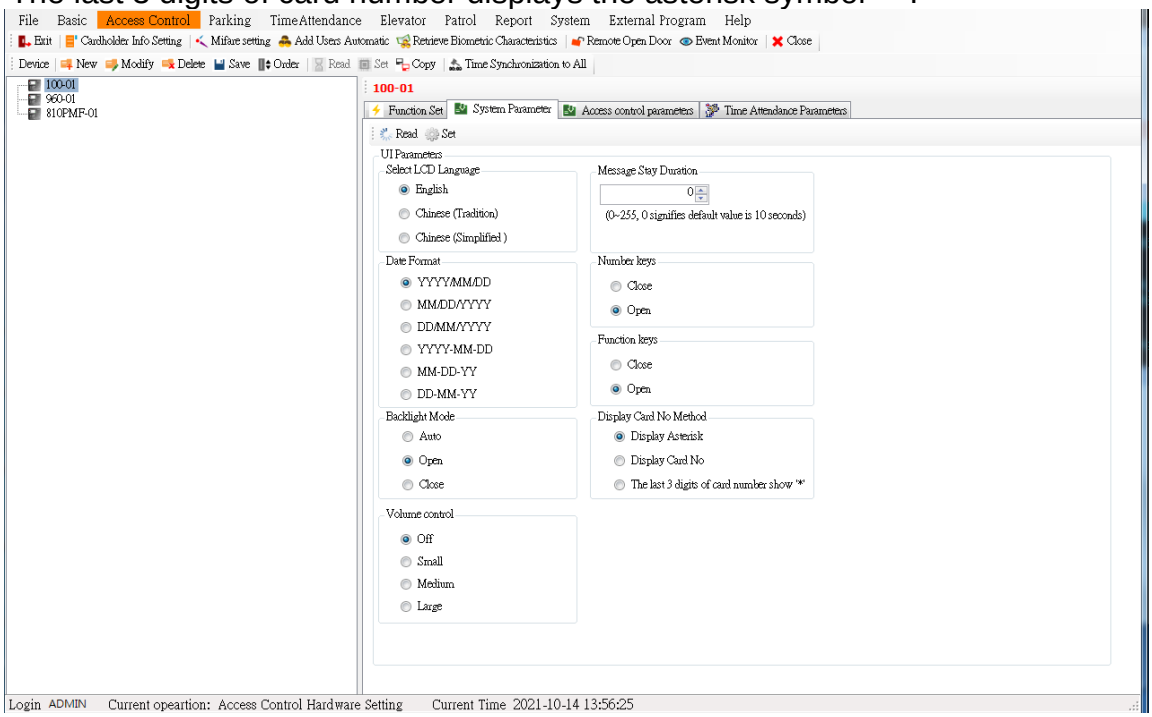
【Number keys】enable / disable numeric keys.

【Volume control】Can adjust the volume of sound, eg. Off, Small, Medium, Large. (Only for HAC-100/101 Series/HAC-710/HAC-A12 and HAC-971 Series)

【Function keys】enable or disable function keys ; The default value is to enable the function keys F1/F2/F3/F4 or HAC-A12's bell function. (Not support HAC-710 Series)

【Display card number method】Select how the LCD display while swiping card: (Not support HAC-710 and HAC-A12 Series)

- Display the asterisk symbol "*".
- Display card number.
- The last 3 digits of card number displays the asterisk symbol "*".

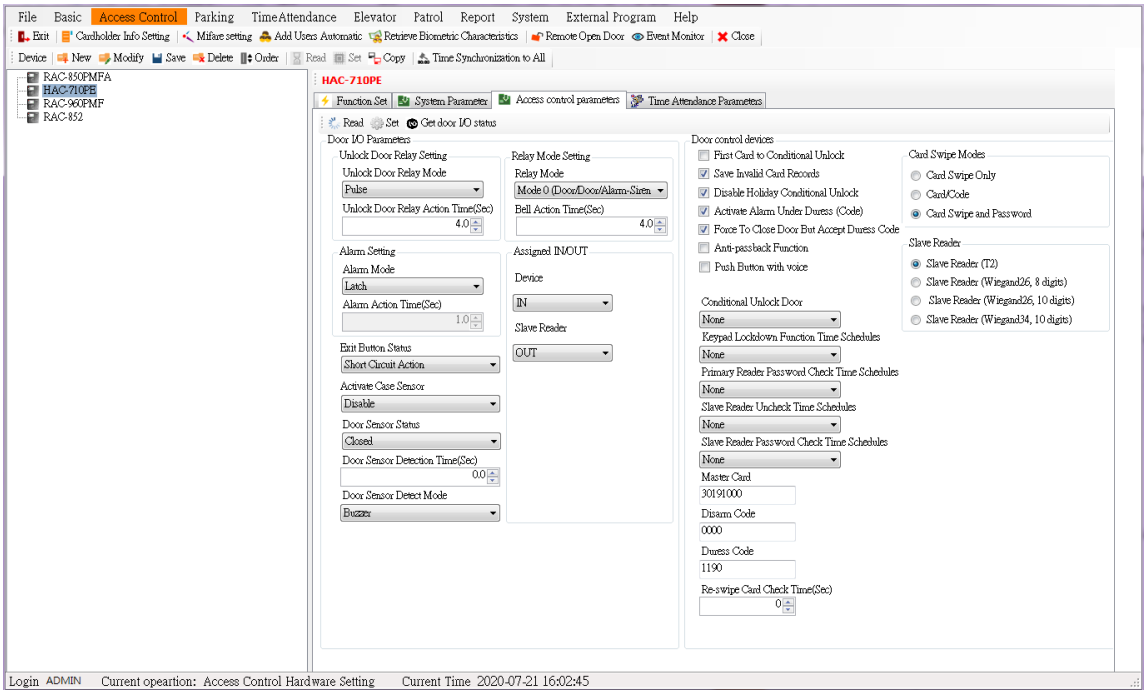


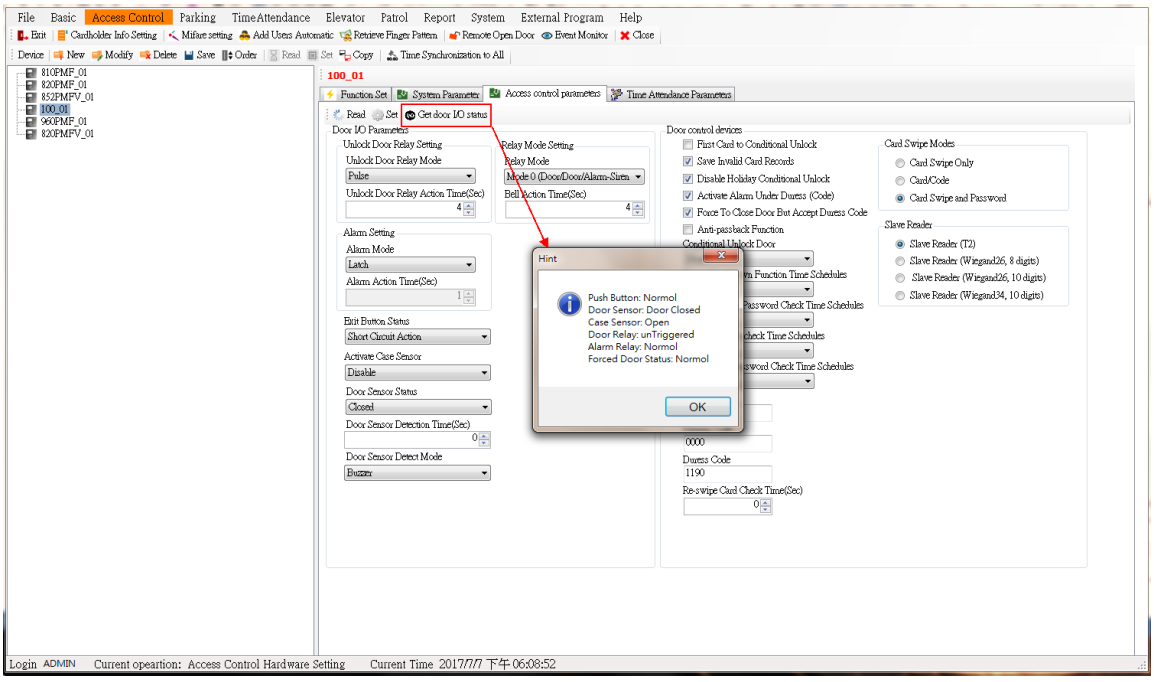
5-3-9 Access control parameters (HAC-100/101/HAC-710/HAC-971)

To modify the device's parameters for access control settings

Operating Steps:

1. Select the device that going to modify.
2. Press "Read" to get the existing setting values, press "get door I/O status" to pop up the window to show the current door I/O status.
3. Change the parameter settings.
4. Press "Set" to effect the changes.





Function Parameters are as below

Door I/O parameter：

【Unlock Door Relay setting】

- Unlock Door Relay mode：
  - Pulse Time (Sec.)：After Door Relay acts, it will recover in a preset time (seconds). The default is 4 seconds, it means the unlocked door will relock after 4 seconds.
  - Toggle：After Door Relay acts，it needs to trigger it again to recover.
- Unlock Door Relay Action time：The duration that door relay acts; the default is 4 seconds.

【Alarm Setting】

- Alarm mode：
  - Pulse time (Sec.)：After Alarm Relay acts，it will recover in a preset time (seconds).
  - Toggle：After Alarm Relay acts，it needs to trigger it again to recover.
  - Latch：After Alarm Relay acts，it needs to enter disarm code to recover.
- Alarm Action Time (Sec.)：Alarm Relay action time; Default is 1 second.

【Exit Button Status】Change the exit button contacts status, it includes Short-Circuit Action (Normally open, default), Open-Circuit Action (Normally Closed), and Closed. (Not support HAC-971 Series)

【Activate Case Sensor】Enable or Disable case sensor function. The default is to "disable" the case sensor. In case of selecting "Enable", the device will make alerting beep sounds

while being sabotaged. It has to enter disarm code to disarm the device.

【Door Sensor Status】Change the door sensor contact status, it includes Short-Circuit Action, Open-Circuit Action and closed (default).

【Door Sensor Detection Time (sec)】After the preset the time (sec) to start detecting whether the door is ajar. The preset time is how long after unlock-time ends to start detecting. The default value is 0 second. The function of door ajar will be activated only after enabling this function.

【Door sensor Detect (Alarm) mode】Select to make the alerting sound by readers' buzzer (Beep! Beep! Beep!) or by external alarm (relay). The default setting is by Reader Buzzer but needs to work with the settings of Door Sensor detection time (sec).

e.g.: Preset the unlock door time is 4 seconds, Alarm action time is 5 seconds, Door Sensor detection time (sec) is 10 seconds and the，Door sensor detect (Alarm) mode is by Alarm (relay).

Description：After unlocking the door, normally, it will automatically relock 4 seconds later; if the door is unable to relock and still held open, it will start counting time to 10 seconds and then trigger the alarm for 5 seconds by the alarm (relay) mode.

【Relay Model Setting】

- Relay Mode：Set Relay mode; the default mode is 0.
  - ■ Mode 0((Door/Door/Alarm or Siren)：The built-in relay in the device is for lock (door-control); the first relay of optional ACU-30 is for lock (door control) and the second relay is for Alarm or Siren.
  - ■Mode 1(Doorbell/ Door/Alarm or siren)：The built-in relay is for doorbell, the first relay of optional ACU-30 is for lock and the second relay is for Alarm or Siren.

  Note: To change the siren action to alarm action, please clear the siren timetable and then re-download it to change the relay into Alarm.
- Bell Action time (sec)：How long the doorbell rings after visitor rings the bell. (default is 4 seconds)

【Assigned IN/OUT】：Assign primary reader/slave reader to display “IN” or “OUT” when they receive event. (Only for HAC-710 Series/HAC-A12 /HAC-971)

Door-Control Devices：

- First Card to Conditional Unlock; The door will still stay closed if un-swiping the first card when the conditional unlock time schedules are reached.
- Save Invalid Card Records：Tick it to store invalid transactions.
- Disable Holiday Conditional Unlock：Tick it to disable conditional unlock time schedules on holidays.
- Activate Alarm Under Duress(Code)：Tick it to activate alarm action under duress.
- Force To Close Door But Accept Duress Code：Tick it to force door closed but need to enter duress code.
- Anti-pass back Function：Tick it to enable Anti-Pass back function.
- Push Button with voice：When pressing the push button to open the door, controller will make a sound.
- Invalid card triggers alarm: An alarm is triggered when an invalid card is swiped. (Only support HAC-971)
- Activate 1:1 Authentication：Need to input card number or swipe card before scan biometric characteristics to open door. The default is 1:N model, only scan fingerprint to unlock door. (Only for HAC-710F Fingerprint Series)
- Conditional Unlock Time Schedules：Set None or 0~127 time schedules; Set certain time schedules as conditional unlock time schedules for free access.
- Keypad Lockdown Function Time Schedules：Set None or 0~127 time schedules; Set certain time schedules to disable keypad function during these preset time schedules.
- Primary Reader Password Check Time Schedules：Set None or 0~127 time schedules that press password is a must during these preset time schedules.
- Slave Reader Uncheck Time Schedules：Set None or 0~127 time schedules that, during these preset time schedules, all card numbers downloaded to the controller are deemed valid so no need to check password on reader.
- Slave Reader Password Check Time Schedules：Set None or 0~127time schedules that need to check password (for Entry or Exit) on salve reader during these time schedules.
- Master card：Enter setting mode by the master card number(default 30191000); Please refer to hardware user manual to operate under the setting mode.
- Disarm code：Disarm the system which are triggered under duress or external sabotage; Default disarm code is 0000.
- Duress Code：Press duress code to unlock door and activate alarm at the same time; default duress code is 1190.
- Re-swipe Card Check Time (sec)：Within the preset time, re-swipe the same card will

be deemed ineffective, won't be recorded and will make an error soun. The default setting is 0, the max. amount of time is 255 seconds.

【Card Swipe Modes】

- Card Swipe Only：Only by card swipe to unlock
- Card / Code：By card swipe or keypad press to unlock
- Card Swipe and Password：Activate the access mode by card swipe and password. If the password is not entering in cardholder information, the door will open upon swipe valid cards.

【Slave Reader】

- Slave Reader (T2)：The reader supports T2 format and the system sends back 10-digits card number 10-digits.
- Slave reader (Wiegand26, 8 digits)：The reader supports Wiegand 26 format and the system sends back 8-digits card number.
- Slave Reader (Wiegand26, 10 digits)：The reader supports Wiegand 26 format, the system get 8-digits card number and then automatically pad 2 leading zeros to send back 10-digits card number.
- Slave Reader (Wiegand34, 10 digits)：The reader supports Wiegand34 format and the system sends back 10-digits card number.

5-3-10 Time Attendance Parameters (HAC-100/101/HAC-710/HAC-A12/HAC-971)

To Change device's time attendance function

Operating Steps：

1. Select the device to change parameters
2. Press "Read" to get the existing setting values
3. Change the parameter settings：The below parameters can be changed

【Duty timetable】(Only for HAC-100/101)

1. Select the numeric button (1-4), each button (buttons 1-4) has 8 duty shifts for setting. Totally supports 32 duty shifts.
2. Tick the desired duty shifts to activate.
3. Enter start time, e.g.:0800.
4. Enter the names of the duty shift.

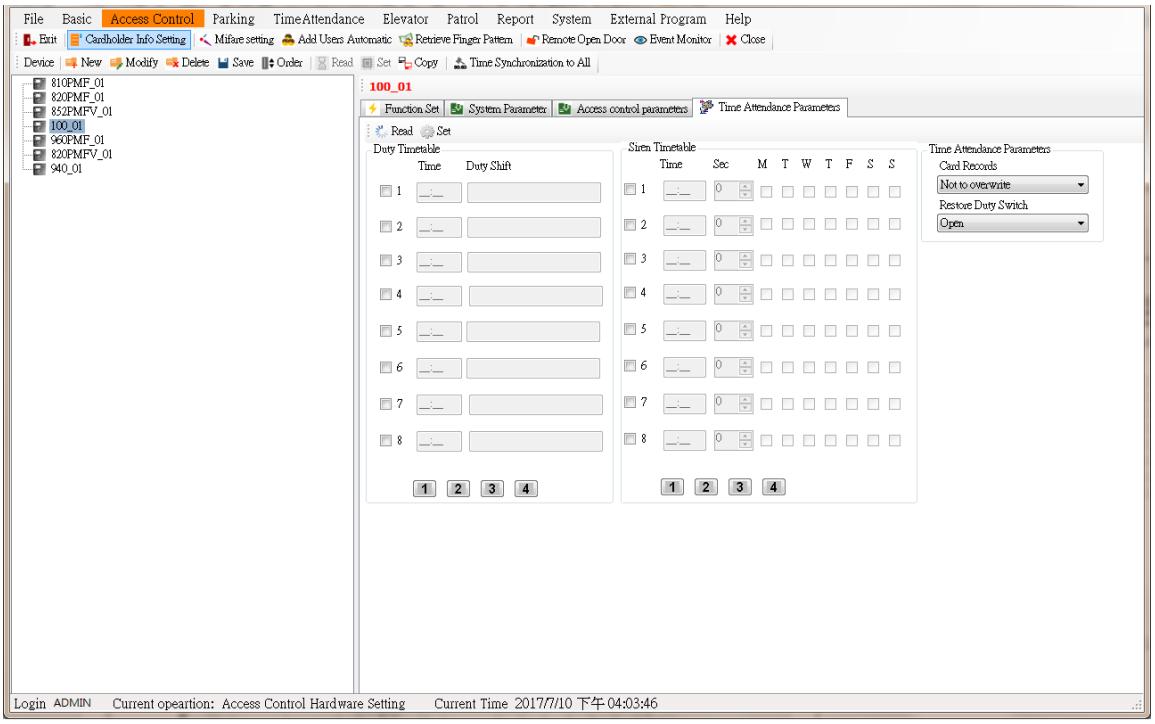
【Siren timetable】

1. Select the numeric button (1-4)，each button (buttons 1-4) has 8 duty shifts for setting, totally supports 32 sirens.
2. Tick the desired Siren time to activate.
3. Enter start time, e.g.:0800.
4. Enter the duration (sec) the siren going off.
5. Select (tick) the days of week to activate the siren.

【Time Attendance Parameters 】

- ●Card Records：Selectable whether to overwrite the card swipe records or not when the memory is full.
- ●Restore Duty Switch：While manually switching the duty shift, whether the device automatically return to the current duty shift. (Only for HAC-100/101 Series)
  - ■ Enable：Automatically return to the current duty shift.
  - ■ Disable：It will stay at the manually switched duty shift (Not automatically return).
- ●Daylight Saving Time：(Not support for HAC-100/101 Series)
  - ■ Daylight Saving：Open or close this function.
  - ■ Adjust Mode：Time advance or delay.
  - ■ Date/Time Start：Start date and time
  - ■ Date/Time End：End date and time
  - ■ Adjust Minute：How many minutes should advance or delay.

4. Press "Set" to effect the changes.


File
Basic
Access Control
Parking
TimeAttendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare setting
Add Users Automatic
Retrieve Finger Pattern
Remote Open Door
Event Monitor
Close
Device
New
Modify
Delete
Save
Order
Read
Set
Copy
Time Synchronization to All
810PMF_01
820PMF_01
852PMFV_01
100_01
960PMF_01
820PMFV_01
940_01
100_01
Function Set
System Parameter
Access control parameters
Time Attendance Parameters
Read
Set
Duty Timetable
Time
Duty Shift
Siren Timetable
Time
Sec
M T W T F S S
Time Attendance Parameters
Card Records
Not to overwrite
Restore Duty Switch
Open
Login ADMIN
Current opeartion: Access Control Hardware Setting
Current Time 2017/7/10 下午 04:03:46

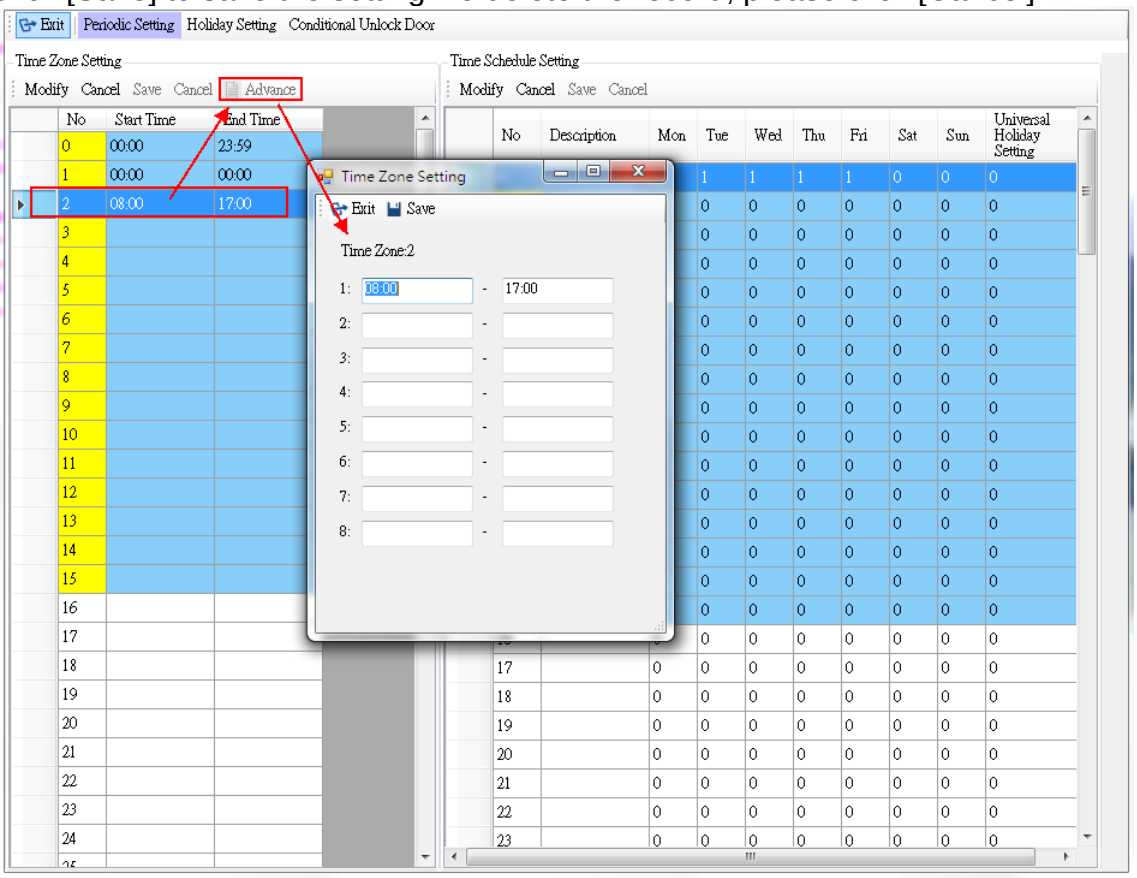
5-4 Access Control Time Schedule Setting (HAMS-19)

5-4-1 Set Time Zone and Time Schedule

Set time zone and time schedule. Definable 128 sets of time zone and schedule (RAC-940PE/PM/PMD only support 16 sets from 0~15). User can design different group for flexible access control. Click [Modify] to start the setting.

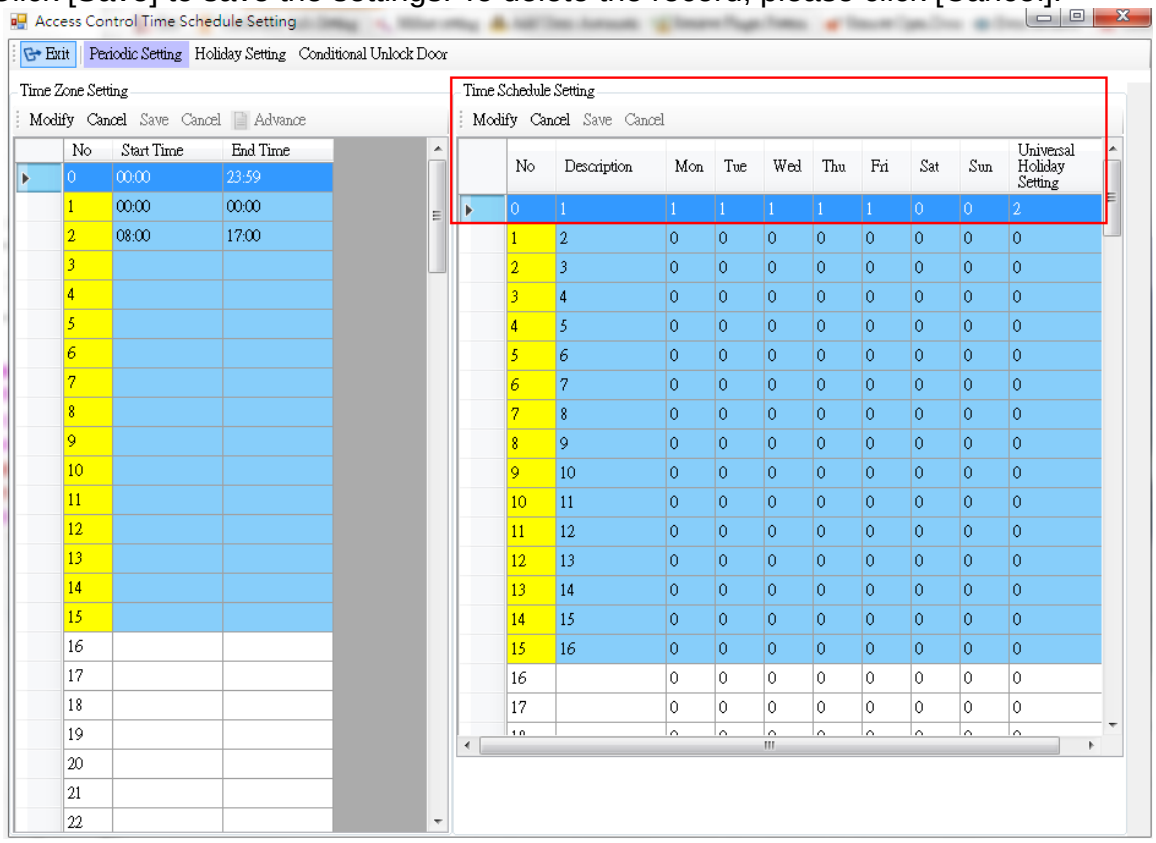
Set Time Zone:

1. Click [Modify] of time zone setting.
2. Input time (format：HHMM). Ex.：Time start from 0000 and 2359 for time end.
3. If the period is not continuous, please click “advanced” to perform the proper settings; One day can be divided into 8 sections at most (For HAC-100/101 only)
   Models that support 8 sets of schedules: RAC-960Px, RAC-970Px, RAC-971Px, RAC-852Px.
   Models that do not support 8 sets of schedules: RAC-940Px, RAC-810Px, RAC-850Px, RAC-852PxFV.
4. Click [Save] to save the setting. To delete the record, please click [Cancel].



Set Time Schedule:

1. Click [Modify] of time schedule setting.
2. Input time schedule name first. To set the time zone for each day, enter the time zone number (row number) with the desired time setting.
3. 【Universal-Type Reader Holiday Setting】: Holiday settings for universal-type device. Please enter the parameters here for the rules of holiday time schedule。(For HAC-100/101 only)
4. Click [Save] to save the settings. To delete the record, please click [Cancel].



5-4-2 Holiday Setting

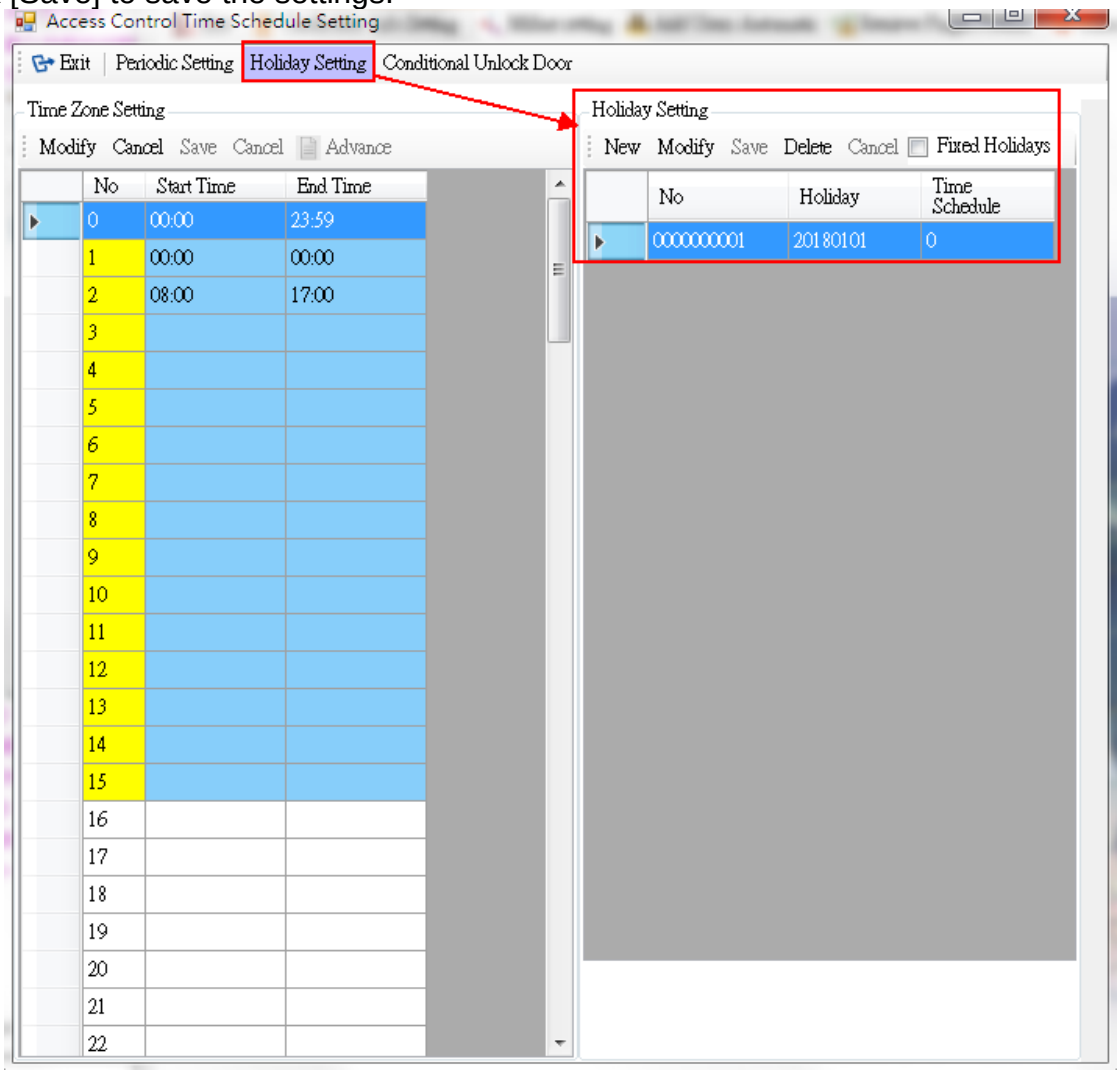
The holiday means National holiday or specific holiday.

Holiday means National holiday or specific date.

1.Click [New].

2.Input holiday date. Format is YYYYMMDD. Then set time zone by specifying the time zone number (row number) with the desired time setting.

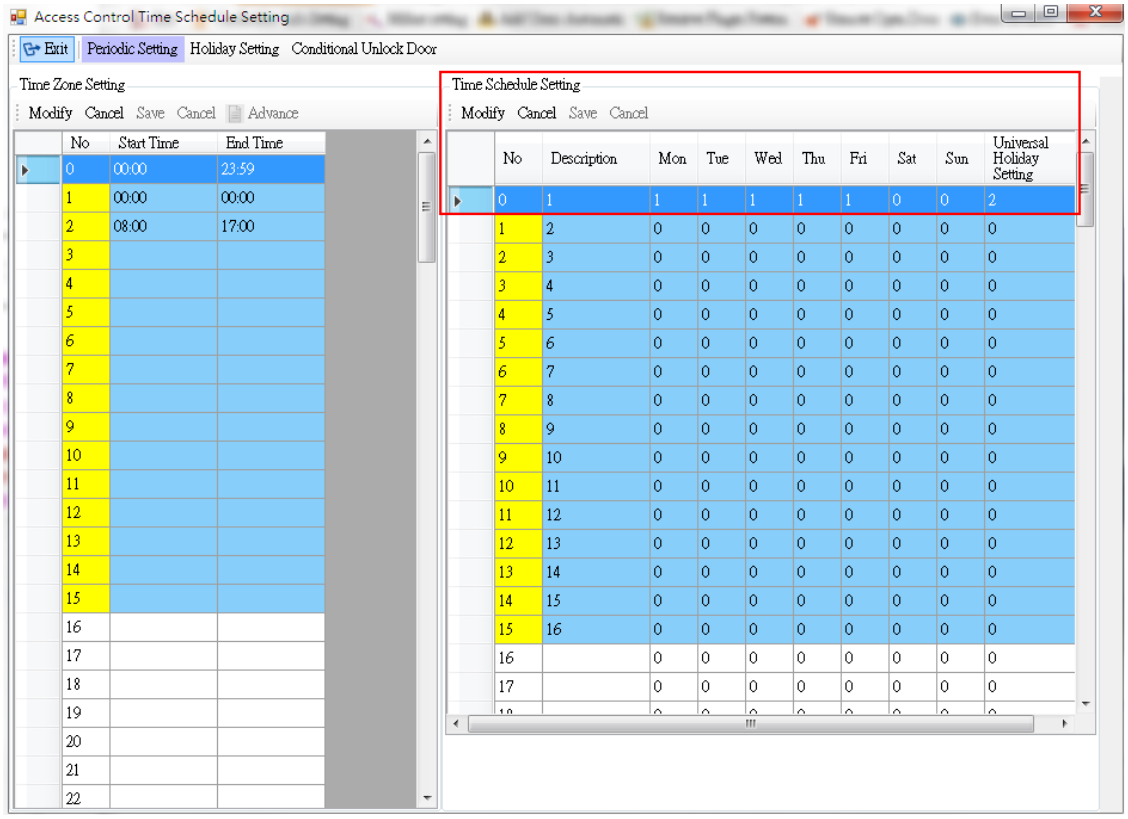
3.Click [Save] to save the settings.



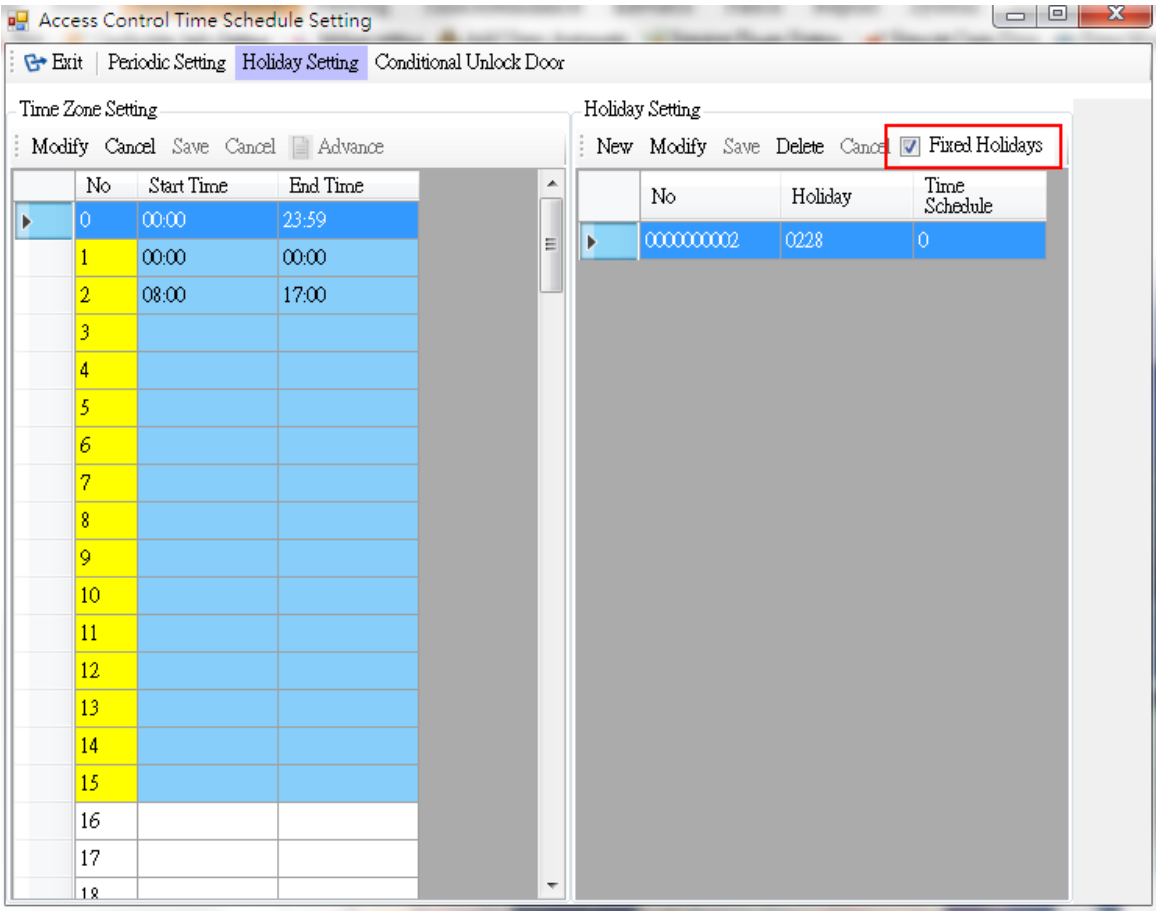
Note：

In the time schedule settings, if the holiday settings of universal-type device is entered, it will form the basis of the universal-type device to replace the original holiday settings; The original holiday settings will become void to the universal-type device.

e.g：In the time schedule settings, if you set No. to be “0”, time schedile’s name to be “1” ,set the holiday time schedule of universal-type device to be “2”; and if the holiday is 20180101 and time schedule is “0”, then the universal-type device will deem 20180101 to be a holiday and deem the time schedule to be 2, instead of the original “0”



4. If the holidays are fixed every year, please click the button "Fixed holidays" to add. Enter the holiday date. The date format is Month first then Date. Example：0101 (Month Date), then enter time schedule number.



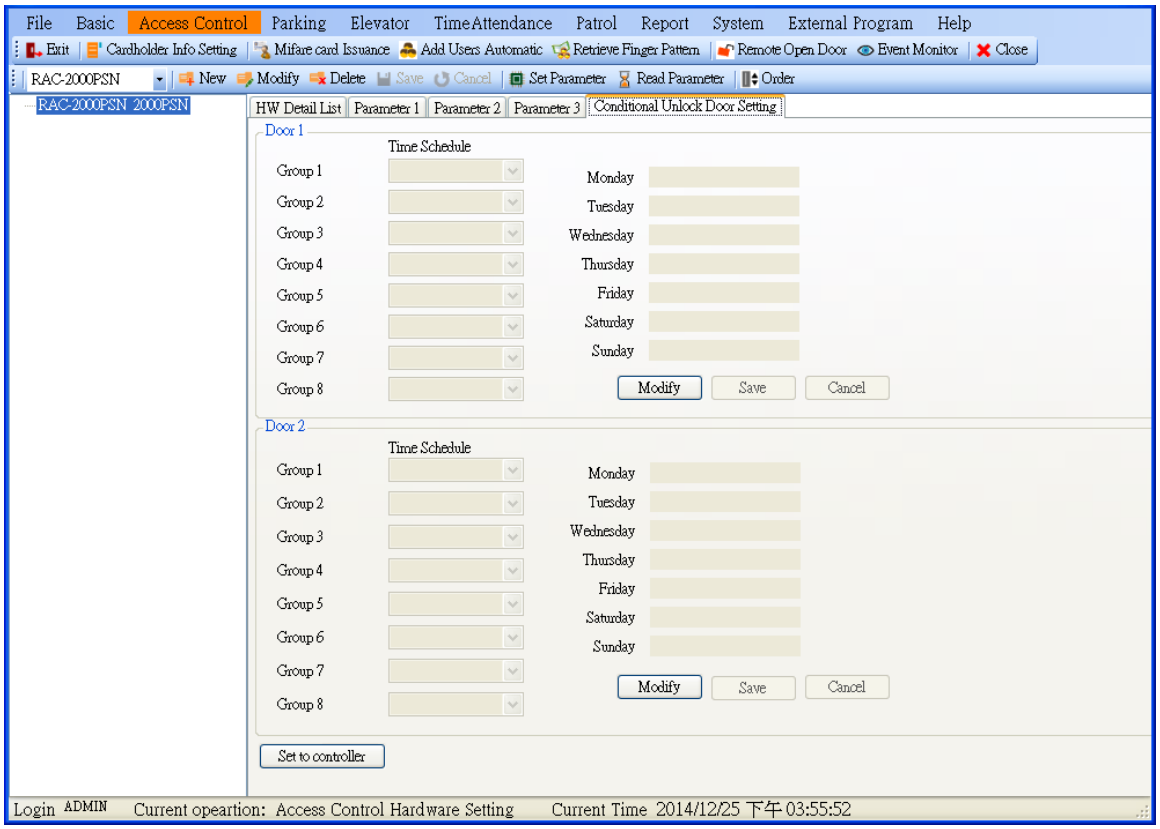
5-4-3 Conditional Unlock Door Setting

Operation Steps：

Every door has 8 time schedules.

1. Click「Modify」.
2. Select time schedule period which you had set in “Access Control Time Schedule Setting” function
3. Click「Save」to save the settings.
4. Before uploading the setting to controller, please make sure time zone and time schedule have been uploaded to controller.

Note: Priority authorization of access control is holiday schedule first. Then conditional unlock door and periodic time schedule.



5-5 Auth Setting (HAMS-19)

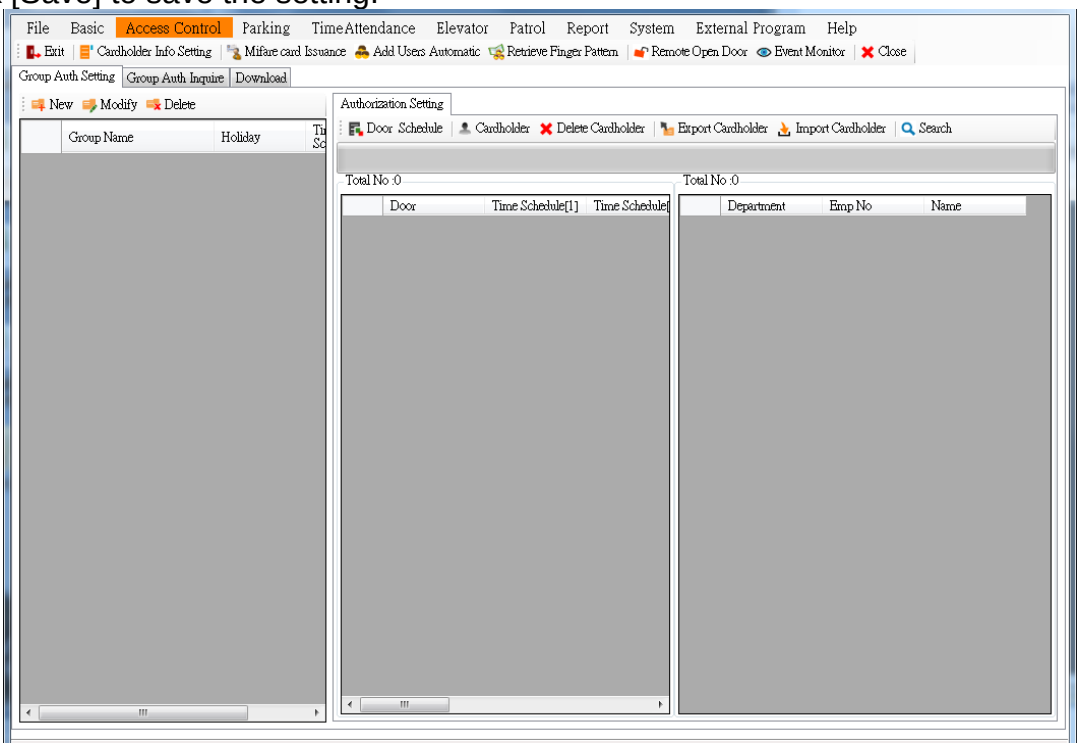
5-5-1 Group Authorization Setting

Create group and assign user authorization.

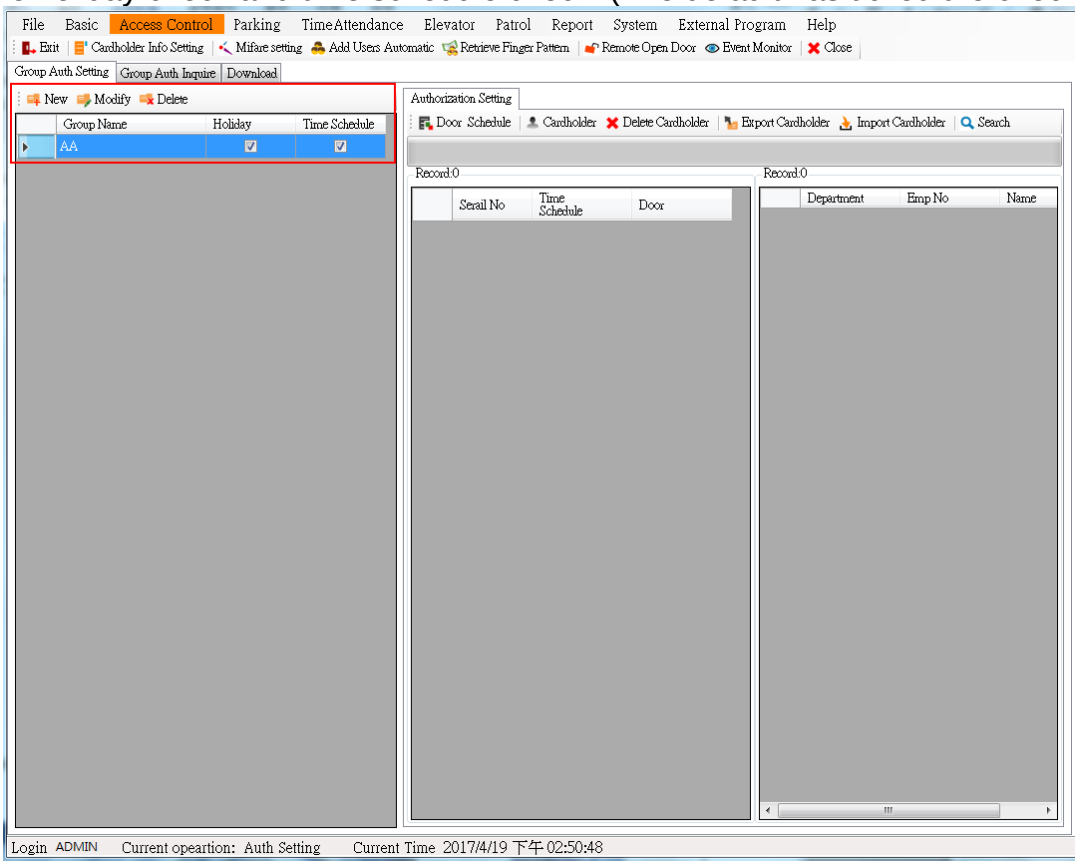
Note：Biometric Characteristics device may only assign a time schedule.

Operation Steps:

1. Click [New].
2. Input group name.
3. Click [Save] to save the setting.



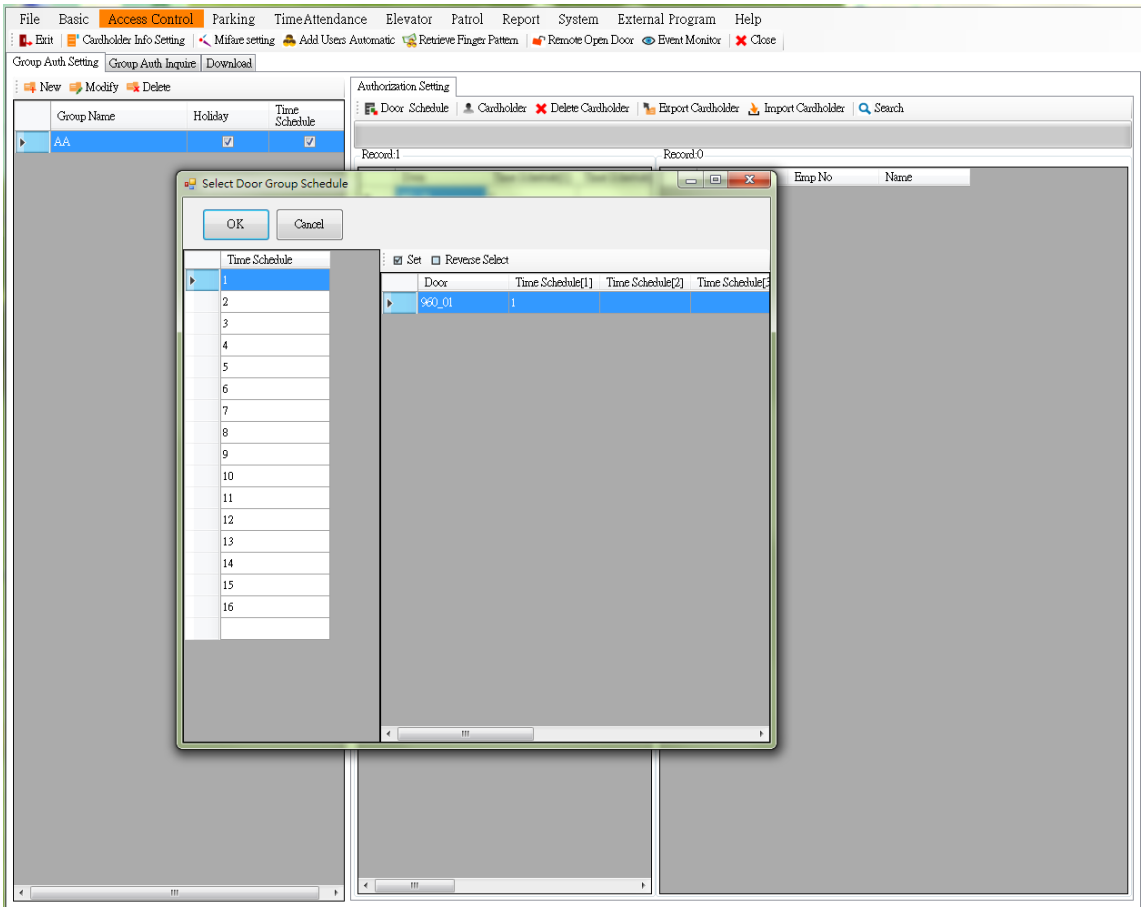
Enable holiday check and time schedule check. (The default has ticked the checkbox)

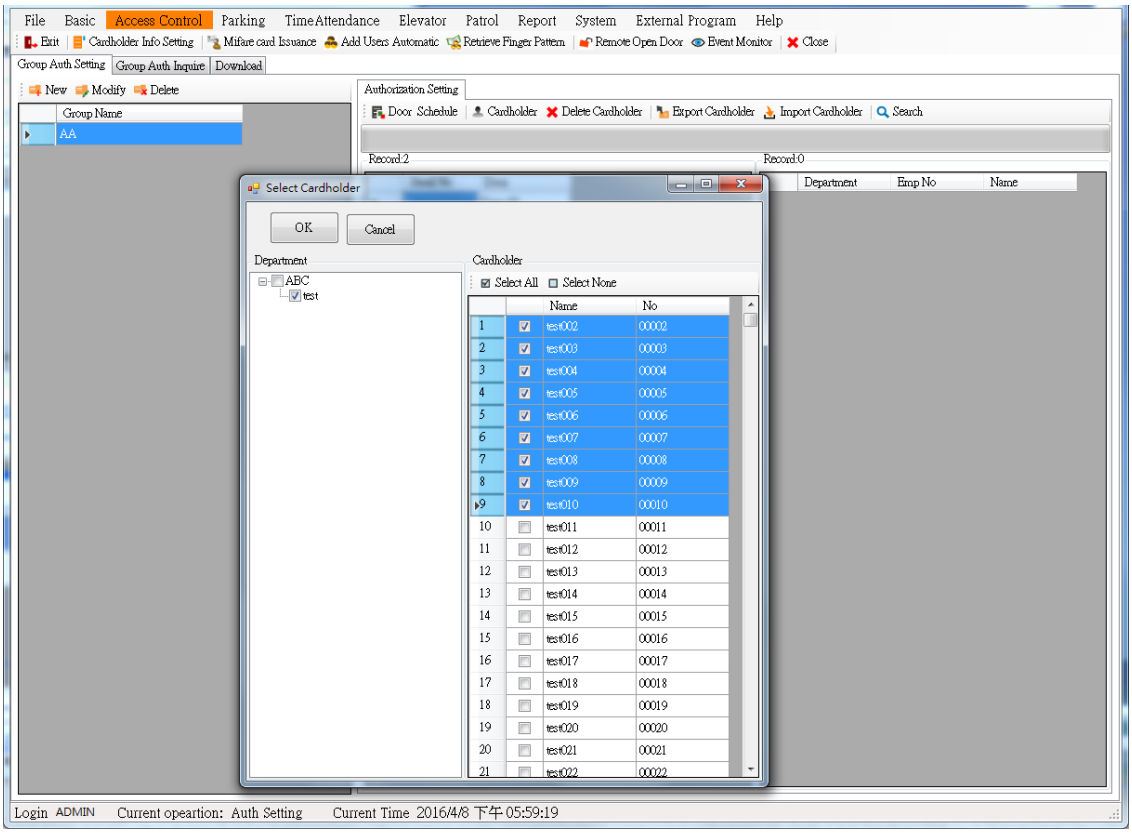


4. Go to [Door Schedule].Select a Time schedule from left side first. Then select the doors which you want to authorize.

   Hint：Speedy Selection：Press CTRL key and select doors by mouse or press SHIFT key and select doors successively by mouse.

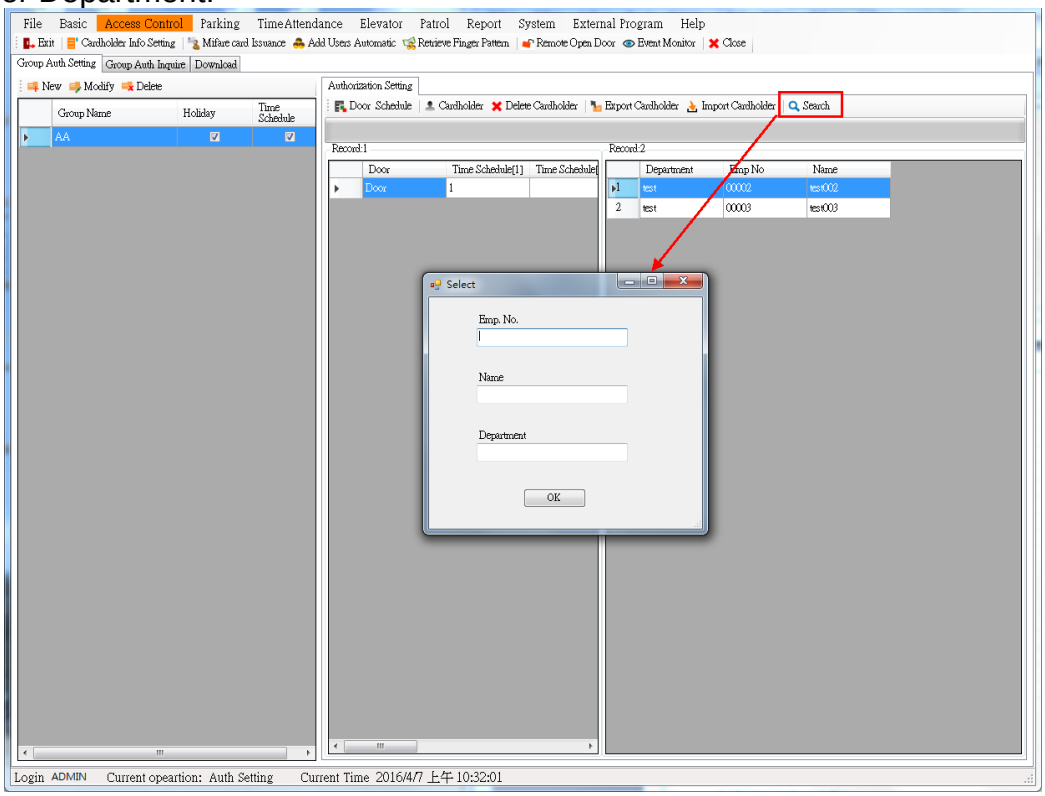
5. Click [OK].





6. Go to [Cardholder]. Tick the department then you will read cardholder list which belong the department. And then you can start to tick the cardholders.
7. Click [Save] to save the setting. If want to delete the selection, please remove the tick.

8. Able to use "Search" function according to the types of search criteria, like Emp. No, Name or Department.



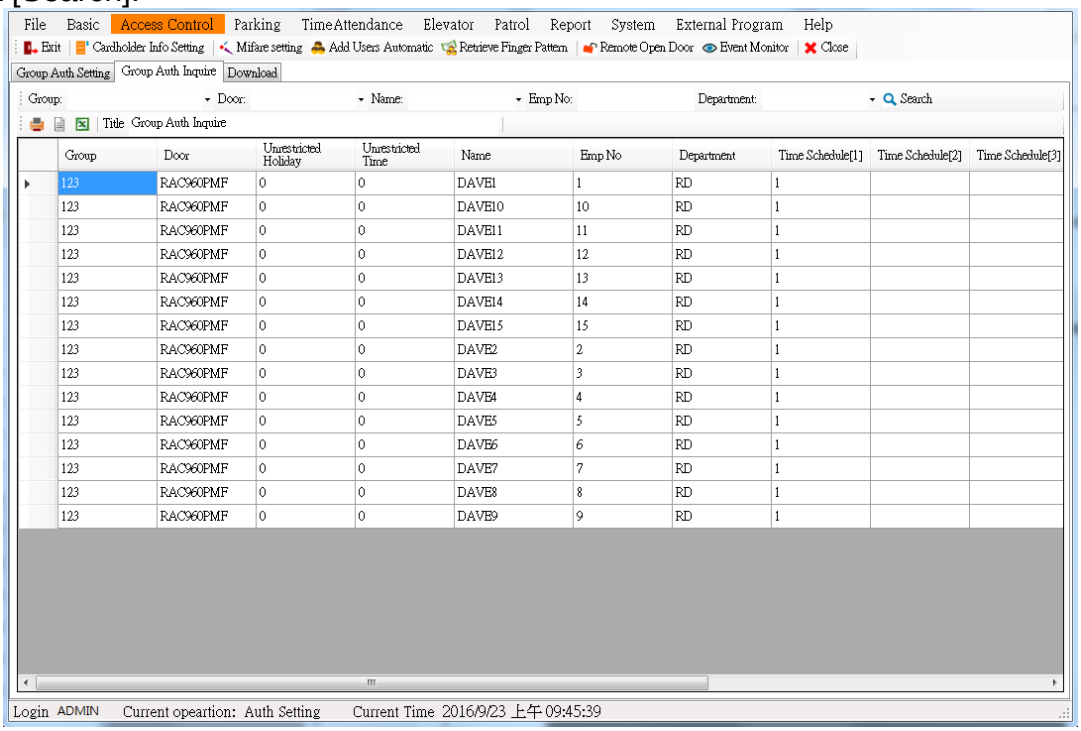
After setting completed, system also allows users to click [Export Cardholder] to produce a txt file base on the setting. The file only includes cardholder name and authority by department. This file may import to system and use for other group authorization

5-5-2 Group Authorization Inquire

Enquire user's authorization. Specify the range according to Group, door and User name. Report provides print function and can be converted to TXT or XLS format for other application.

Operation Steps:

1. Check dynamic drop-down menu, you will read group, door, time schedule and name.
2. Click [Search].

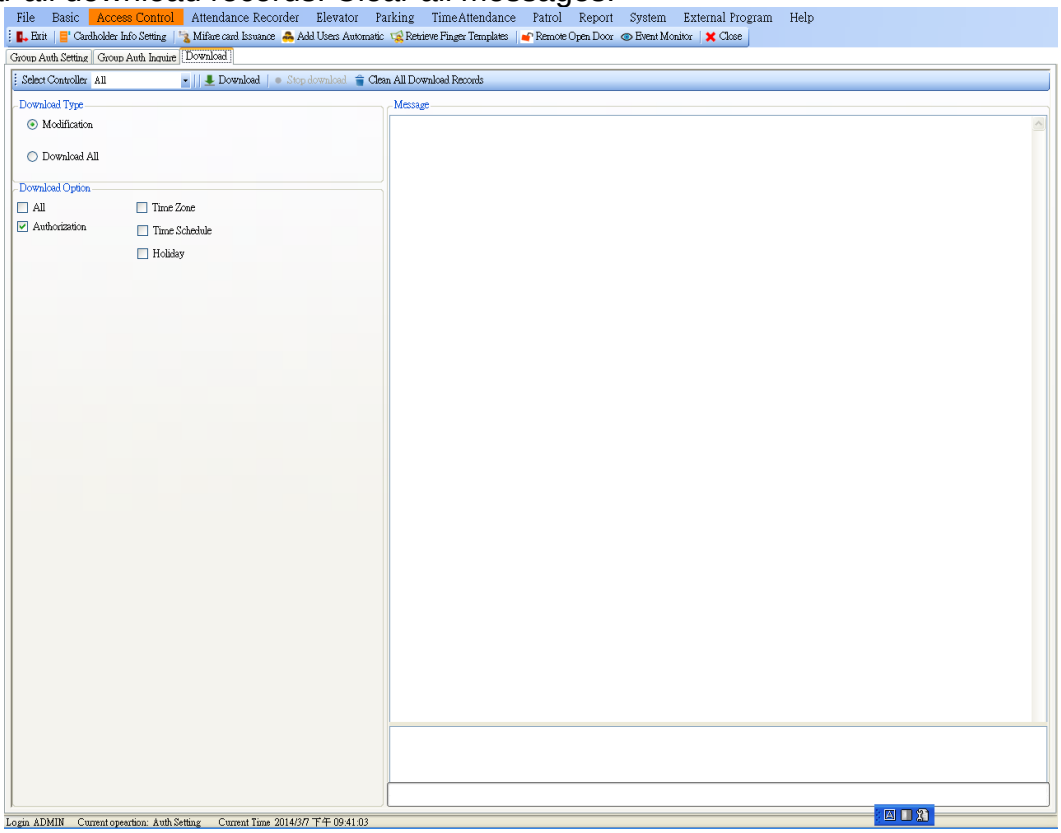


5-5-3 Download

Download users' authorizations to controller.

Operation Steps:

1. Select Controller: Select "All" or select single controller to downloading.
2. Download Type:
   - Download All: Download all users' information and authorizations.
   - Modification: Download modified users' information and authorizations.
3. Download Option: User can select download all options or select some settings to download,
4. Click [Download] to start the download.
5. Clear all download records: Clear all messages.



5-6 Access Control Hardware Setting (HAMS-20)

5-6-1 Hardware Detail List

Operation Steps：

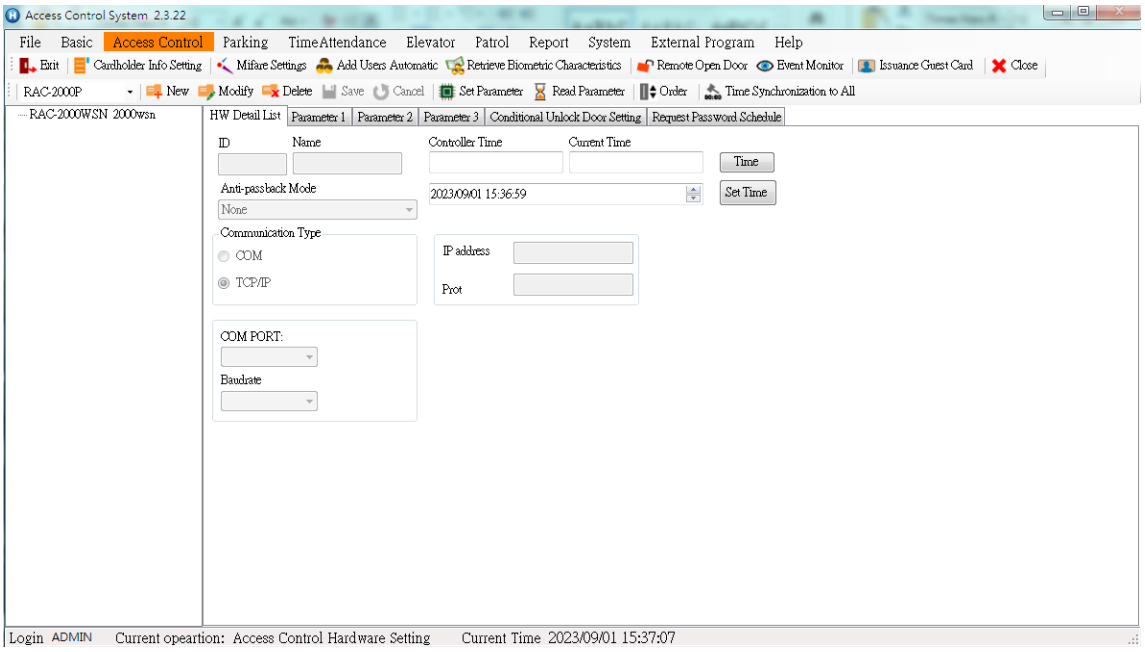
1. Select device model(RAC-2000P/RAC-2000G/RAC-2000PS/RAC-2000PN/ RAC-2000PSN/RAC-2000WS/RAC-2000WSN), then Click「New」.
2. Input ID (Default ID is 1)、Name、Anti Mode and communication type.
   - Anti-pass back Mode：

     0. None: Does not use Anti-pass back function. (Default)
     1. Door 1 In/Out only: Access only in Door 1.
     2. Anti by Reader
     3. Door 1 In/Door 2 Out

Model	Mode	Door Relay and Reader action
RAC2000G	1(Control single door)	Door1 IN & Out. (Reader1 for IN, Reader 3 for Out)
RAC2000P	1(Control single door)	Door1 IN & Out. (Reader1 and Reader 2 for IN & Reader 3 and Reader 4 for OUT)
RAC2000P	2(Control two doors)	Door1 IN (Reader1) & OUT (Reader 2) Door2 IN (Reader3) & OUT (Reader4)
RAC2000P	3(Control two doors)	Door1 IN (Reader1、2 for IN)& Door2 OUT (Reader3、4 for OUT)

   - Communication Type：Select COM PORT or TCP/IP. When using COM PORT, please make sure the COM PORT number and baud rate is 19200. When using TCP/IP, please input IP address and port.
3. Click “Save” to save the settings. Click “Time” to ensure if system is connected with device. Click “Set Time” to input the time to synchronize the time. Or click “Time Synchronization to All” to correct all devices time for time synchronization. Click ”Delete” to delete the device.

4. Click Order may sort the devices.

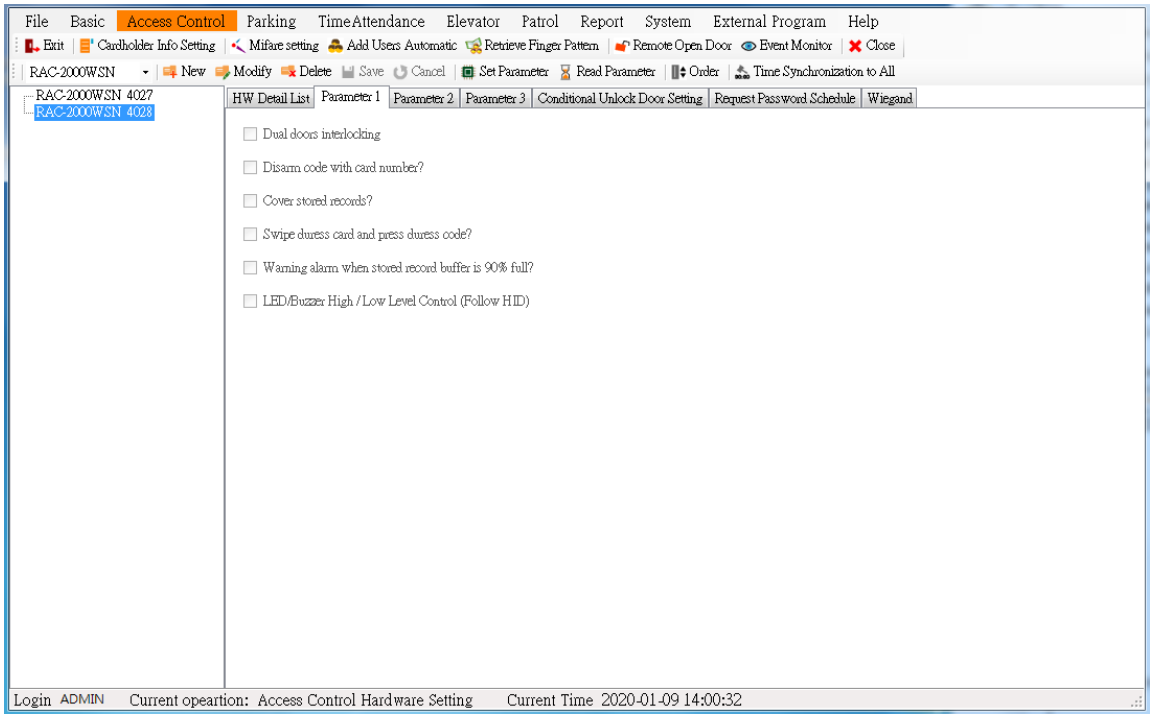


5-6-2 Parameter 1

Operation Step：

1. Select the controller on the left side
2. Click「Modify」.
3. Tick the check box to modify the parameter：
   - Two Door Interlock: One door has to close first before the other door can be opened.
   - Disarm code with card number：To disable the alarm, users need to press disarm code then swipe card.
   - Cover stored records：Select to overwrite data or stop saving data when the storage limit is exceeded.
   - Swipe duress card and press duress code：To activate alarm, user needs to swipe duress card then press duress code.
   - Warning alarm when stored record buffer is 90% full：When stored records reach 90% full, system will activate a warning alarm.
   - LED/Buzzer High/Low Level Control(Follow HID)： Once the checkbox ticked here, the High / Low level (Active High or Active Low) will be changed (For the models RAC-2000WS/WSN only)

4. After clicking「Save」, please download the parameter for the settings to take effect.

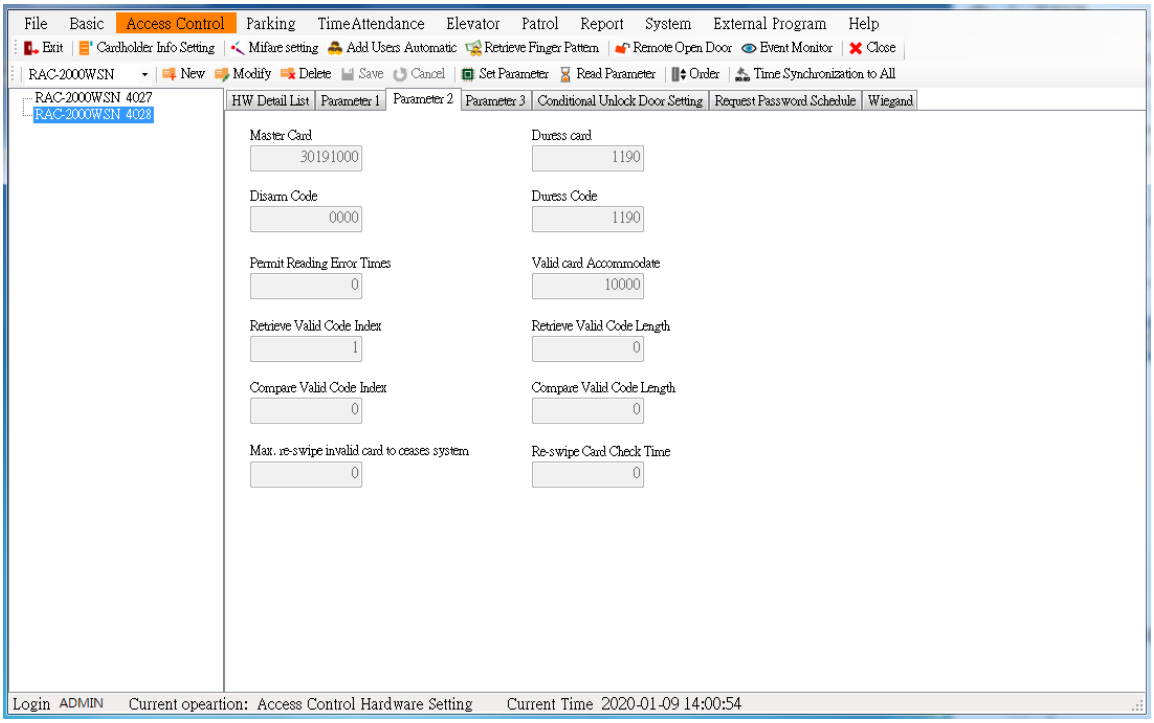


5-6-3 Parameter 2

Operation Steps：

1. Select the controller on the left side.
2. Click「Modify」.
3. Parameter contents：
   - Master Card：Required to enter setup mode. Kindly refer to hardware manual.
   - Duress Card：Alarm will be activated and door will be opened upon swiping duress card.
   - Duress Code：Alarm will be activated and door will be opened upon pressing duress code.
   - Disarm Code：To deactivate the alarm, disarm code is inputted.
   - Number of re-swipe card to signal warning：Allowed error times of re-swiping the same card. To enable this function, “Max. re-swipe invalid card to ceases system” function should also be activated.
   - Max. No. of valid card：Default is 10000pcs, maximum is 15000pcs.

   *** Changing valid card quantity, will re-allocate the memory of the controller. All old records and authorization in the controller will be cleared!!
   - Retrieve Valid Code Index：The index digit of retrieve valid card number.
   - Retrieve Valid Code Length：How many digits you want to retrieve of valid card no. Ex: Card No. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card number should be 234567 too, otherwise the door will not open.
   - Compare Valid Code Index：The index digit of compare valid card number.
   - Compare Valid Code Length：How many digits you want to compare. Ex: Card No. is 1234567890, if compare index is 1, compare length is 3. Valid cards with number starting with 123 will be granted access.
   - Max. re-swipe invalid card to ceases system：How many seconds the device will stop working when re-swiping invalid card. After a certain period of time, the device will function again. This function works hand in hand with “Number of re-swipe card to signal warning” Function.
   - Re-swipe Card Check Time (0-255 sec): This is the time for checking the card repeatedly. As the time is set, when swiping the card more than once within a preset time, system will not record the event and make beep sound.
4. After click「Save」, please download the parameter for the settings to take place.


File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare setting Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
RAC-2000WSN New Modify Delete Save Cancel Set Parameter Read Parameter Order Time Synchronization to All
RAC-2000WSN 4027
RAC-2000WSN 4028
HW Detail List Parameter 1 Parameter 2 Parameter 3 Conditional Unlock Door Setting Request Password Schedule Wiegand
Master Card
30191000
Duress card
1190
Disarm Code
0000
Duress Code
1190
Permit Reading Error Times
0
Valid card Accommodate
10000
Retrieve Valid Code Index
1
Retrieve Valid Code Length
0
Compare Valid Code Index
0
Compare Valid Code Length
0
Max. re-swipe invalid card to ceases system
0
Re-swipe Card Check Time
0
Login ADMIN Current opeartion: Access Control Hardware Setting Current Time 2020-01-09 14:00:54

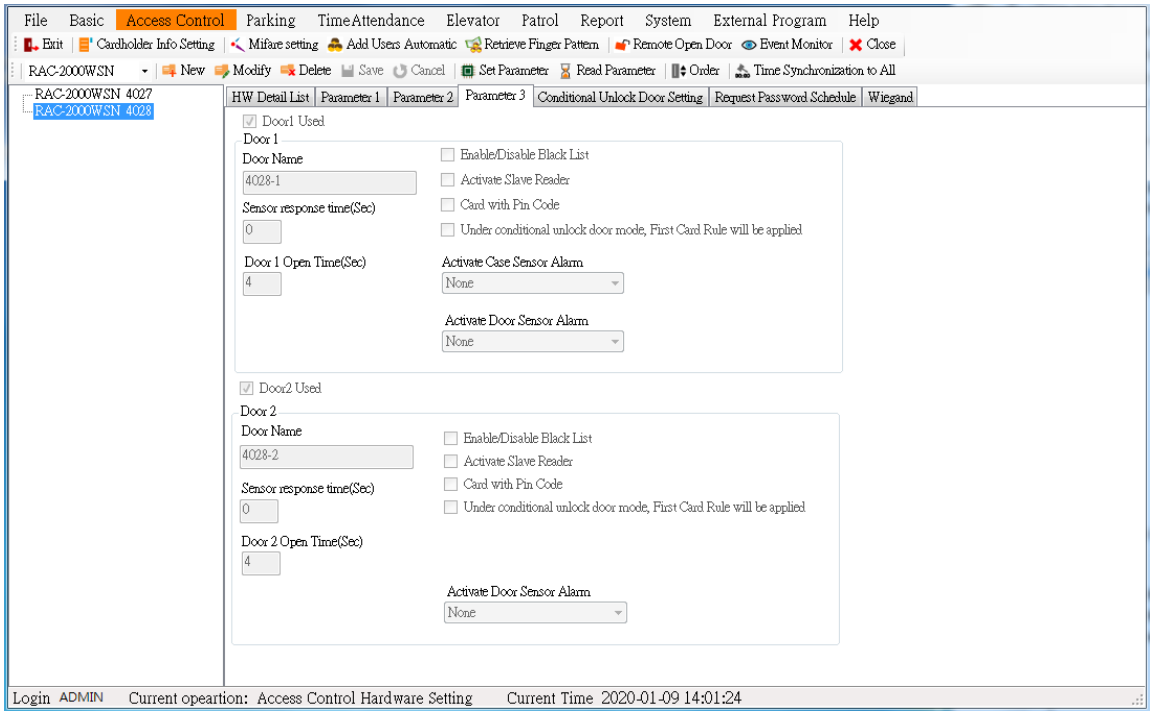
5-6-4 Parameter 3

Operation Steps：

1. Select the controller on the left side.
2. Click「Modify」.
3. Parameter contents：
   - Start using Door 1&2：Depending on current device structure, if devices aren't set to have Door 1&2, ticking the check box will not have any effect.
   - Door Name：Please input door name.
   - Sensor response time (sec)：Time allowed for door prop before door sensor activate the alarm. Door sensor alarm should be activated in order to have this function work properly. The alarm will be activated until you close the doors.
   - Door 1&2 Open Time(sec)：Door 1&2 relay activation time.
   - Enable/Disable Blacklist：To enable blacklist, user need to set the card as blacklist card in cardholder information. When a blacklist card is swiped, alarm will be activated.
   - Activate slave reader：Tick the check box for time & attendance management or patrol management.
   - Card with pin code：Request swipe card then press pin code for access. To activate this function, enter the password in cardholder information and download to controller.
   - Under conditional unlock door mode, First Card Rule will be applied： When it comes to the conditional unlock time schedules, it Must present the first valid card to activate the conditional unlock door time schedules. If not, the door still stay locked even though it already comes to the conditional unlock time schedules
   - Activate Case Sensor Alarm：There are four choices. (Will be applied to Door 1 and Door 2)
     a. None
     b. Alarm Relay(Activate Alarm Relay)
     c. Reader Buzzer(Reader Buzzer makes sound)
     d. Alarm Relay + Reader Buzzer (Both alarm & reader buzzer make sound)
   - Activate Door Sensor Alarm：This function works with "Sensor response time" function. There are four choices.
     a. None
     b. Alarm Relay(Activate Alarm Relay)
     c. Reader Buzzer(Reader Buzzer makes sound)

d. Alarm Relay + Reader Buzzer Both alarm & reader buzzer

4. After clicking「Save」, please download the parameter for the settings to take effect.



NOTE:

1. **If the reader is a biometric reader, in addition to setup the parameters in the below window, it also needs to setup the related parameters in the window of "Biometric Reader Setting".**

5-7 Access Control Time Schedule Setting(HAMS-20)

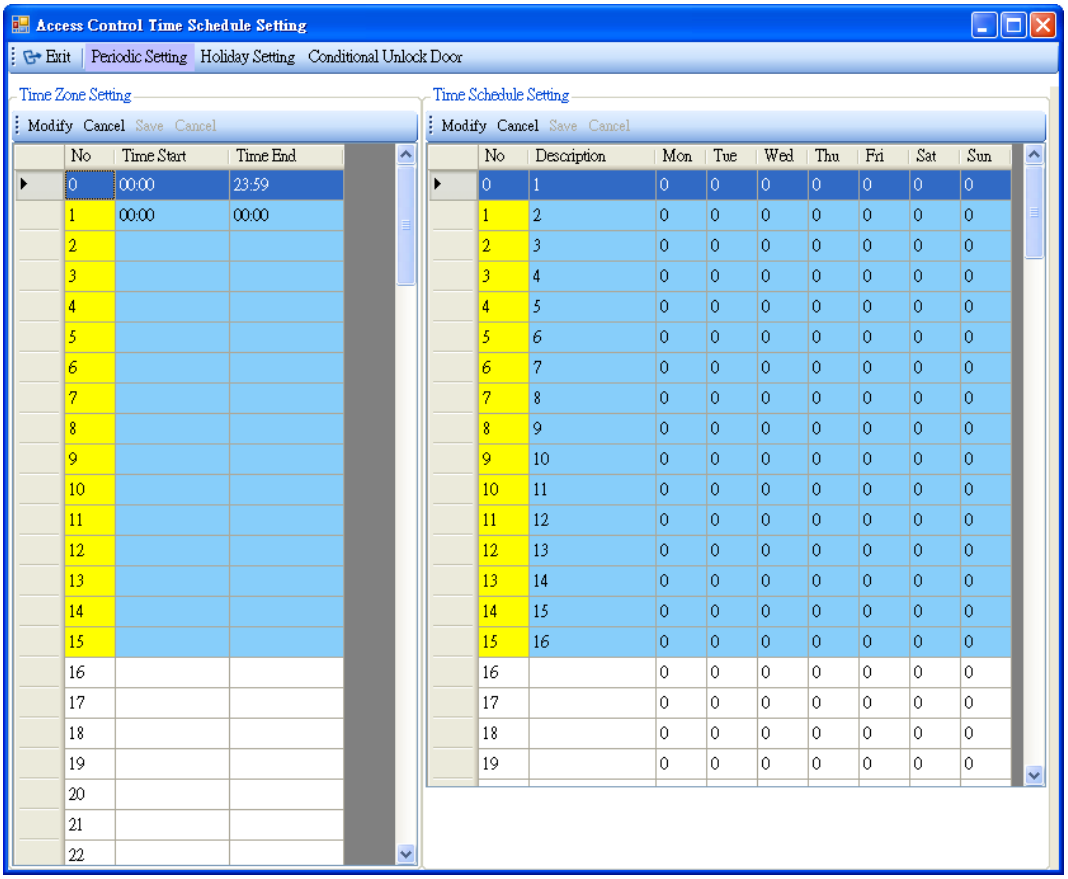
Set time zone and time schedule. Definable 128 sets of time zone and schedule. User can design different group for flexible access control. Click「Modify」to start the setting.

5-7-1 Set Time Zone (General Time Schedule Setting)

1. Click「Modify」of time zone setting.
2. Input time (format: HHMM). Ex.: Time start from 0000 and 2359 for time end.
3. Click 「Save」to save the setting. To delete the record, please click「Delete」.

Set Time Schedule：

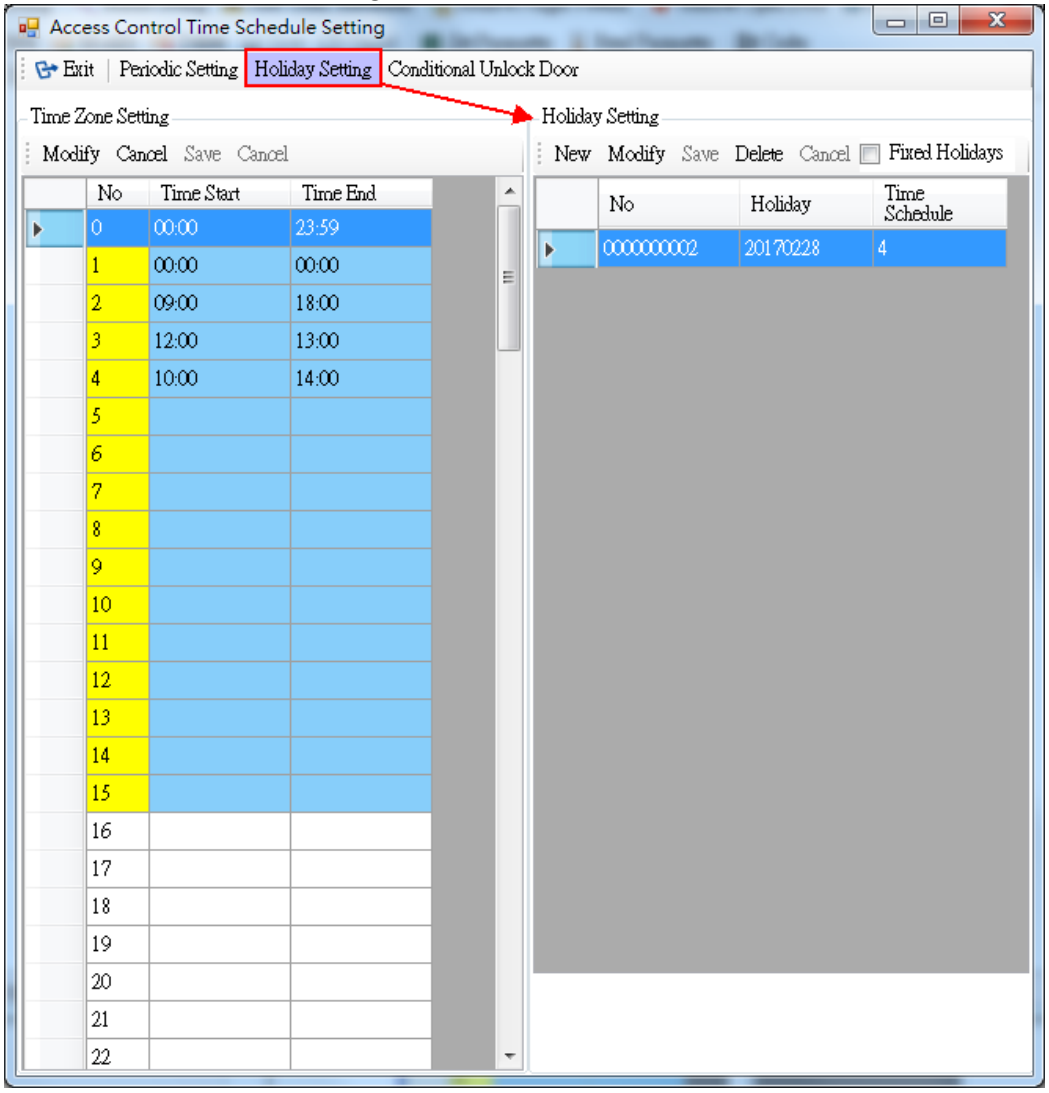
1. Click「Modify」 of time schedule setting.
2. Input time schedule name first. To set the time zone for each day, enter the time zone number (row number) with the desired time setting.
3. Click 「Save」to save the settings. To delete the record, please click「Delete」.



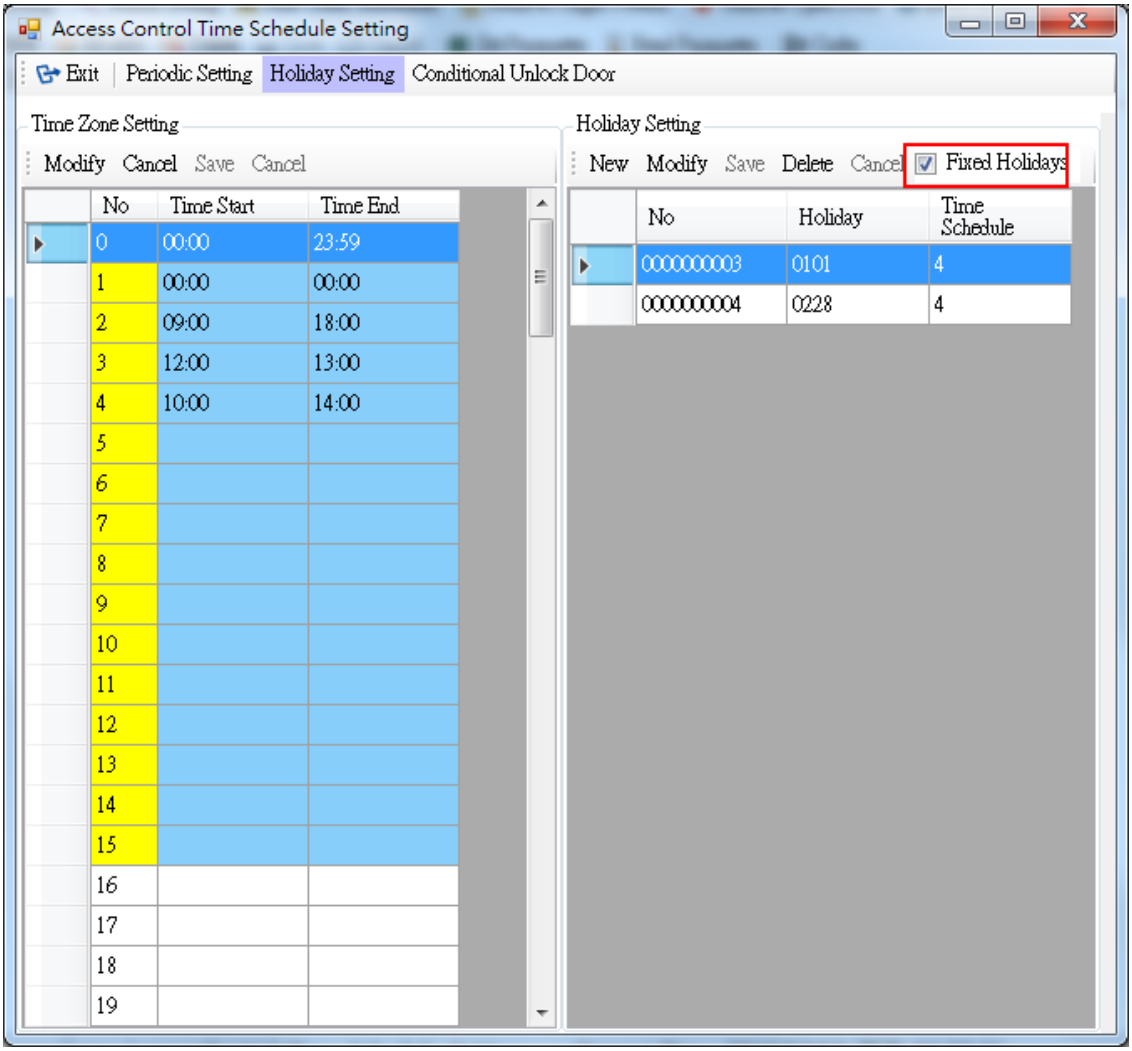
5-7-2 Holiday Setting

Holiday means National holiday or specific date.

1. Click「New」.
2. Input holiday date. Format is YYYYMMDD. Then set time zone by specifying the time zone number(row number) with the desired time setting.
3. Click「Save」to save the settings.



5. If the holidays are fixed every year, please click the button "Fixed holidays" to add. Enter the holiday date. The date format is Month first then Date. Example : 0101 (Month Date), then enter time schedule number.


Access Control Time Schedule Setting
Exit
Periodic Setting
Holiday Setting
Conditional Unlock Door
Time Zone Setting
Modify
Cancel
Save
Cancel
No
Time Start
Time End
0 00:00 23:59
1 00:00 00:00
2 09:00 18:00
3 12:00 13:00
4 10:00 14:00
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
Holiday Setting
New
Modify
Save
Delete
Cancel
Fixed Holidays
No
Holiday
Time Schedule
0000000003 0101 4
0000000004 0228 4

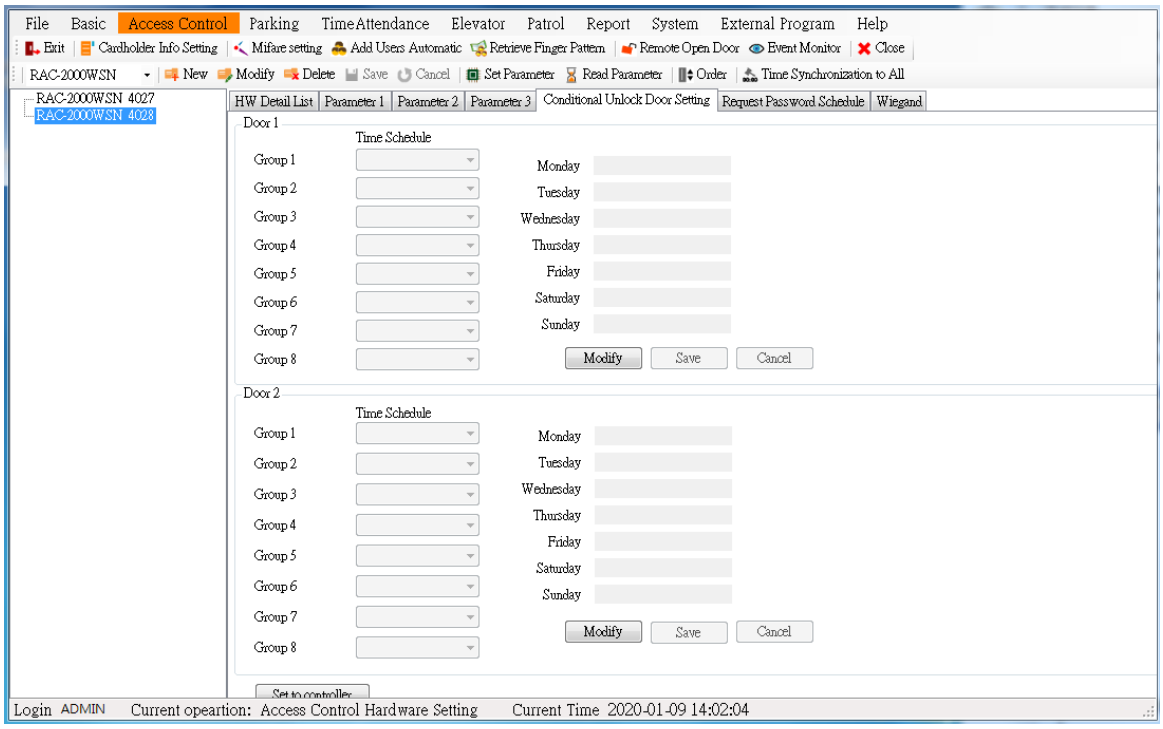
5-7-3 Conditional Unlock Door Setting

Operation Steps：

Every door has 8 time schedules.

1. Click「Modify」.
2. Select time schedule period which you had set in “Access Control Time Schedule Setting” function
3. Click「Save」to save the settings.
4. Before uploading the setting to controller, please make sure time zone and time schedule have been uploaded to controller.

Note: Priority authorization of access control is holiday schedule first. Then conditional unlock door and periodic time schedule.



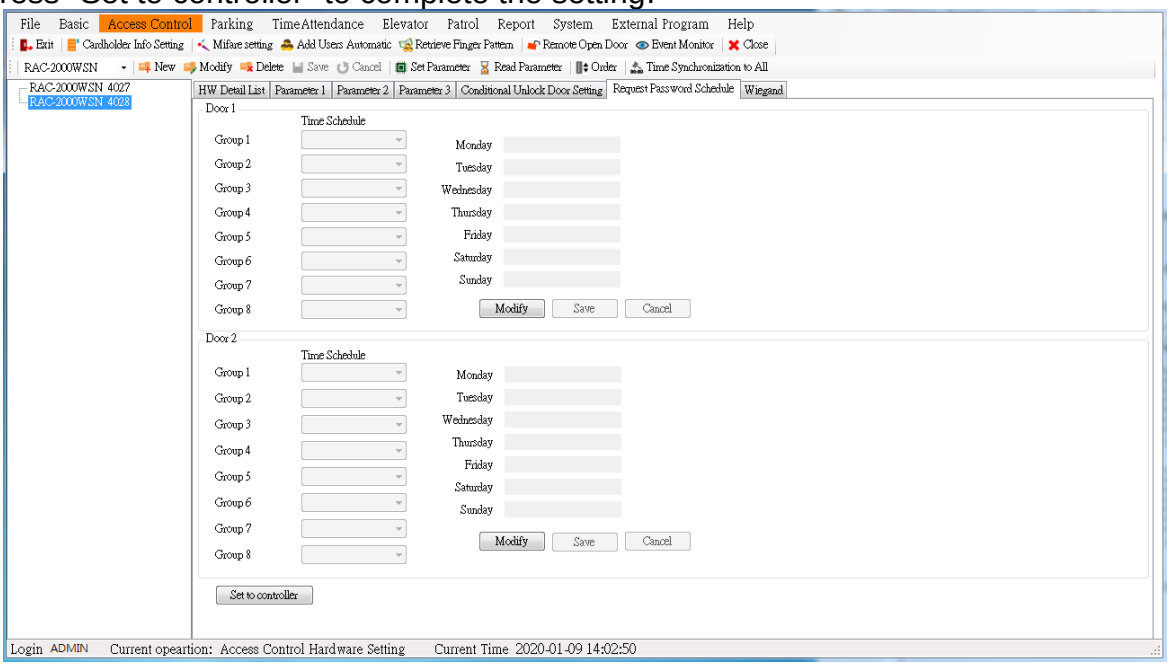
In addition, if the checkbox of "Under conditional unlock door mode, First Card Rule will be applied" is ticked, it means the first valid card Must be presented to activate the conditional unlock (door) time schedule. If not, the door still stay locked even though it already comes to the conditional unlock time schedules

5-7-4 Request Password Schedule

Set the time schedules that need to enter password after read the card to unlock door

Operation steps：

1. Select the doors.
2. Select the time schedules which already set in the settings of time schedules.
3. Press "Save".
4. Press "Set to controller" to complete the setting.

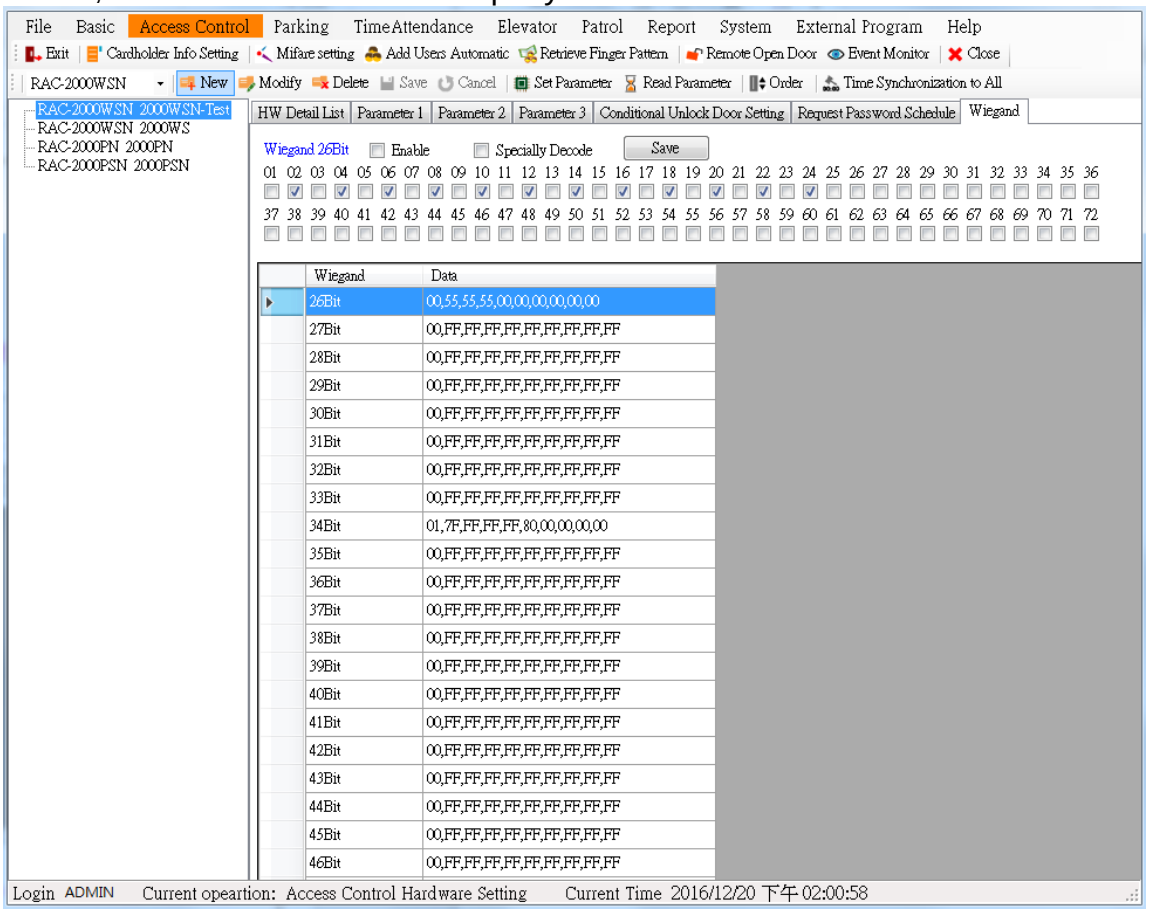


5-7-5 Wiegand (RAC-2000WS/2000WSN)

This is for setting Wiegand decoding. The default setting is for Wiegand 26 and Wiegand 34

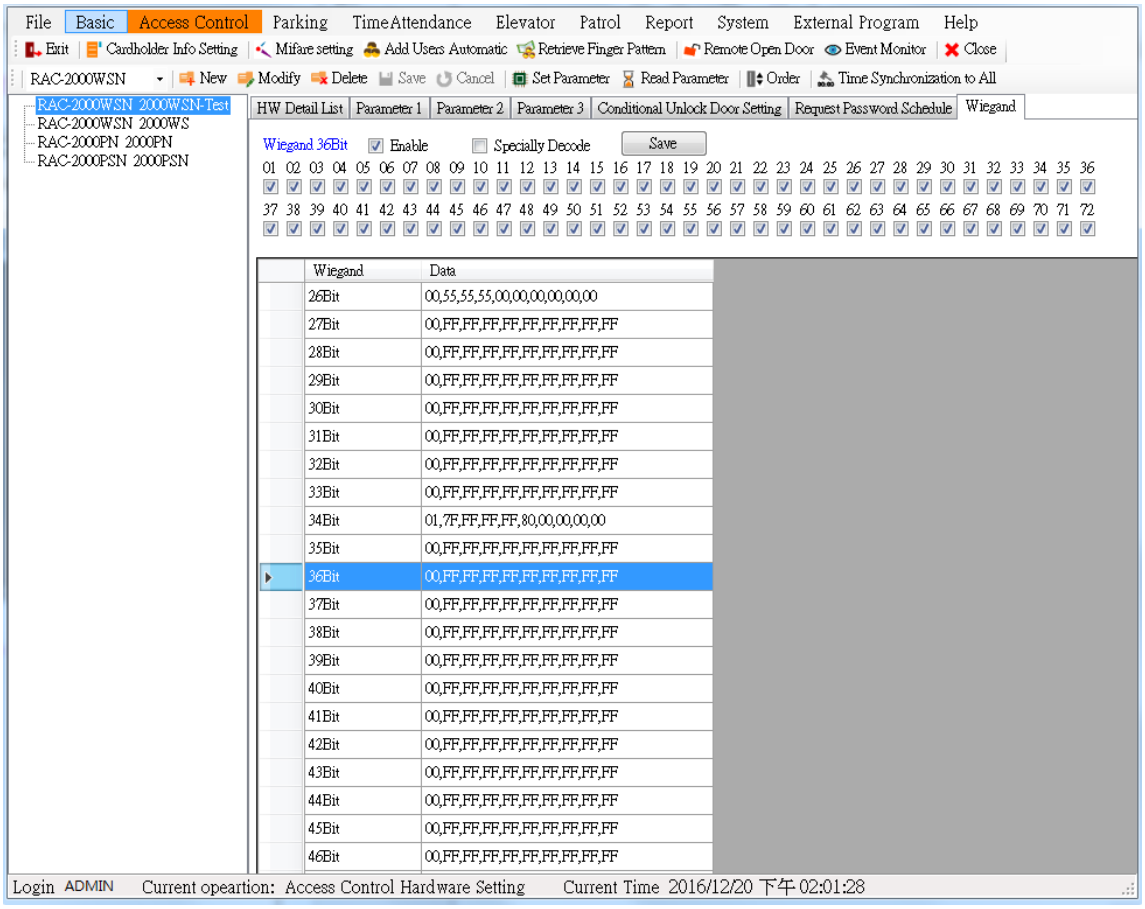
Enable：Tick the box to enable Wiegand decoding.

Specially Decode：Tick the box for special decoding rule that user can make it himself. If not tick the box, it will be based on our company's decode rule.



Example:

If the card is Wiegand 36-bit format, please select 36Bit (Turns into blue background) and click "enable" then click "Set". Try to swipe a card and retrieve card number. If the card number can't be retrieved back, it means the card is not W36-bit format. If so, please check different bit options to test and know what Wiegand format it is.



If the retrieved card number is not as expected, please contact our sales and provide the card for our engineer check to provide the further assistance.

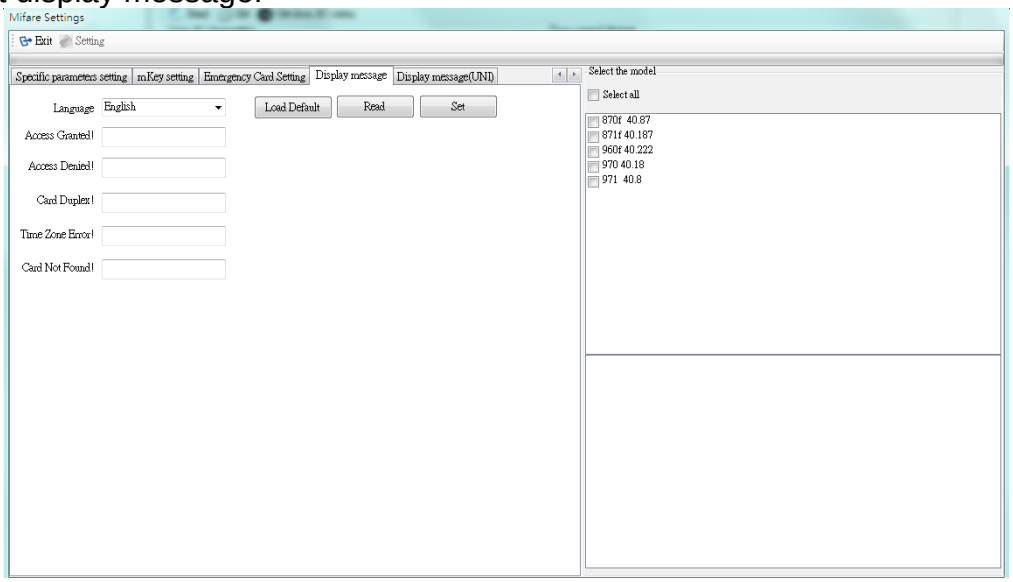
5-7-7 Display Message

Display message can be modified.

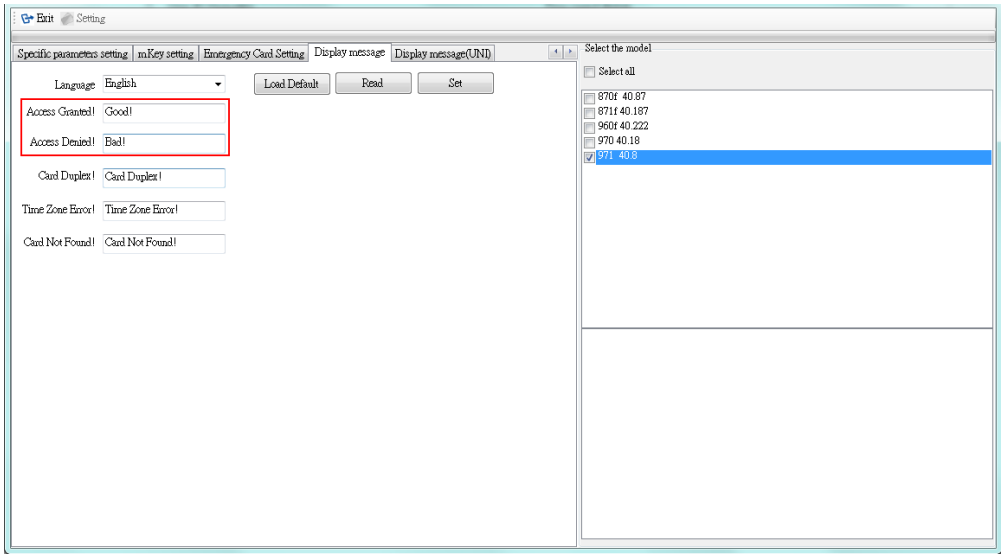
Support device model: RAC-960 Series/RAC-960 Fingerprint Series/RAC-970 Series/RAC-970 Fingerprint Series/RAC-971 Series /RAC-971 Fingerprint Series /HTA-860 Series /HTA-860 Fingerprint Series/HTA-870 Series /HTA-870 Fingerprint Series/HTA-871 Series/HTA-871 Fingerprint Series

Operation Steps:

1. Tick the checkbox of device model, select the Language, and click “Read”. Read the current display message.



2. Modify the content, click “Set”, and download the changed display message to the device.



3. If you want to restore the default values, click “Load Default” to restore the original factory settings.

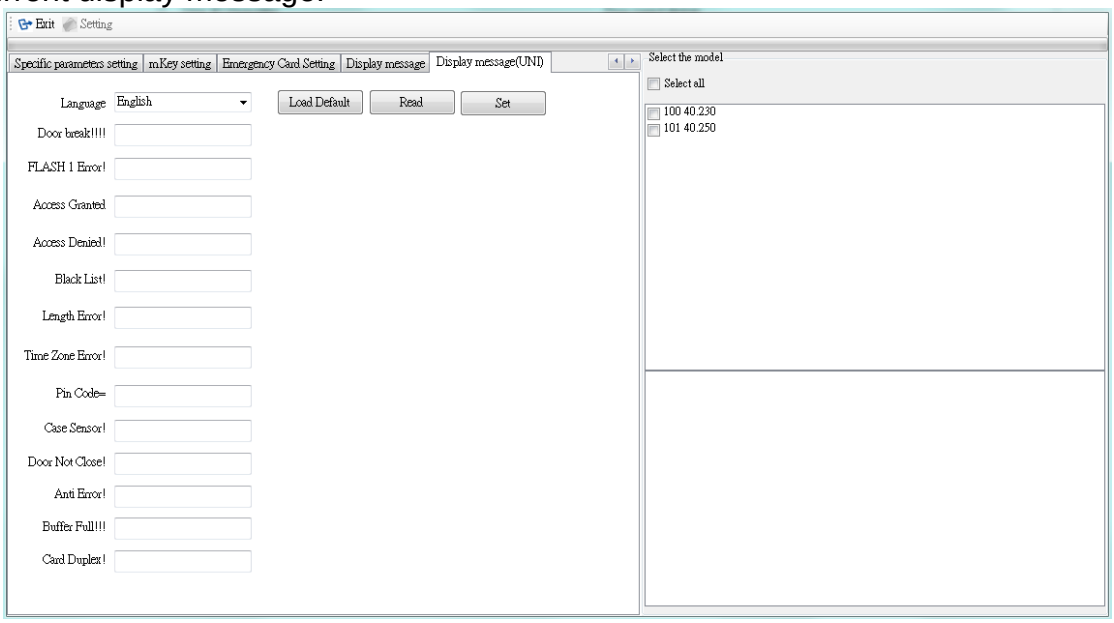
5-7-8 Display Message (UNI)

Display message can be modified.

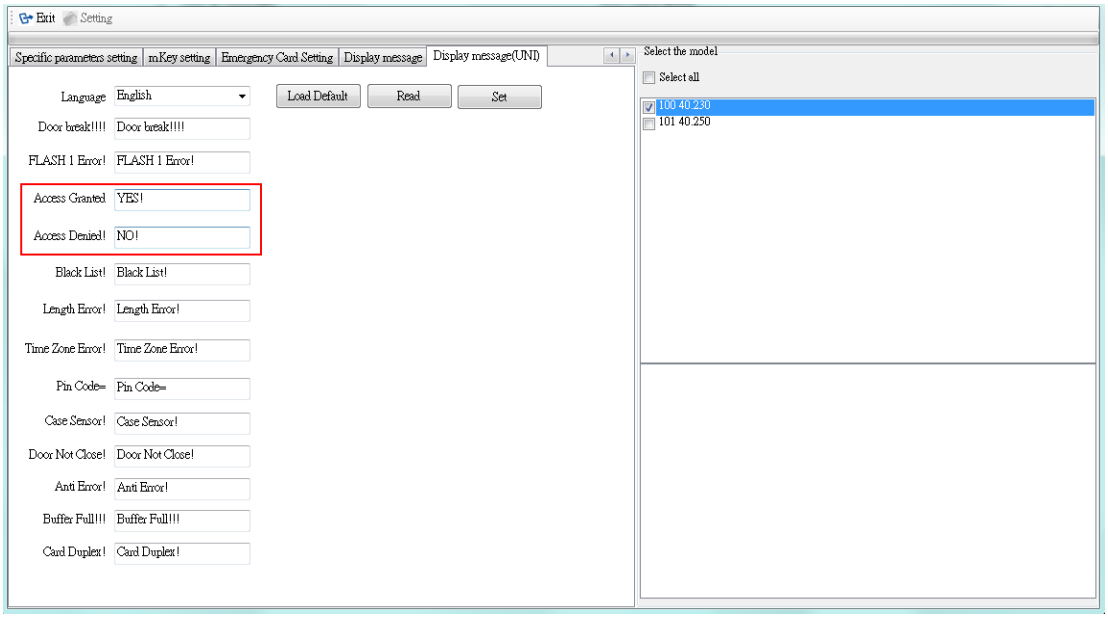
Support device model: HAC-100/101.

Operation Steps:

1. Tick the checkbox of device model, select the Language, and click “Read”. Read the current display message.



2. Modify the content, click “Set”, and download the changed display message to the device.



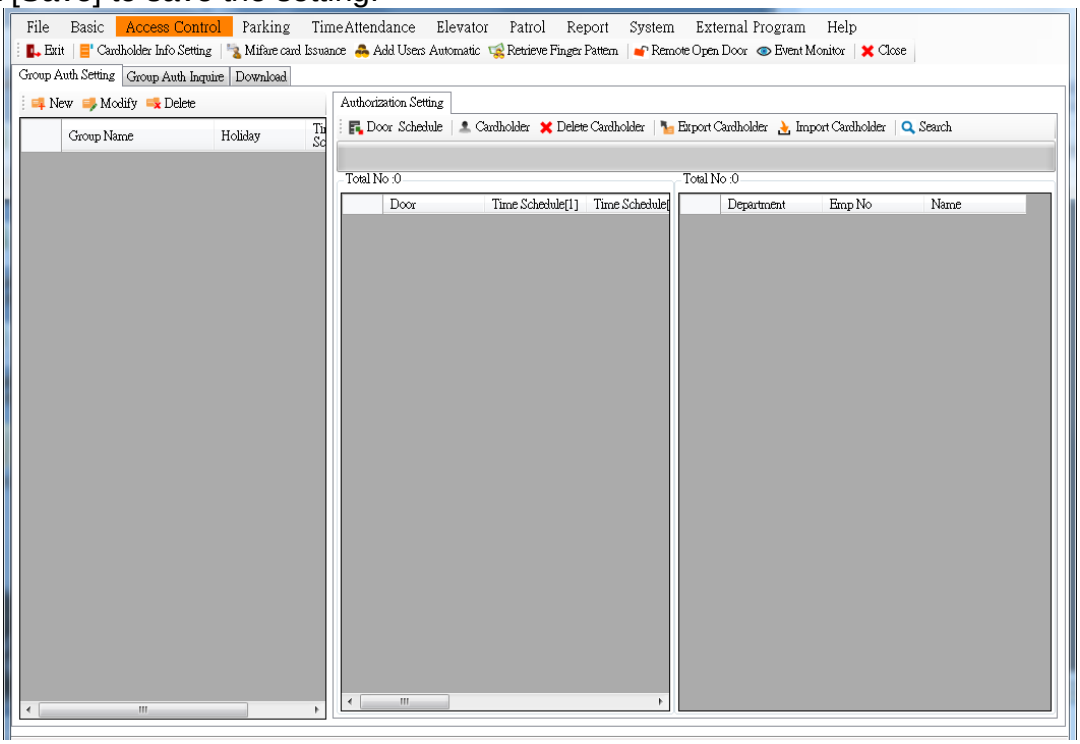
3. If you want to restore the default values, click “Load Default” to restore the original factory settings.

5-8 Authorization Setting (HAMS-20)

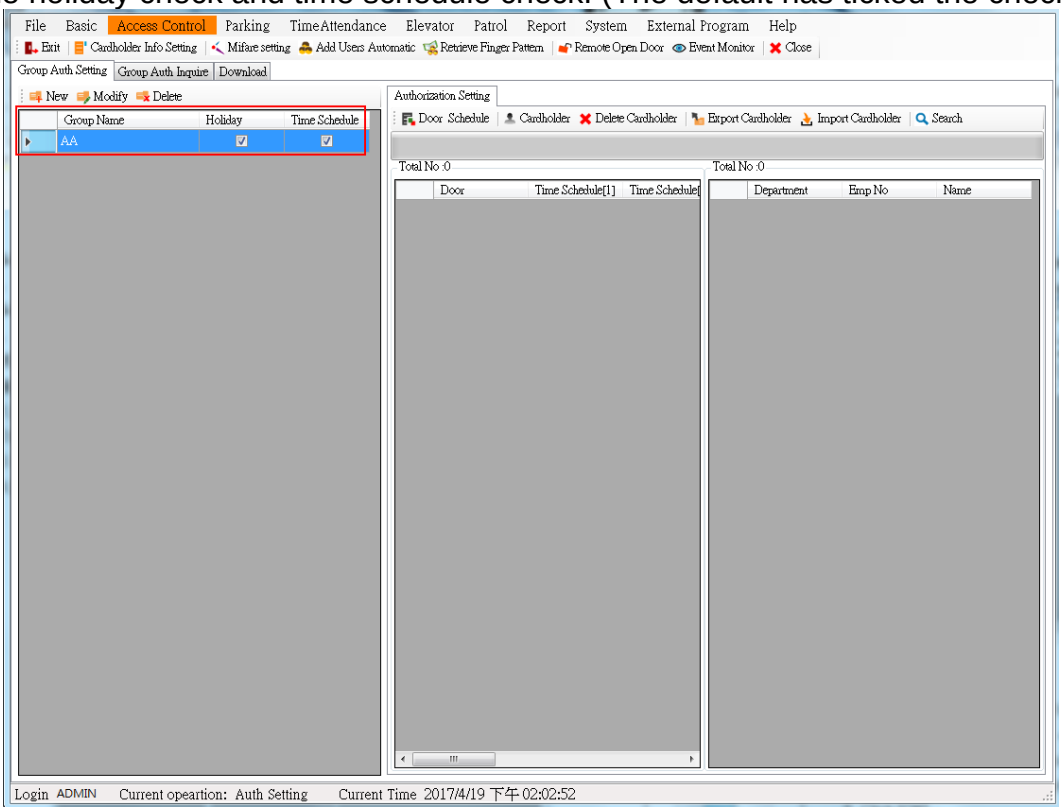
5-8-1 Group Authorization Setting

Operation Steps:

1. Click [New].
2. Input group name.
3. Click [Save] to save the setting.



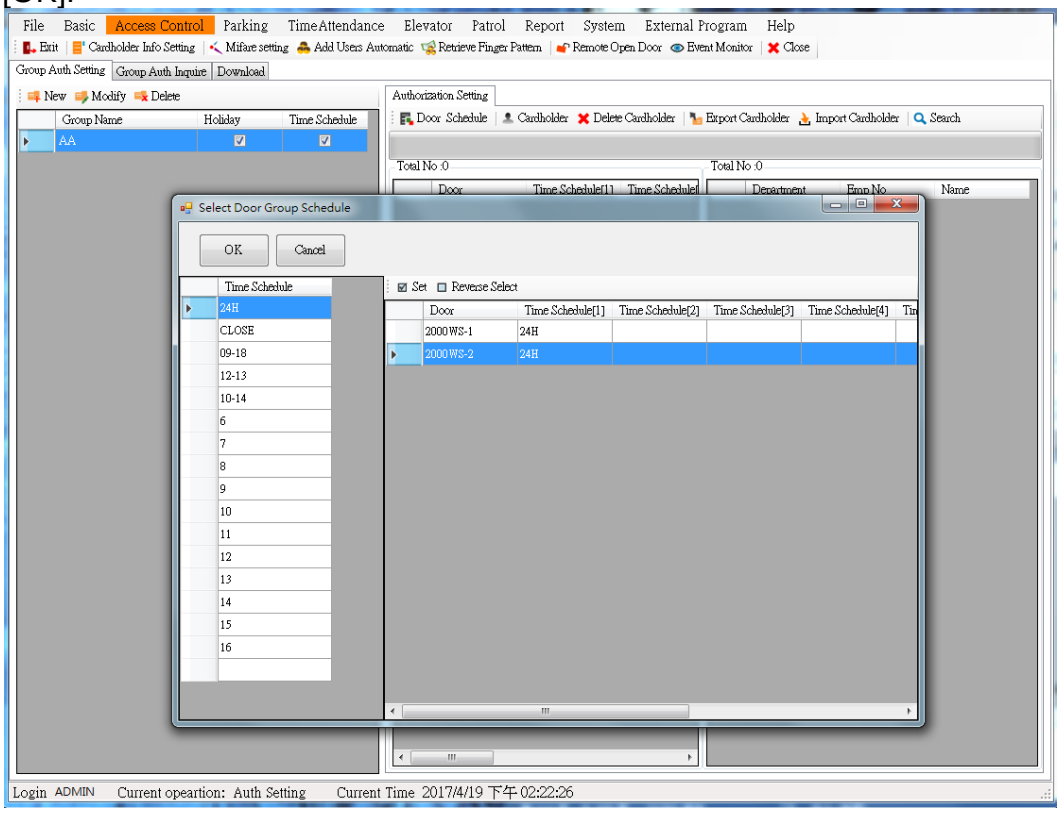
Enable holiday check and time schedule check. (The default has ticked the checkbox)



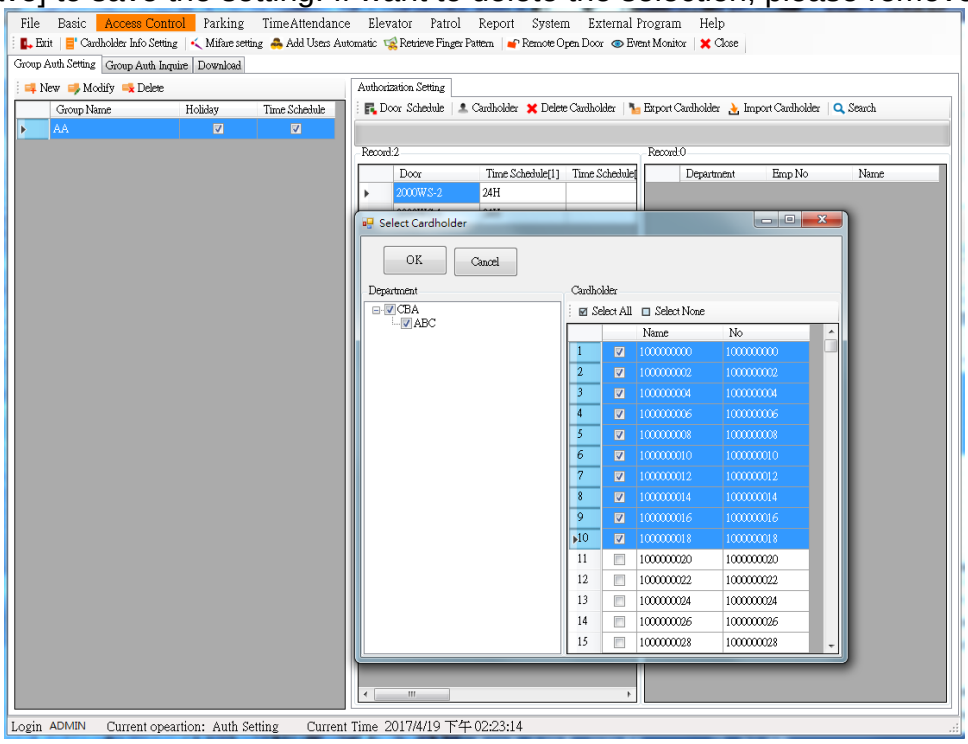
4. Go to [Door Schedule].Select a Time schedule from left side first. Then select the doors which you want to authorize.

   Hint: Speedy Selection: Press CTRL key and select doors by mouse or press SHIFT key and select doors successively by mouse.

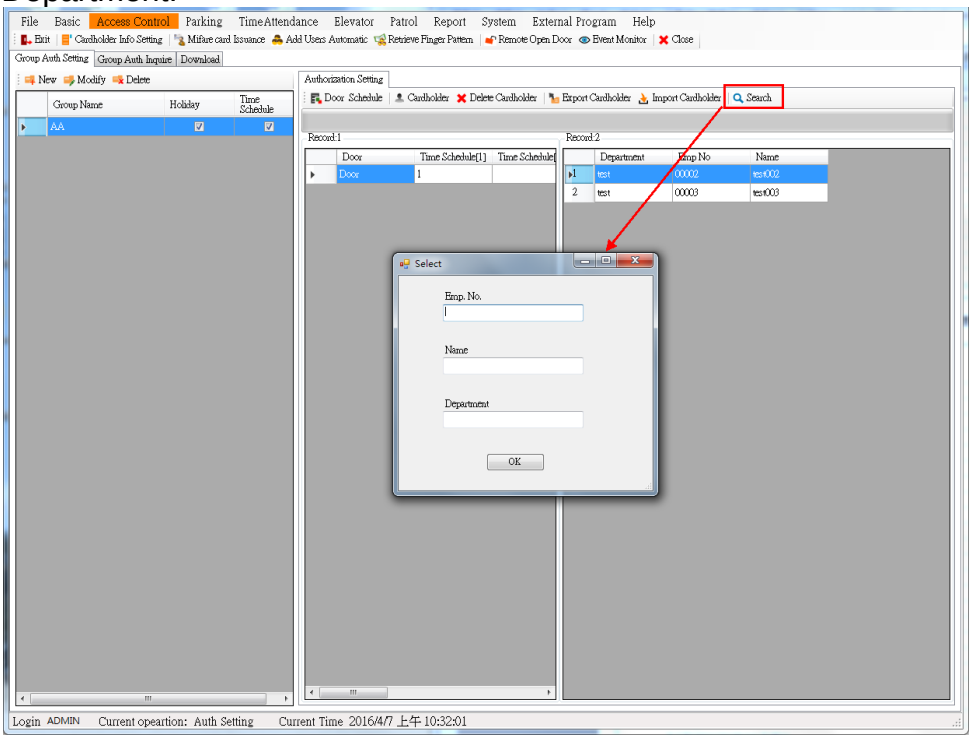
5. Click [OK].



6. Go to [Cardholder]. Tick the department then you will read cardholder list which belong the department. And then you can start to tick the cardholders.
7. Click [Save] to save the setting. If want to delete the selection, please remove the tick.



8. Able to use "Search" function according to the types of search criteria, like Emp. No, Name or Department.



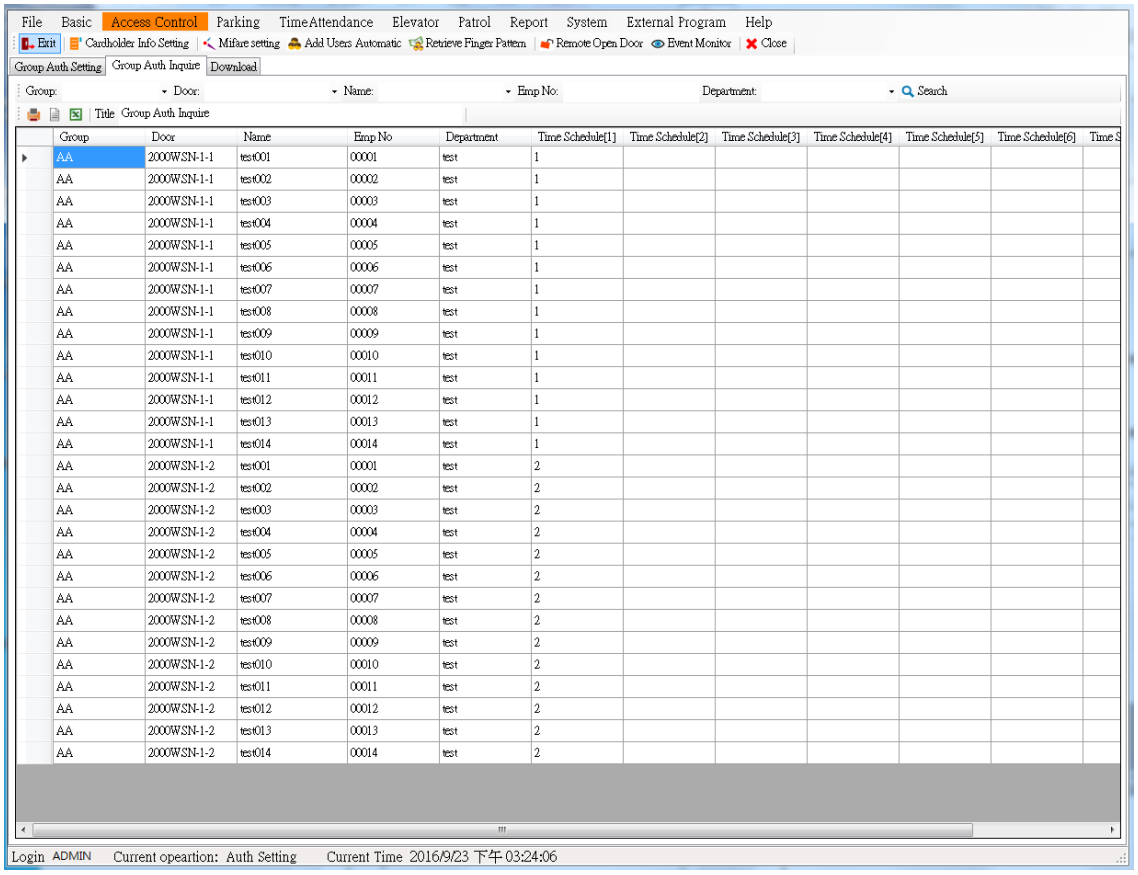
After setting completed, system also allows users to click [Export Cardholder] to produce a txt file base on the setting. The file only includes cardholder name and authority by department. This file may import to system and use for other group authorization.

5-8-2 Group Authorization Inquire

Report provides print function and can be converted to TXT or XLS format for other application.

Operation Steps：

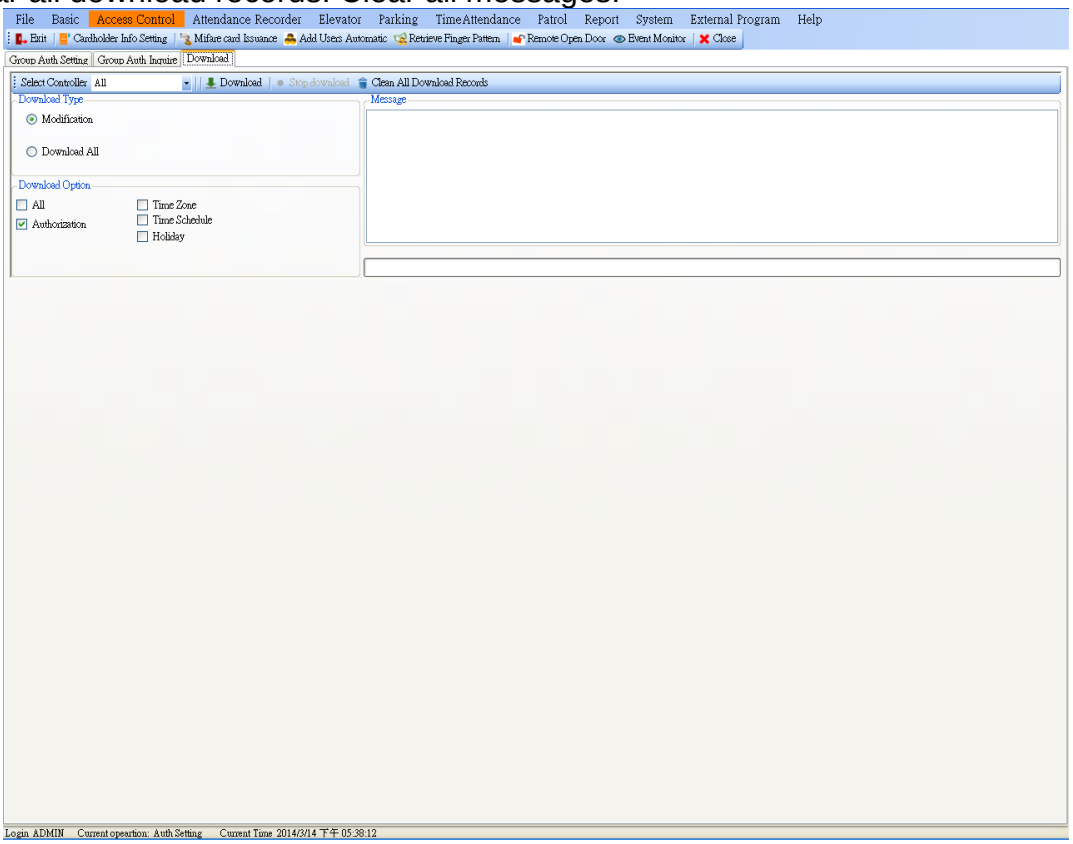
1. Check dynamic drop-down menu, you will read group, door, time schedule and name.
2. Click 「Search」.



5-8-3 Download

Operation Steps：

1. Select Controller: Select “All” or select single controller to downloading.
2. Download Type:
   - Download All: Download all users’ information and authorizations.
   - Modification: Download modified users’ information and authorizations.
3. Download Option: User can select download all options or select some settings to download,
4. Click「Download」to start the download.
5. Clear all download records: Clear all messages.

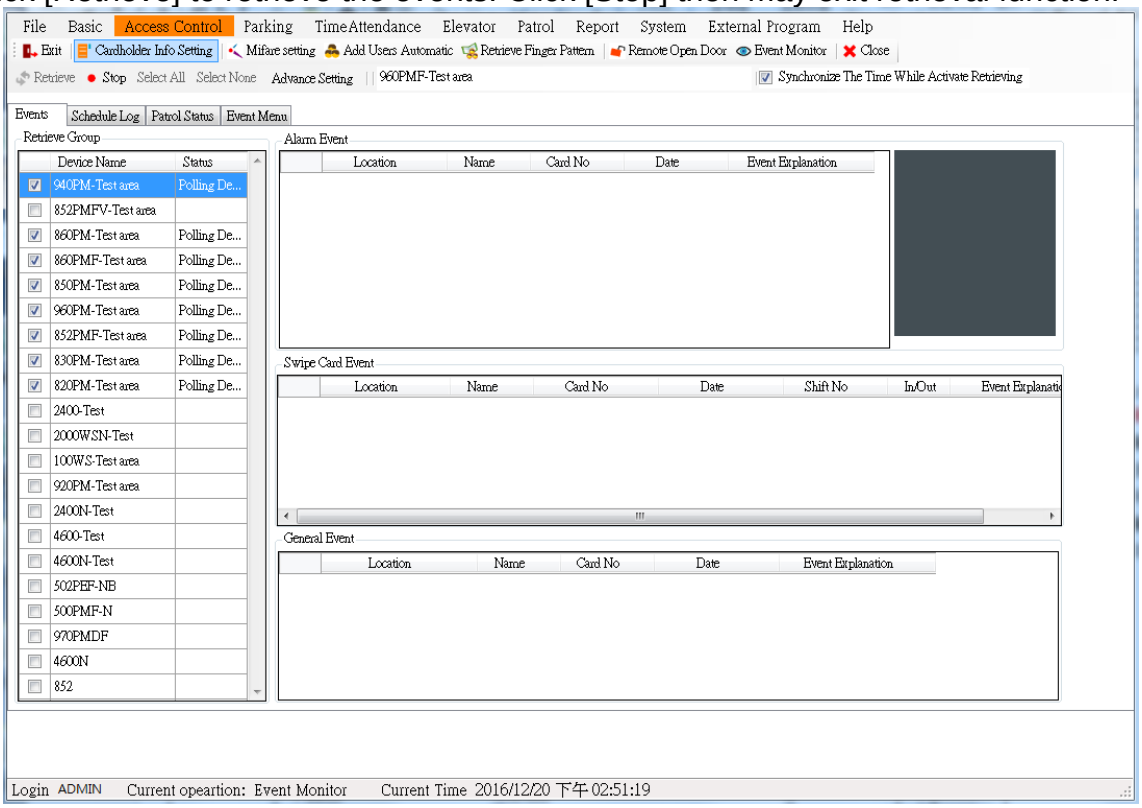


5-9 Access Control Event monitor

It is mainly to monitor swipe card events or device actions in real time

Operation Steps:

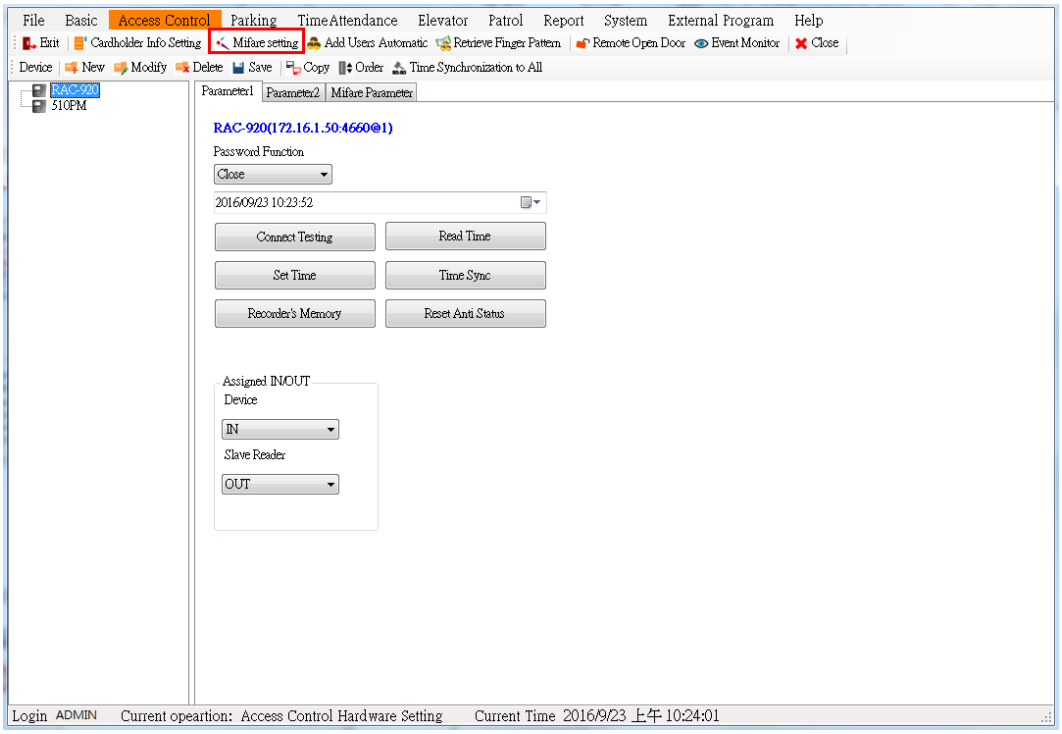
1. Tick devices which you want to retrieve events. You may click [Select All] or [Select None] or [Restore] for quickly selection. (System will memorize preceding setting, when click [Restore], system will return to previous selection.)
2. Click [Retrieve] to retrieve the events. Click [Stop] then may exit retrieval function.

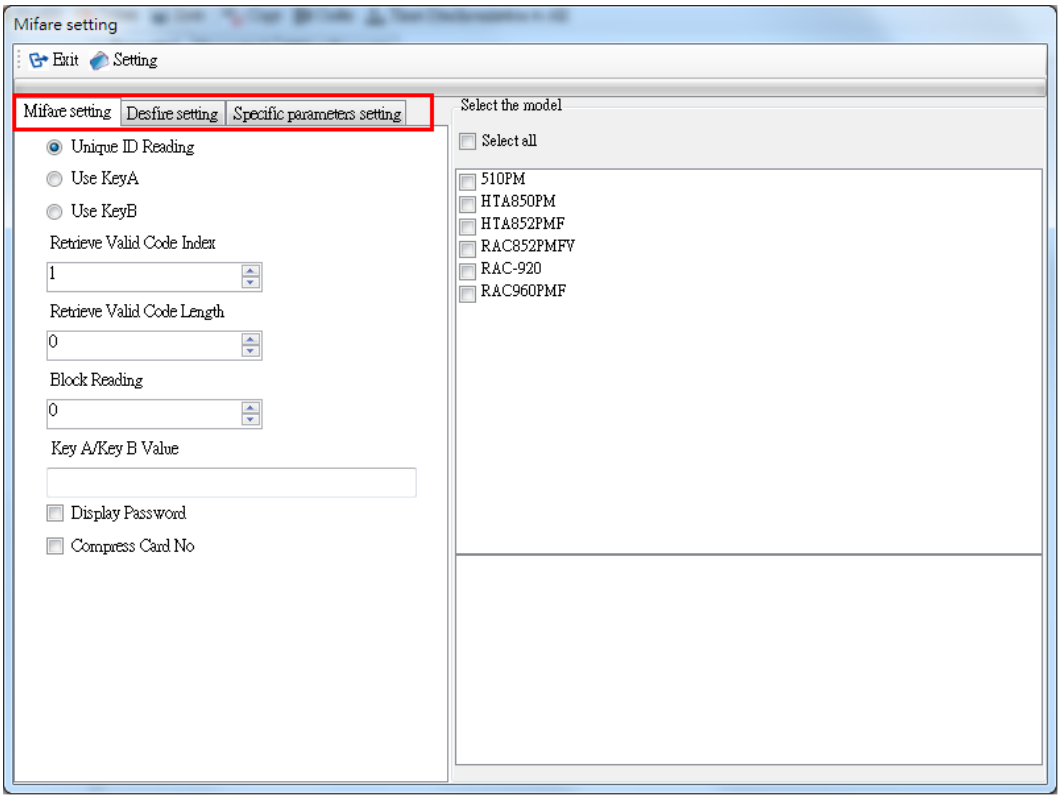


- Synchronize The Time While Activate Retrieving: Do the time synchronization one time while it start retrieving, but not do it anymore after that (the default has ticked the checkbox. This function are just for those devices which are selected on the "Time Sync" function to go for a time calibration.)
- Events: Display current retrieval.
- Schedule Log: Allow the users view schedule execute status. This function works with “Chapter 11-2 Schedule Setup”.
- Advance Setting: Clean all events from screen.
- Patrol Status: Display patrol status.
- Event Menu: Operator may select what events would like to retrieval. Default is select all.

5-10 Mifare Setting

1. Mifare setting is to support Mifare models
2. Desfire setting is to support Desfire models



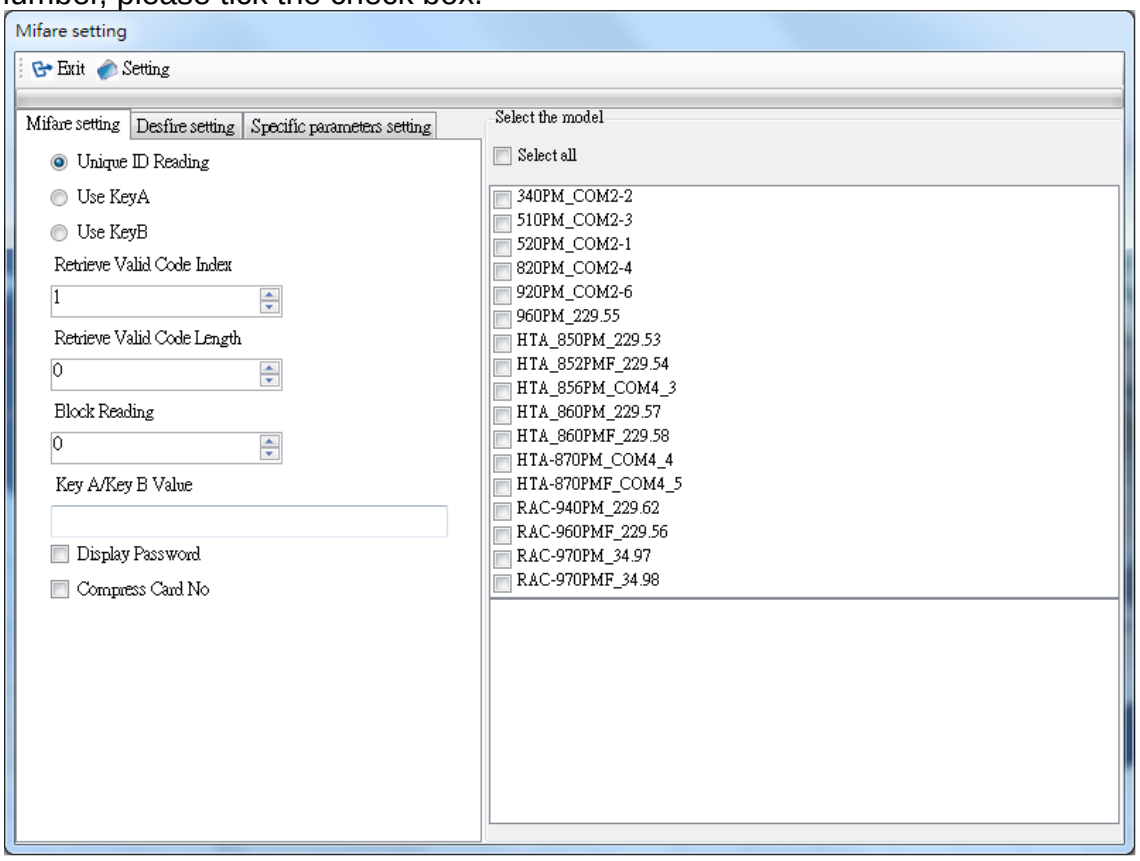


5-10-1 Mifare Setting

1. Allow the user to set the reading unique ID or block of Mifare cards.
2. This page only for Mifare models.

Operation Steps：

- Unique ID Reading：Allow user read serial number only. When select this parameter, please ignore follow parameters setting.
- Use Key A：Login by Key A value.
- Use Key B：Login by Key B value.
- Retrieve valid code index：The index digit of retrieve valid card number.
- Retrieve valid code length: how many digits you want to retrieve of valid card number. This parameter works hand in hand with “Retrieve valid code index”.
- Block Reading： Assigned read allotted block.
- Key A/Key B Value：The value of allotted block
- Display Password： When tick the box, Key A/Key B ‘s password will display on plain code.
- Compress Card No: Default is uncompressing card number. If need compress card number, please tick the check box.

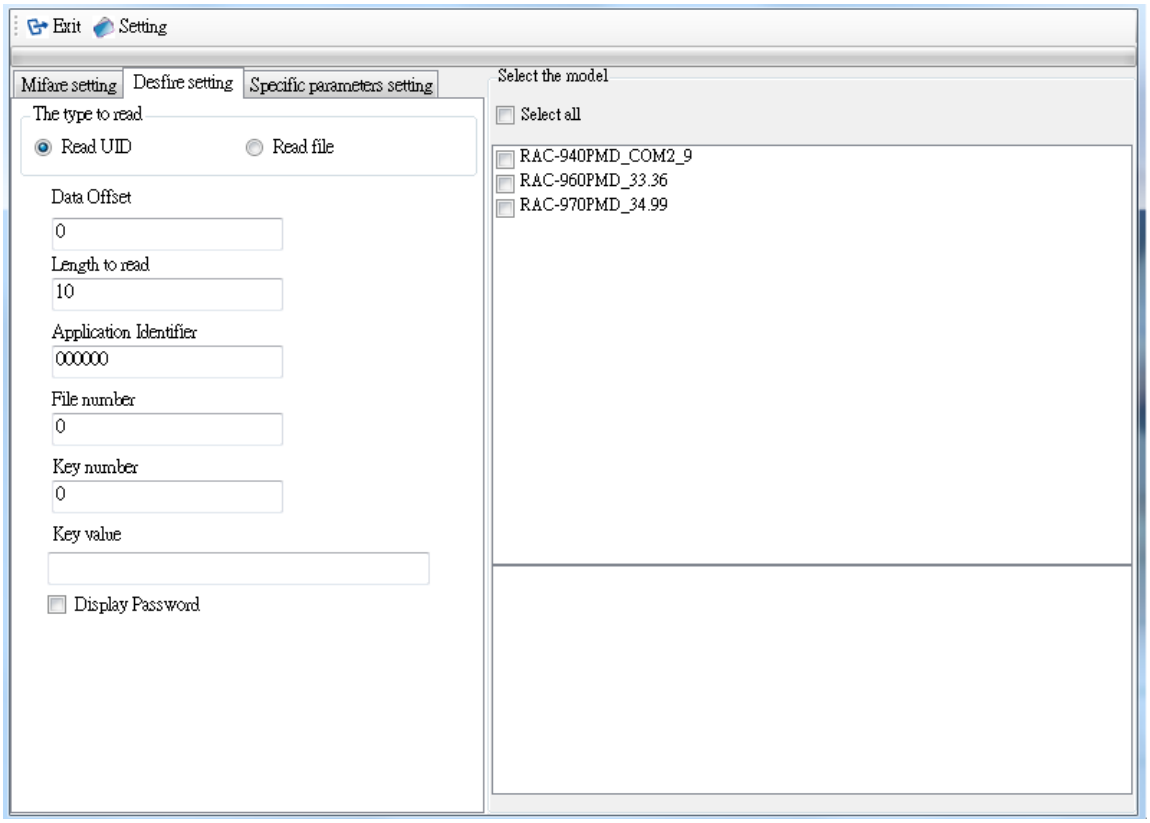


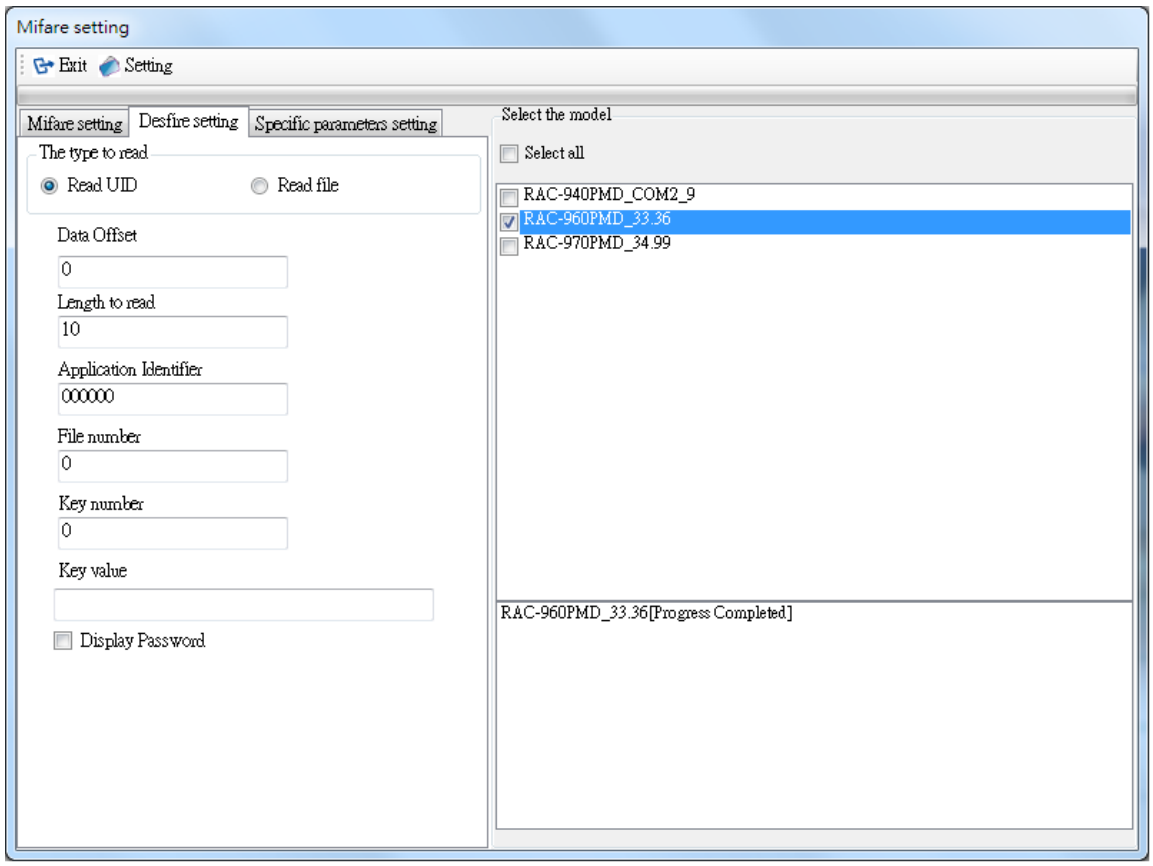
5-10-2 Desfire Setting

Specify a device to read UID (Serial number) or to read file for Desfire models

Operation Steps:

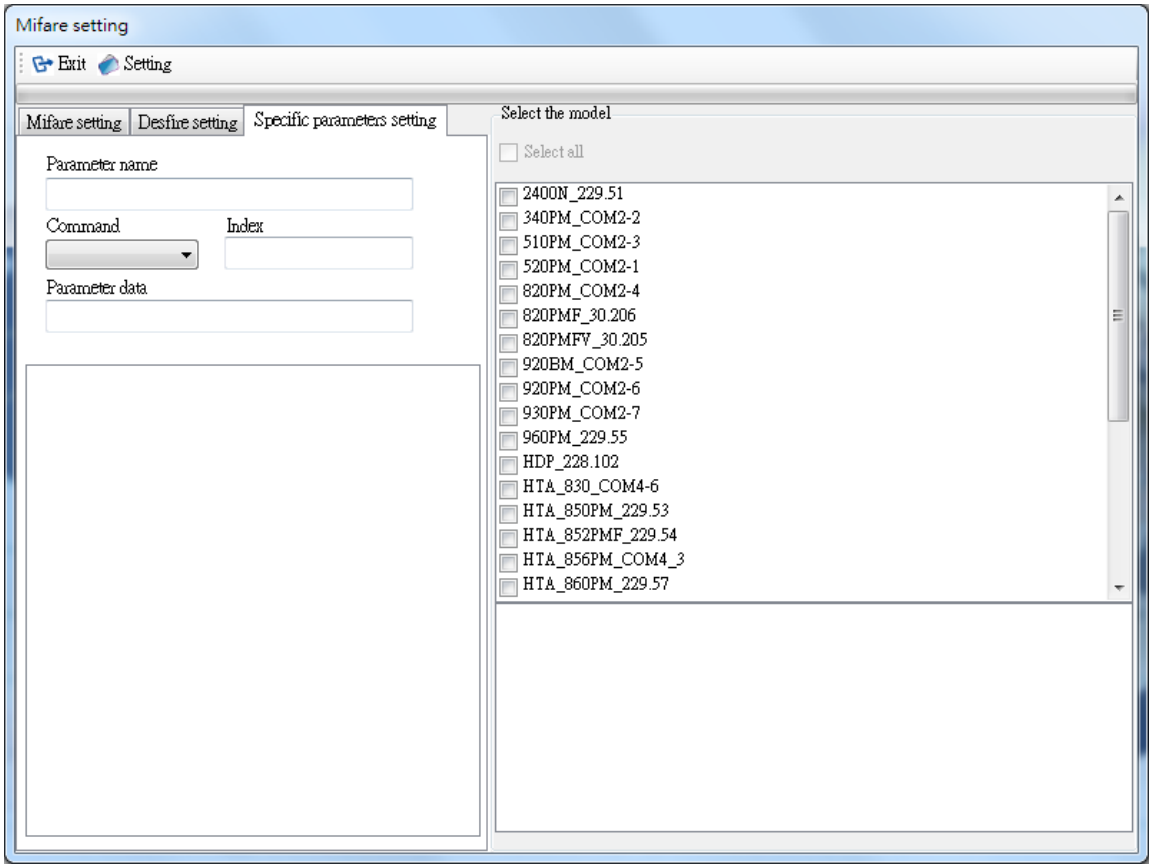
1. Data Offset：Set offset value from the beginning of the data.
2. Length to read：The length (number of digits) to retrieve ; It needs to work with Start Digit.
3. All the values in these fields (Application Identifier, File number、Key number、Key value) need to be as the same as the settings while doing card issuance.
4. Display Password：Show a password in an input box when the checkbox is checked here.

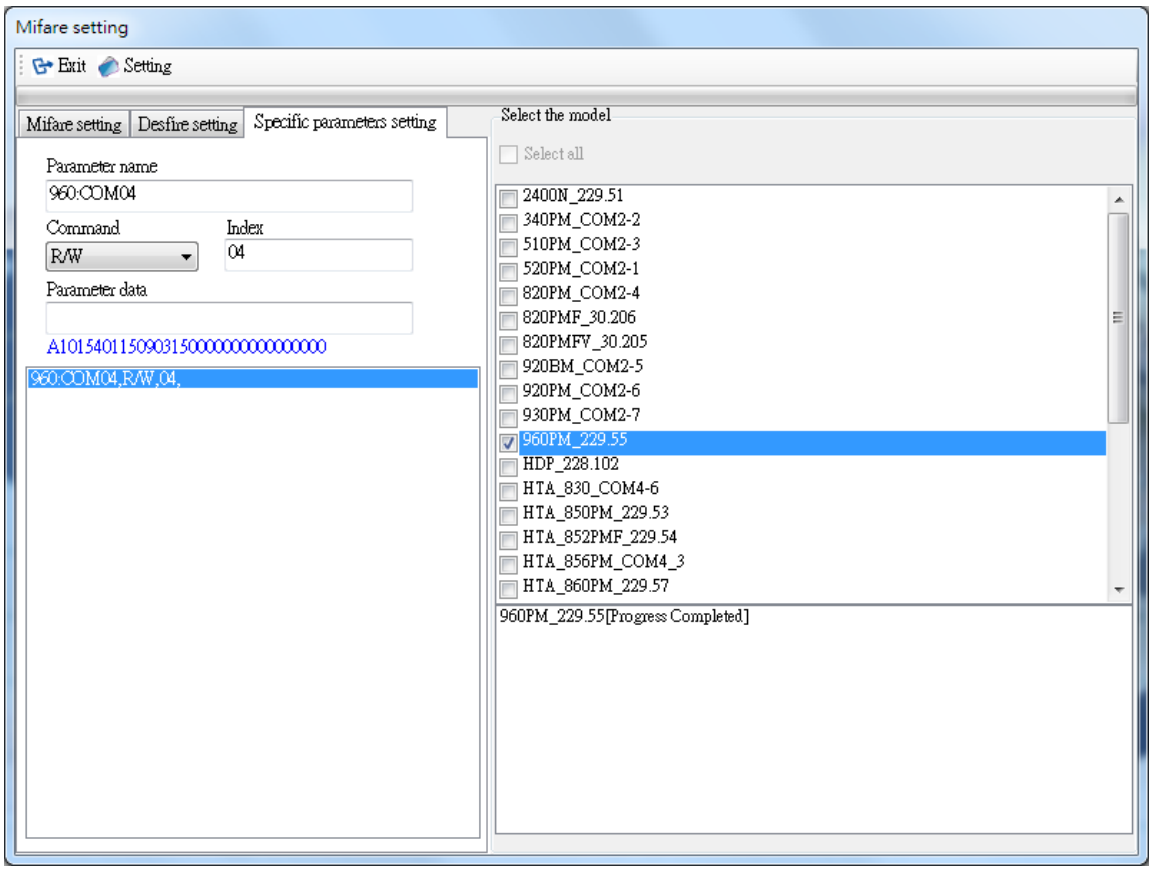



Mifare setting
Exit
Setting
Mifare setting
Desfire setting
Specific parameters setting
The type to read
Read UID
Read file
Data Offset
0
Length to read
10
Application Identifier
000000
File number
0
Key number
0
Key value
Display Password
Select the model
Select all
RAC-940PMD_COM2_9
RAC-960PMD_33.36
RAC-970PMD_34.99
RAC-960PMD_33.36[Progress Completed]

5-10-3 Specific parameters setting

1. Parameter name：Define the parameter name.
2. Command：With "Read", "Write" and "R/W" for choice.
3. Index：Enter Command Code.
4. Parameter data.



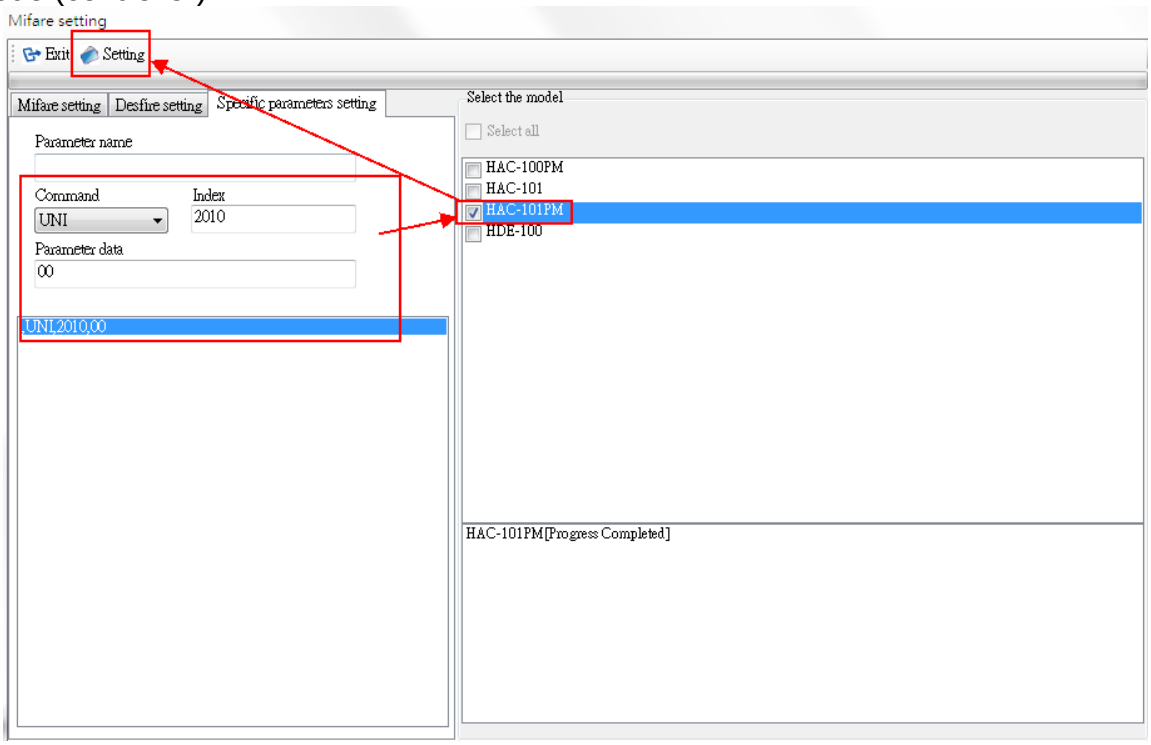

Mifare setting
Exit
Setting
Mifare setting
Desfire setting
Specific parameters setting
Parameter name
960:COM04
Command
R/W
Index
04
Parameter data
A10154011509031500000000000000000
960:COM04,R/W,04,
Select the model
Select all
2400N_229.51
340PM_COM2-2
510PM_COM2-3
520PM_COM2-1
820PM_COM2-4
820PMF_30.206
820PMFV_30.205
920BM_COM2-5
920PM_COM2-6
930PM_COM2-7
960PM_229.55
HDP_228.102
HTA_830_COM4-6
HTA_850PM_229.53
HTA_852PMF_229.54
HTA_856PM_COM4_3
HTA_860PM_229.57
960PM_229.55[Progress Completed]

5-10-4 Special Parameter Settings (HAC-101)-Elevator mode change to access control mode

To change the elevator mode of HAC-101 to be an access control mode:
Operating Steps：

1. Parameter Name：Self-definable
2. Commands：Please Select UNI
3. Index：Enter 2010。
4. Parameter Data：00: Access Mode、01: Elevator Mode

e.g.：Enter 00 to the field of parameter data to turn HAC-101PM to be an access control mode (controller)

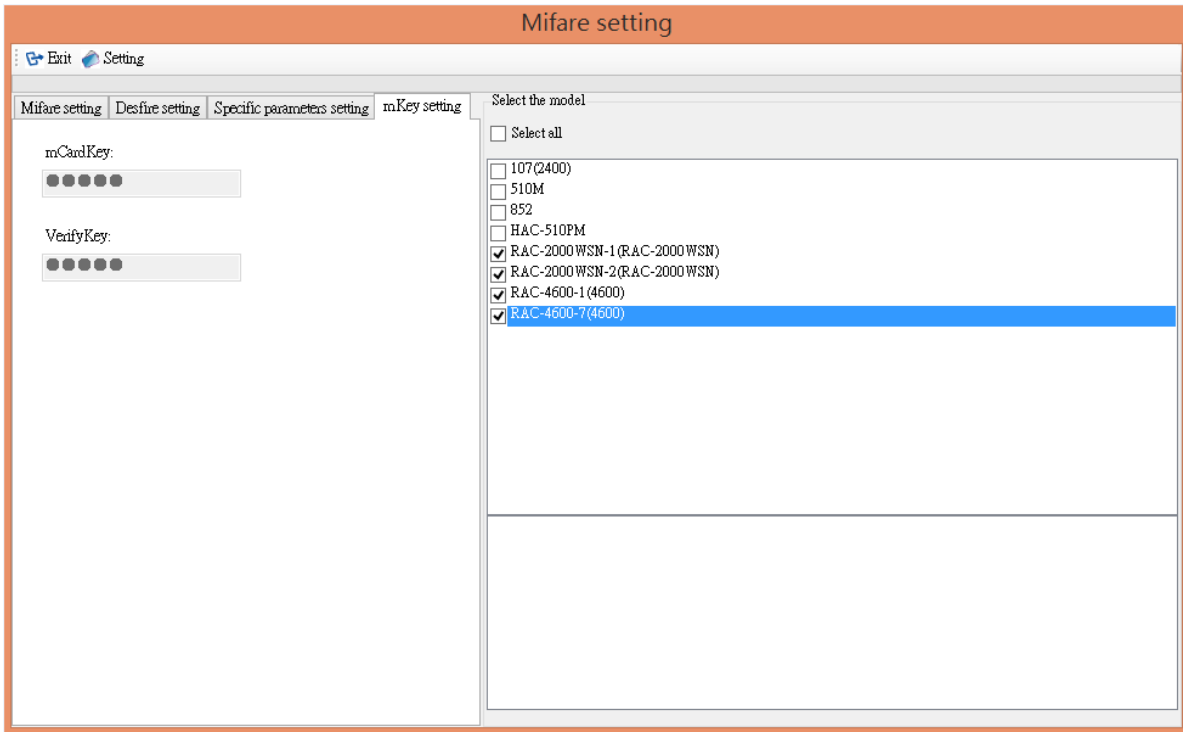


5-10-5 mKey Settings

Support model: RAC-2000WS/RAC-2000WSN、RAC-4600/RAC-4600N、RAC-960PE/RAC-960PM、RAC-960PEF/RAC-960PMF、RAC-970PE/RAC-970PM、RAC-970PEF/RAC-970PMF、RAC-971PE/RAC-971PM、RAC-971QE/RAC-971QM、RAC-971PEF/RAC-971PMF、HTA-860PE/HTA-860PM、HTA-860PEF/HTA-860PMF、HTA-870PE/HTA-870PM、HTA-870PEF/HTA-870PMF、HTA-871PE/HTA-871PM、HTA-871PEF/HTA-871PMF、NCU、GCU、RAC-2400/RAC-2400N、HDE-120、HDP-100

Download the key from the device host device and upload to QR code or BLE reader.
Note: If you do not upload the key to the card reader, you cannot open the door with your phone.

Operation steps:
1. Select the device model.
2. Click Settings to upload the key to the reader.

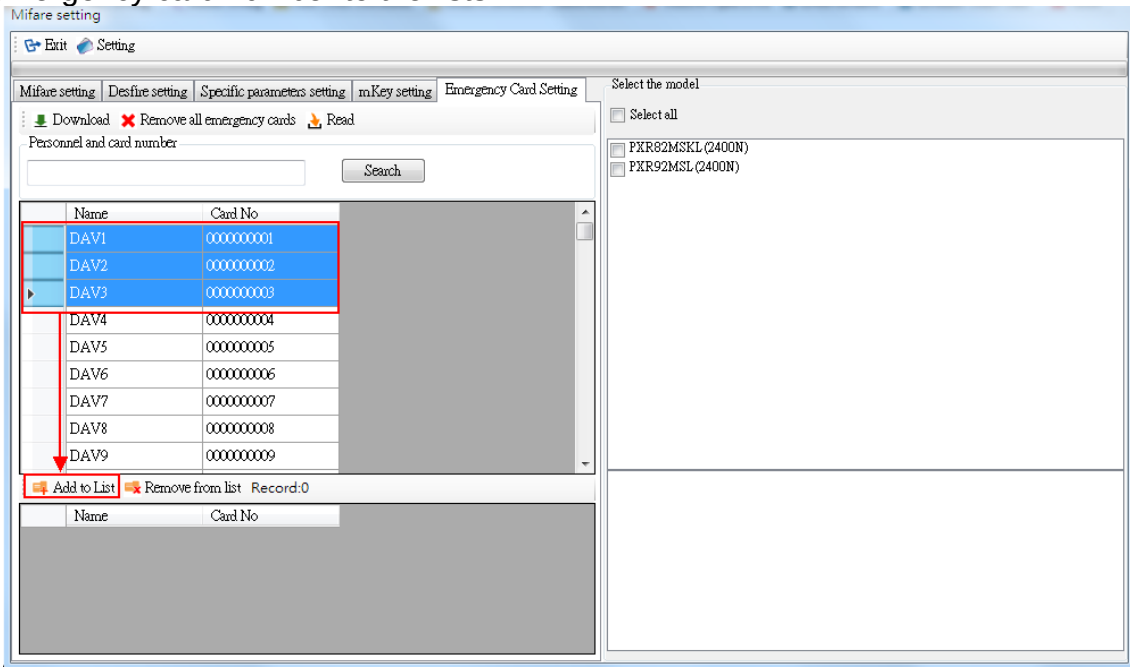


5-10-6 Emergency Card Setting (Only use for downstream L type reader)

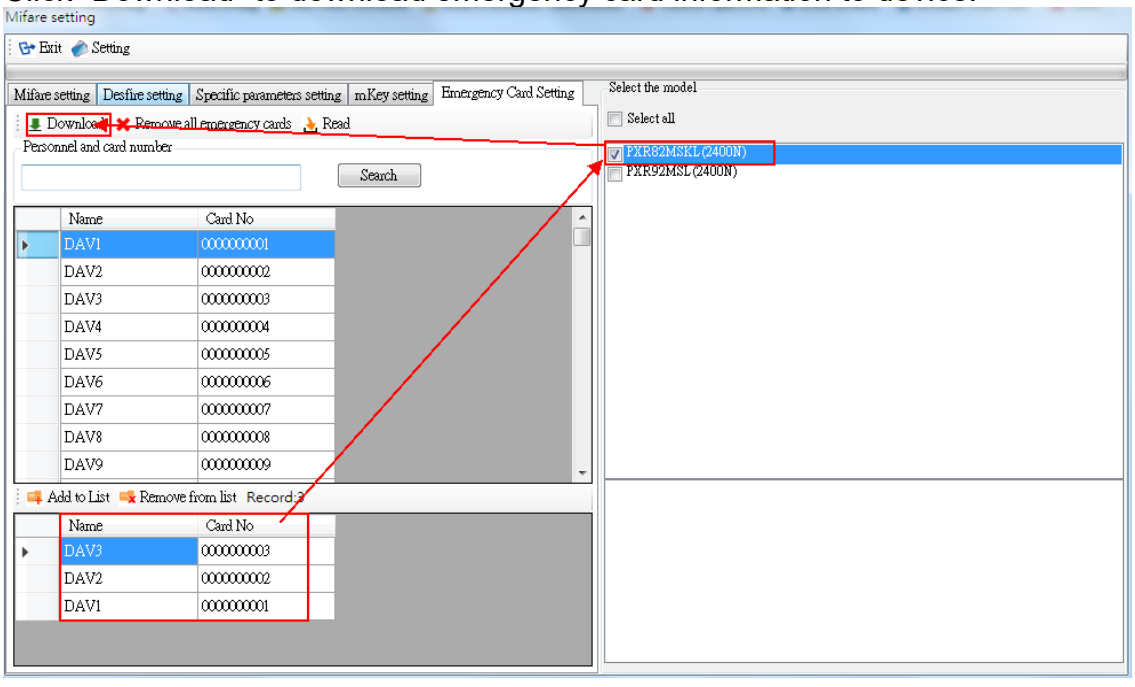
Able to set 32 emergency cards for L type reader.

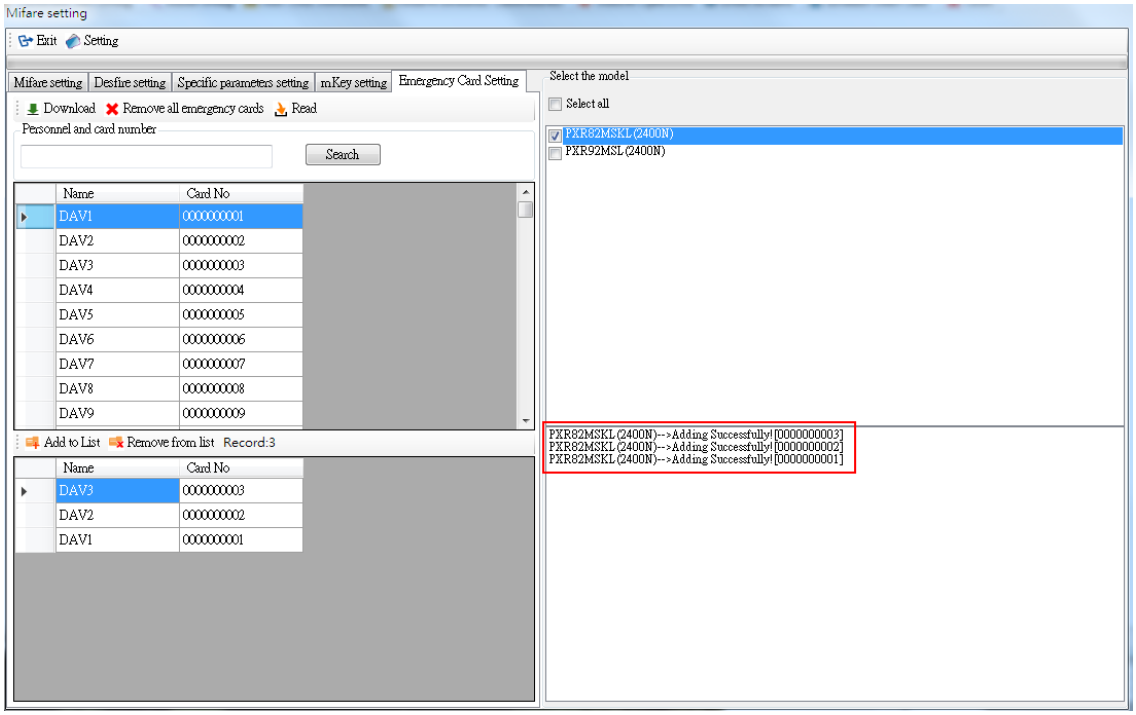
Operation Steps:

1. The screen displays all personnel information, and you can query personnel information by name or card number.
2. Please select personnel name/card number and then click “Add to List” to add the emergency card number to the lists.

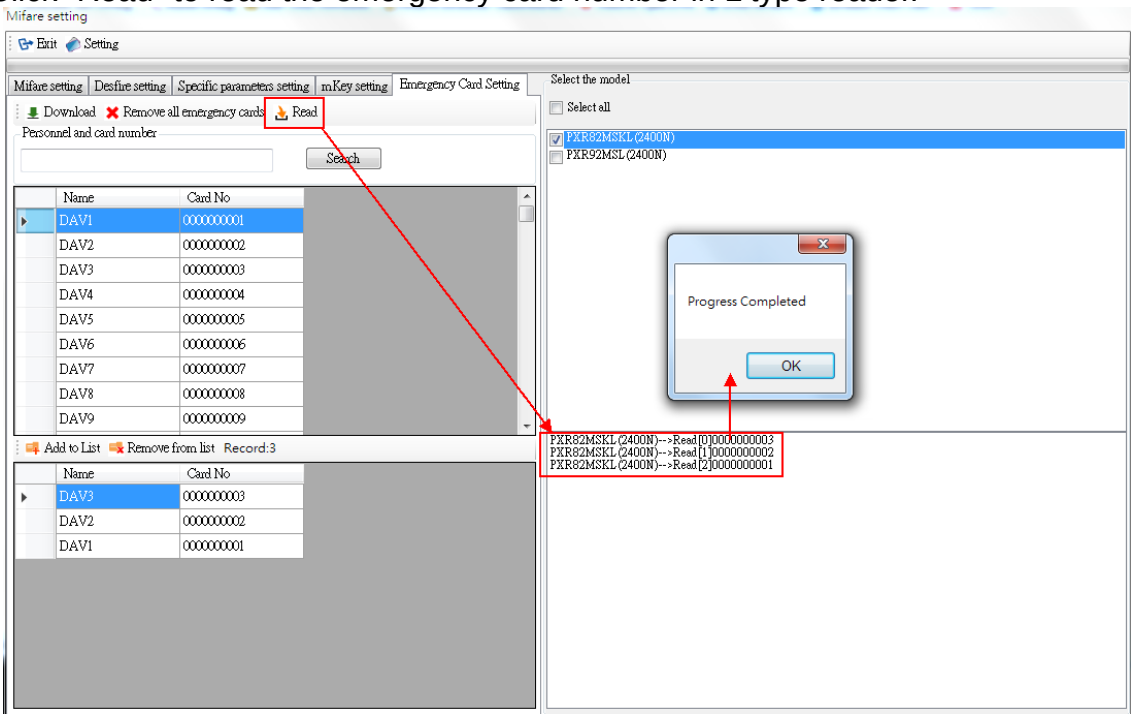


3. Select device model.
4. Click “Download” to download emergency card information to device.

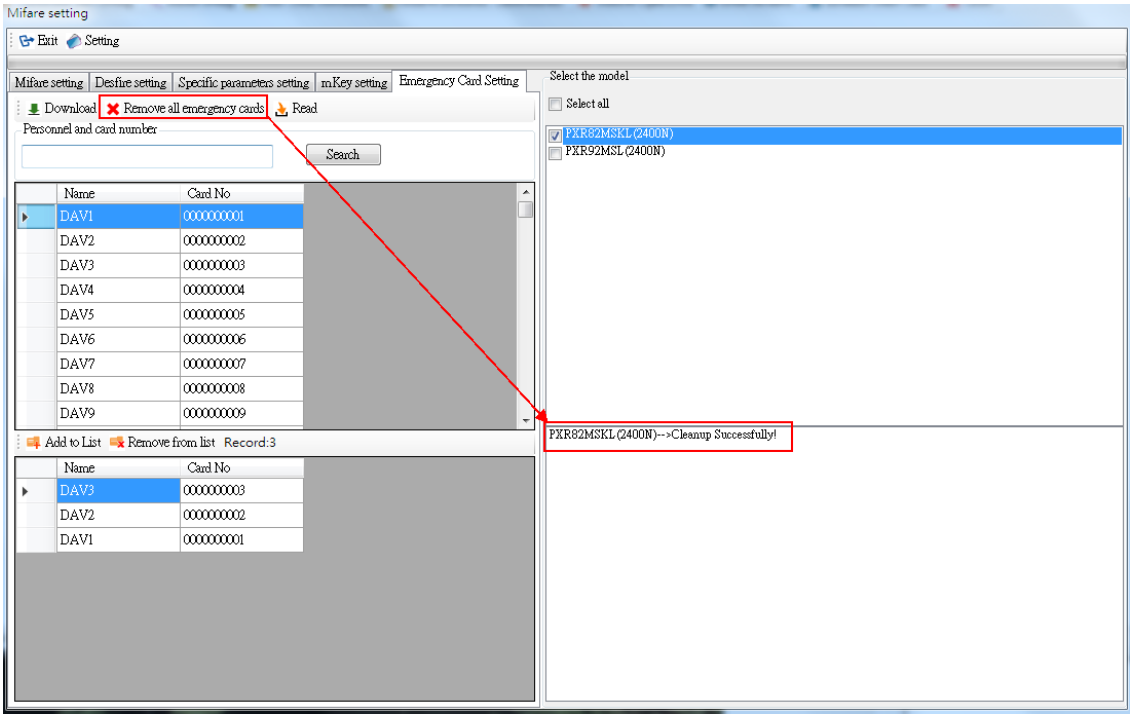




5. Click “Read” to read the emergency card number in L type reader.



6. Click “Remove all emergency cards”, system will delete all emergency cards in the device.

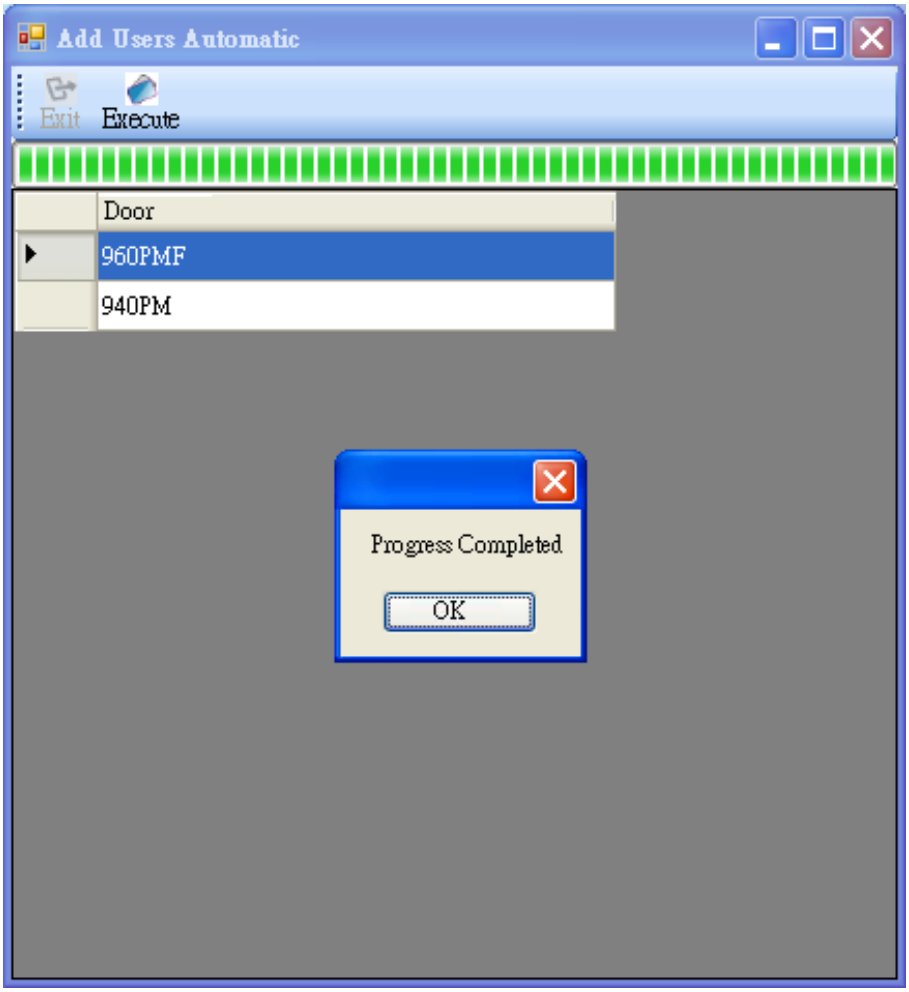

Mifare setting
Exit
Setting
Mifare setting
Desfire setting
Specific parameters setting
mKey setting
Emergency Card Setting
Download
Remove all emergency cards
Read
Personnel and card number
Search
Name
Card No
DAV1 0000000001
DAV2 0000000002
DAV3 0000000003
DAV4 0000000004
DAV5 0000000005
DAV6 0000000006
DAV7 0000000007
DAV8 0000000008
DAV9 0000000009
Add to List
Remove from list
Record:3
DAV3 0000000003
DAV2 0000000002
DAV1 0000000001
Select the model
Select all
PXR82MSKL(2400N)
PXR92MSL(2400N)
PXR82MSKL(2400N)-->Cleanup Successfully!

5-11 Add Users Automatic

Operator may retrieve card number from the device and add card number into cardholder information automatically.

Operation Steps:

1. Select Device. (Only RAC-940,RAC-960 and RAC-970 series)
2. Click [Execute] to retrieve valid card information. System will create new users' name and employee number as card number in the cardholder information workspace automatically.



5-12 Retrieve Finger Pattern

Retrieve biometric characteristics from biometric characteristics machine. (This function is only for biometric characteristics machine)

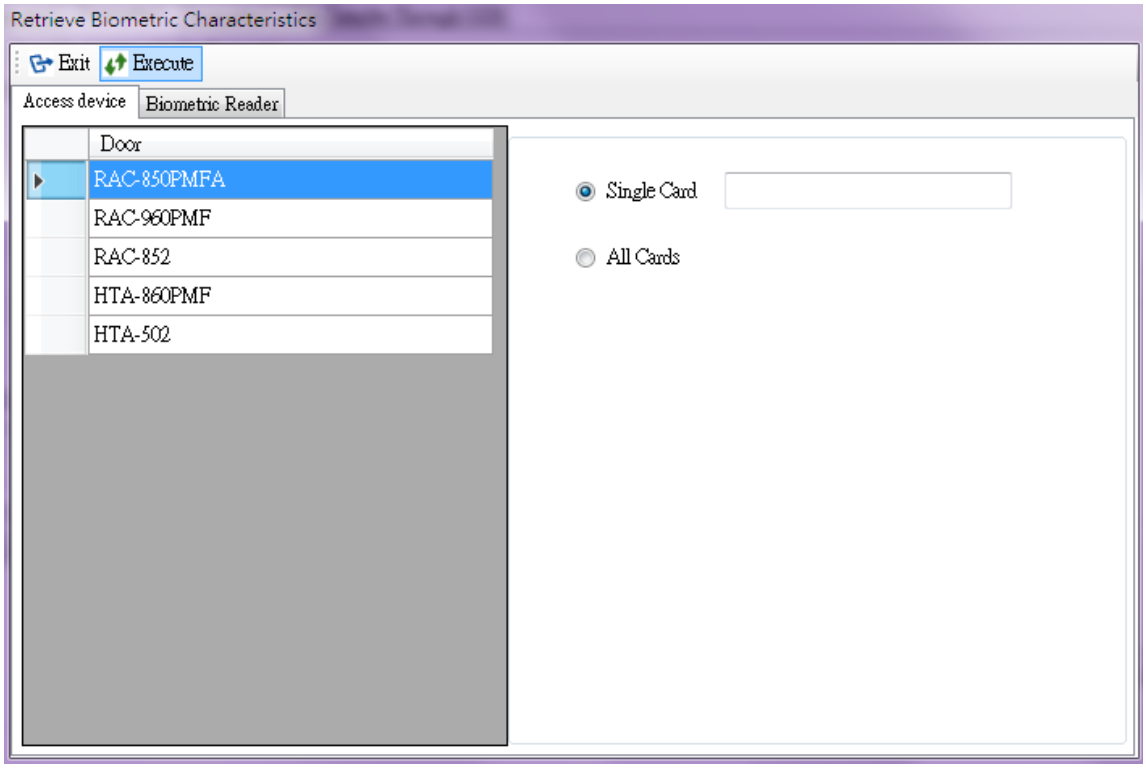
【Access device】

Operation Steps:

1. Select Device
2. Select Single Card or All Cards.

   Single Card：Please input card number which you want to retrieved and then click [Execute]

   All Cards：It is highly recommend selecting all cards at first time. After that, operator can retrieve biometric characteristics singly to avoid long time retrieval. (System will take 4~5 minutes for 200 biometric characteristics).



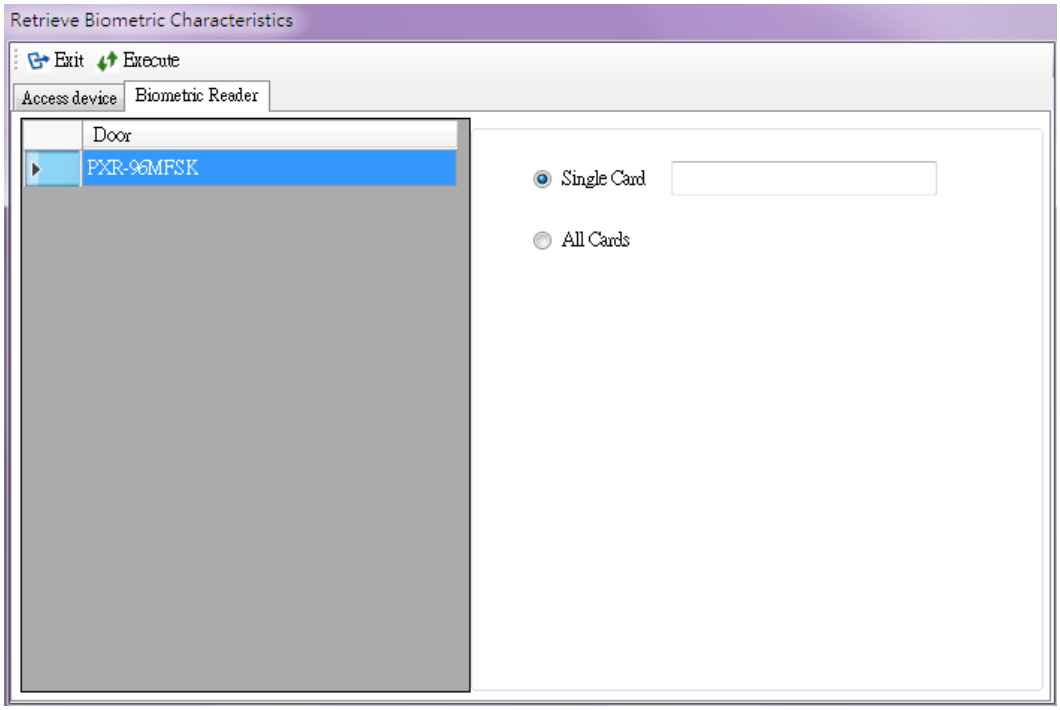
【Biometric Reader】(Only for PXR-96 finger reader series)

Operation Steps:

1. Select Device
2. Select Single Card or All Cards.

   Single Card：Please input card number which you want to retrieved and then click [Execute]

   All Cards：It is highly recommend selecting all cards at first time. After that, operator can retrieve biometric characteristics singly to avoid long time retrieval. (System will take 4~5 minutes for 200 biometric characteristics).

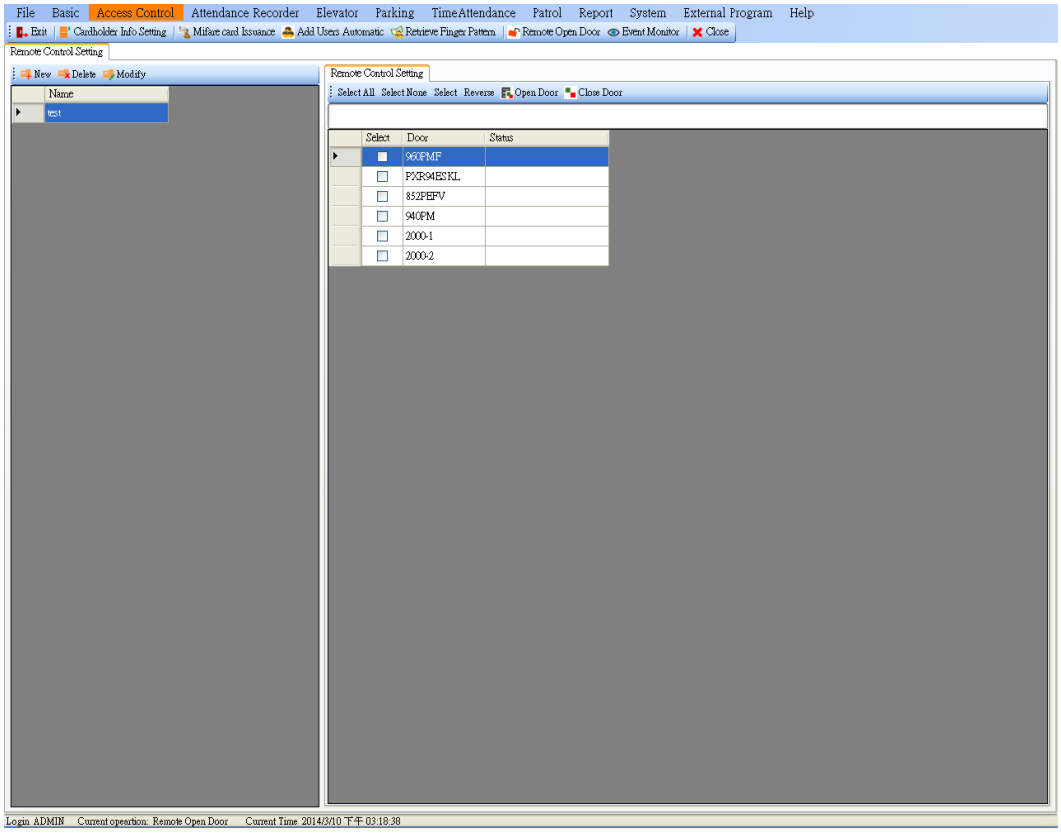


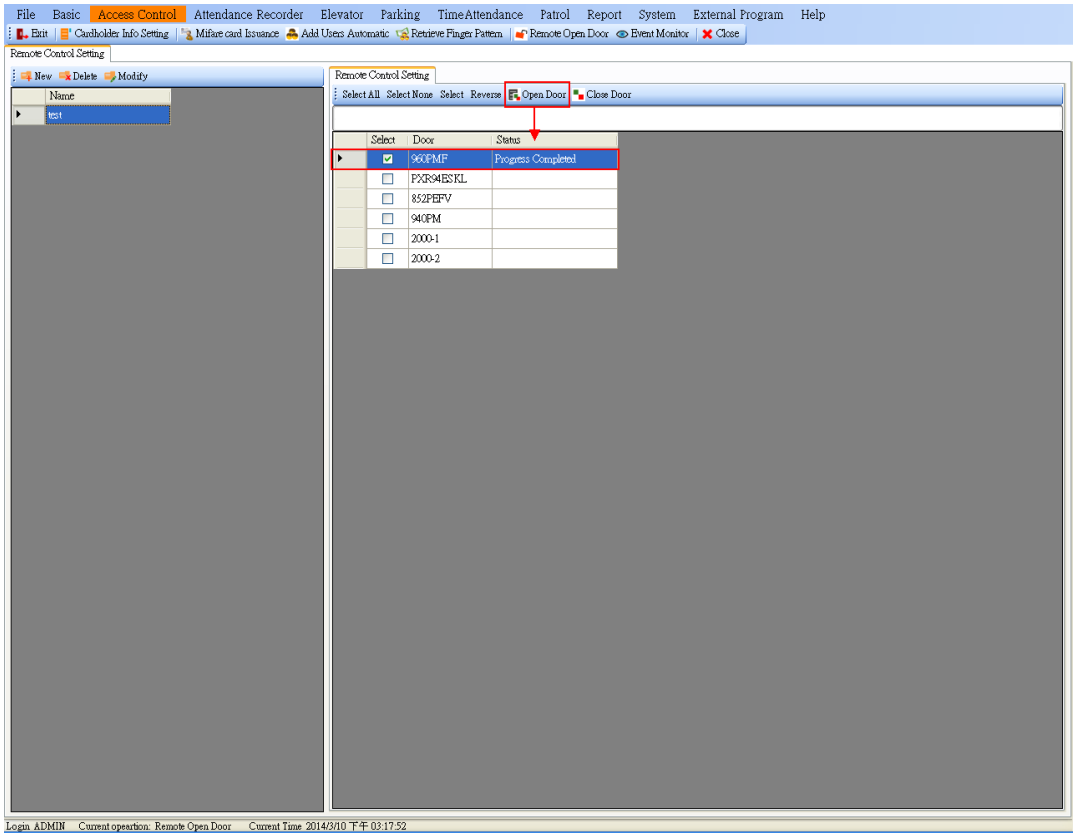
5-13 Remote Open Door

This function is mainly collect access points which support remote open function in a same page and allow operator to remote open door and close door. (Expect recorders and RAC-510,HAC-510,RAC-520, RAC-340, RAC-920, RAC-930 and RAC-820 series)

Operation Steps:

1. Click [New] to create a group.
2. Select the access point which operator wants to remote open and close.
3. Click [Open Door] or [Close Door], once system execution is completed, it will display the current status.




File
Basic
Access Control
Attendance Recorder
Elevator
Parking
TimeAttendance
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare card Issuance
Add Users Automatic
Retrieve Finger Pattern
Remote Open Door
Event Monitor
Close
Remote Control Setting
New
Delete
Modify
Name
test
Remote Control Setting
Select All
Select None
Select
Reverse
Open Door
Close Door
Select
Door
Status
960FMF
Progress Completed
PXR94ESKL
852PEFV
940FM
2000-1
2000-2
Login ADMIN
Current opeartion: Remote Open Door
Current Time 2014/3/10 下午 03:17:52

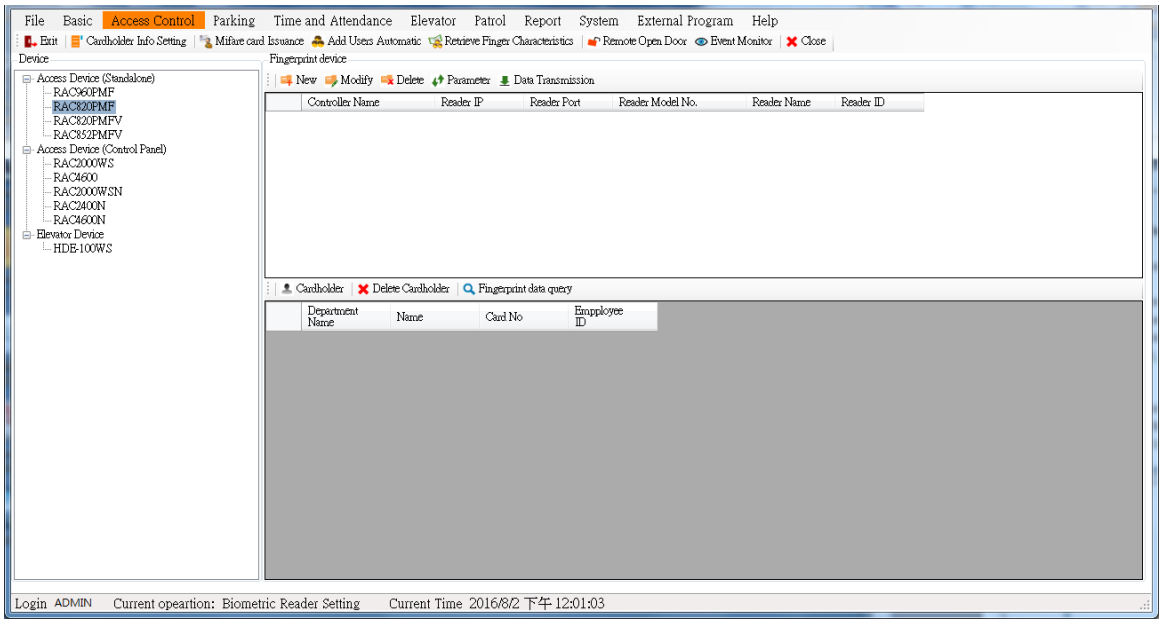
5-14 Biometric Reader Setting

Adds fingerprint reader under fingerprint standalone controller or under access control panel.

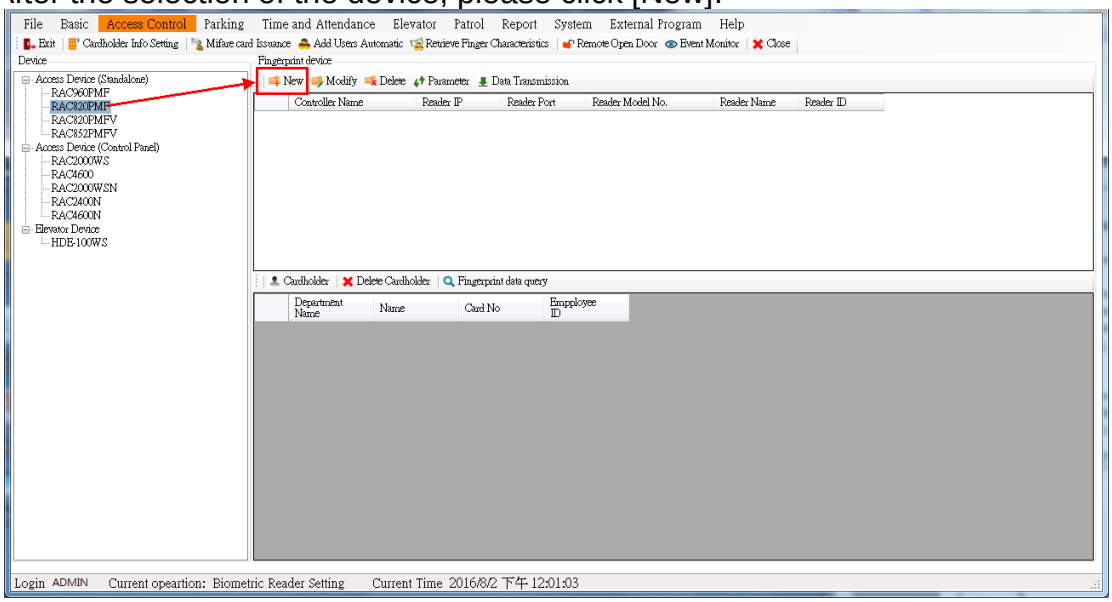
Note：*The fingerprint reader needs to work with software HFES and the fingerprint enrollment FM-800. For more details, please refer to the user manual HFES.

Operation Steps:

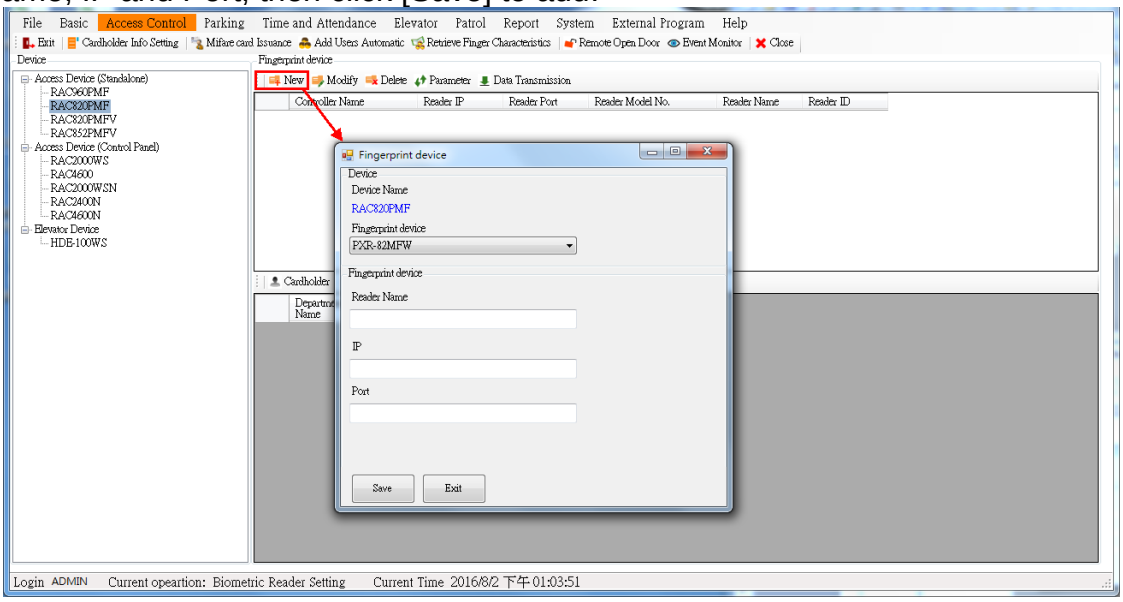
1. The devices are listed on the left panel, please select the device.
   - Access Device(Standalone)
   - Access Device(Control Panel)
   - Elevator Device

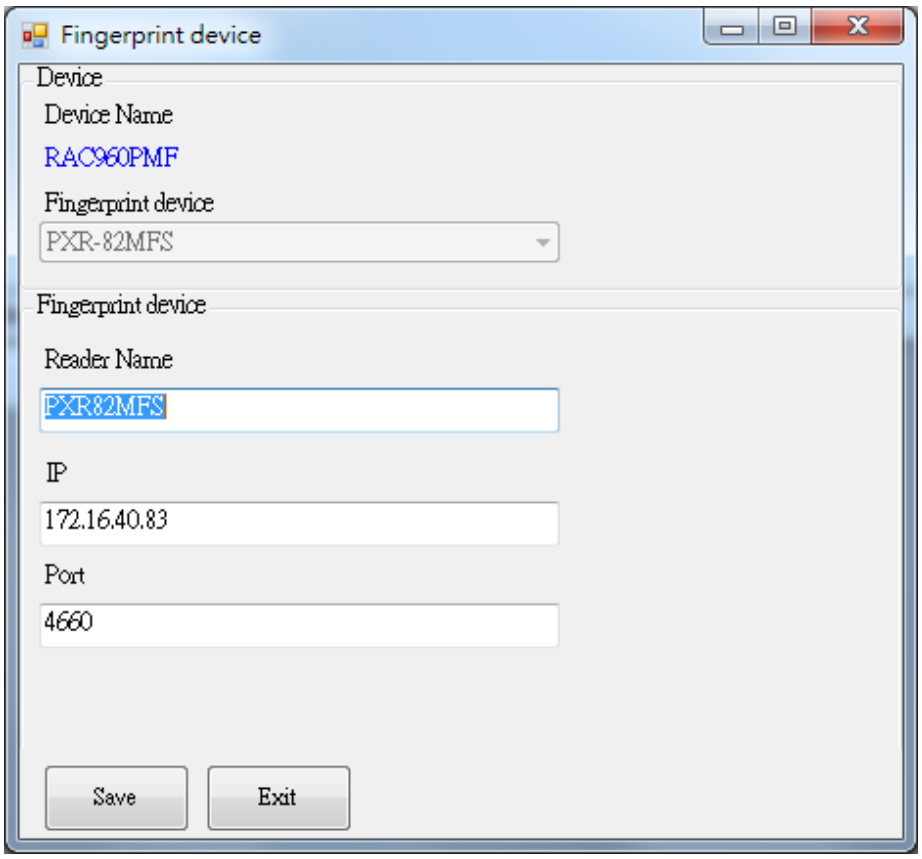


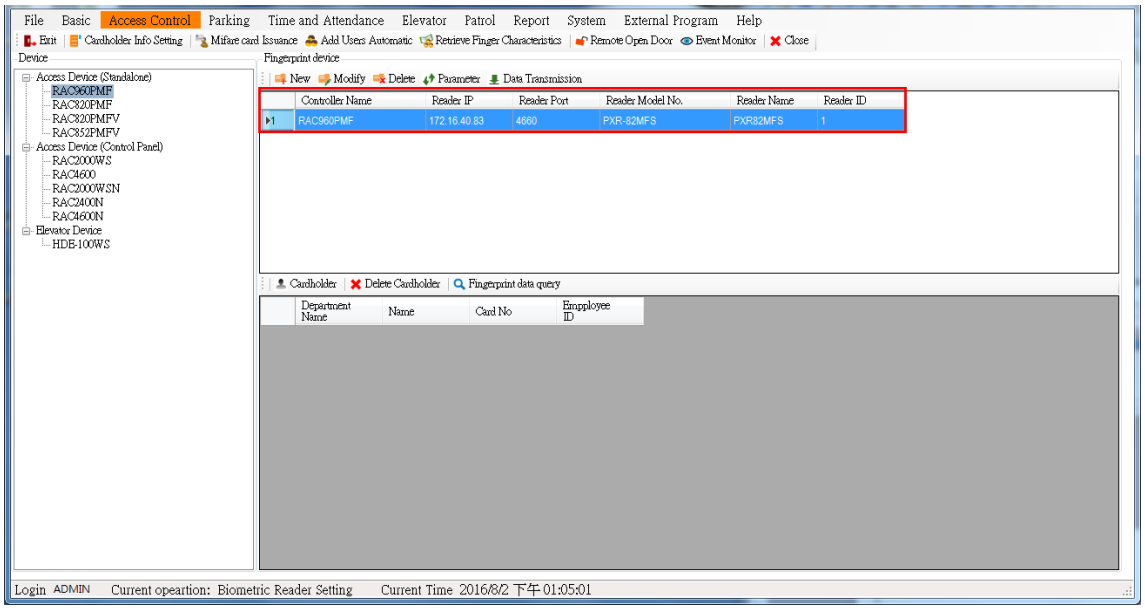
2. After the selection of the device, please click [New].



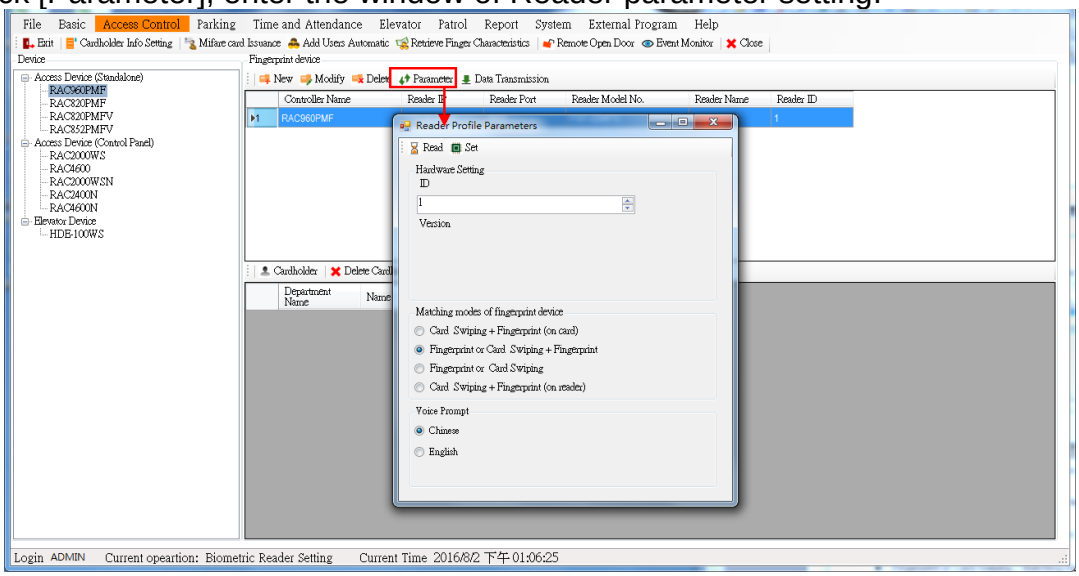
3. Enter the window of biometric reader, select the reader model number, enter reader name, IP and Port, then click [Save] to add.




Fingerprint device
Device
Device Name
RAC960PMF
Fingerprint device
PXR-82MFS
Fingerprint device
Reader Name
PXR82MFS
IP
172.16.40.83
Port
4660
Save
Exit


File Basic Access Control Parking Time and Attendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Characteristics Remote Open Door Event Monitor Close
Device
Access Device (Standalone)
RAC960PMF
RAC820PMF
RAC820PMFV
RAC852PMFV
Access Device (Control Panel)
RAC2000WS
RAC4600
RAC2000WSN
RAC2400N
RAC4600N
Elevator Device
HDE-100WS
Fingerprint device
New Modify Delete Parameter Data Transmission
Controller Name Reader IP Reader Port Reader Model No. Reader Name Reader ID
RAC960PMF 172.16.40.83 4660 PXR-82MFS PXR82MFS 1
Cardholder Delete Cardholder Fingerprint data query
Department Name Name Card No Empployee ID
Login ADMIN Current opeartion: Biometric Reader Setting Current Time 2016/8/2 下午 01:05:01

4. Click [Parameter], enter the window of Reader parameter setting.



5. Click [Read] to retrieve reader's parameters to systems, select the parameter, then click [Set] to download to reader.

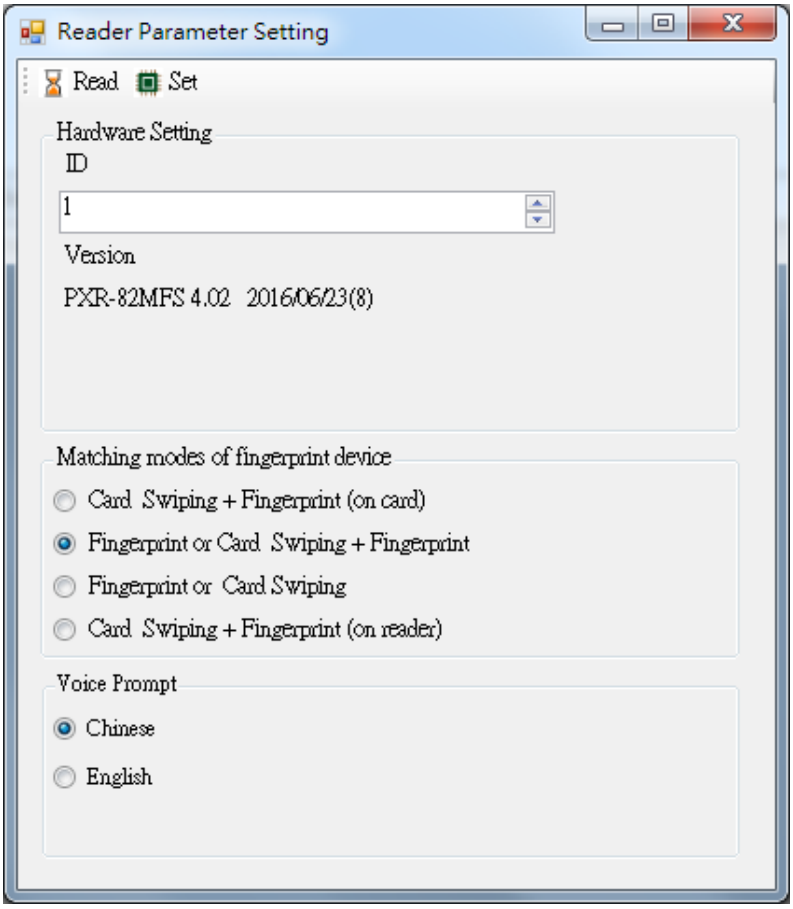
Hardware Setting：This function supports to set ID directly for the biometric models without dip switch to set ID.

Matching modes of fingerprint device：(Do not support the finger vein device.)

- Card Swiping + Fingerprint (On Card)：Need to use a specific reader (Only for PXR-81/82 Fingerprint readers).
- Fingerprint or Card Swiping + Fingerprint：Matching modes by fingerprint only or by card swiping + fingerprint.
- Fingerprint or Card Swiping：Matching modes by fingerprint or by card swiping
- Card Swiping + Fingerprint (On reader)：Matching mode by card swiping + fingerprint only.

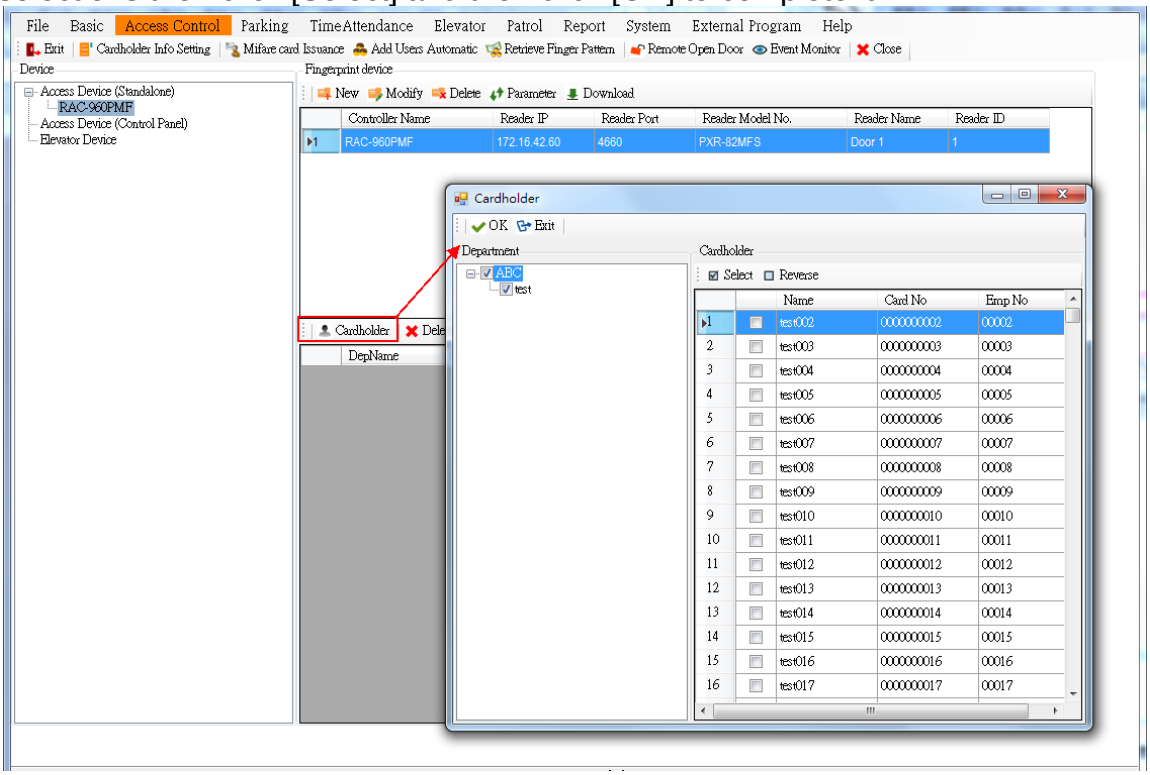
Voice Prompt：

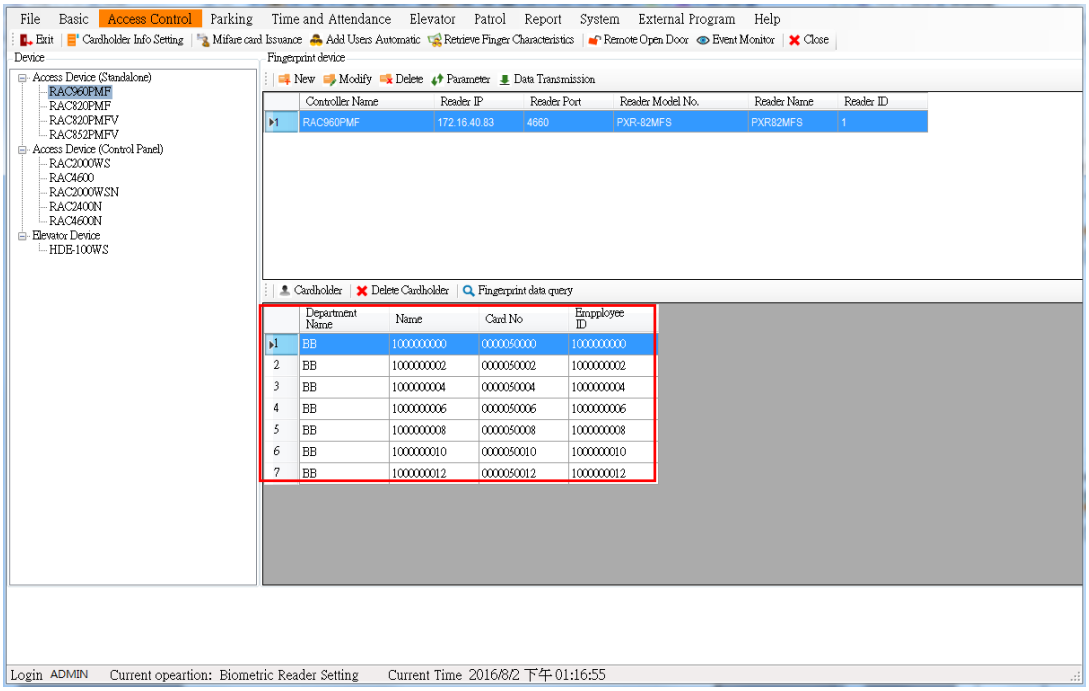
- Chinese：Chinese voice.
- English：English voice.



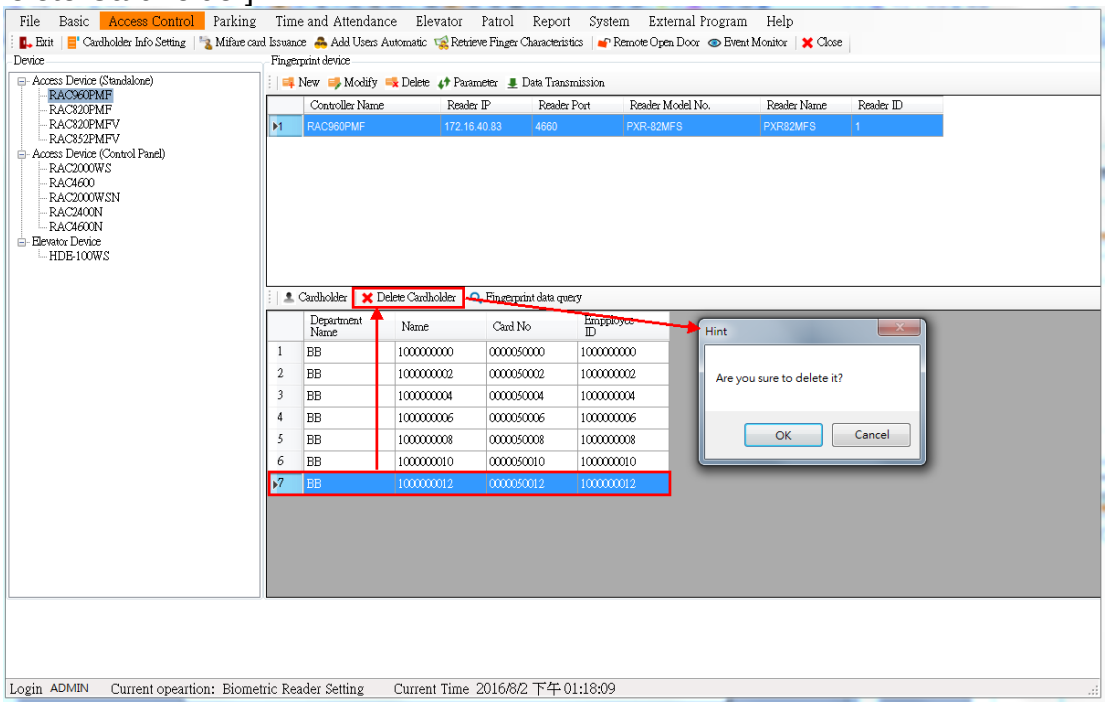
6. Click [Cardholder]. and then click department first to show all members in the department then select the cardholder.

   Shortcuts: Use Ctrl + Mouse for multiple selections or Shift+ Mouse for consecutive selections then click [Select] and then click [OK] to complete it.

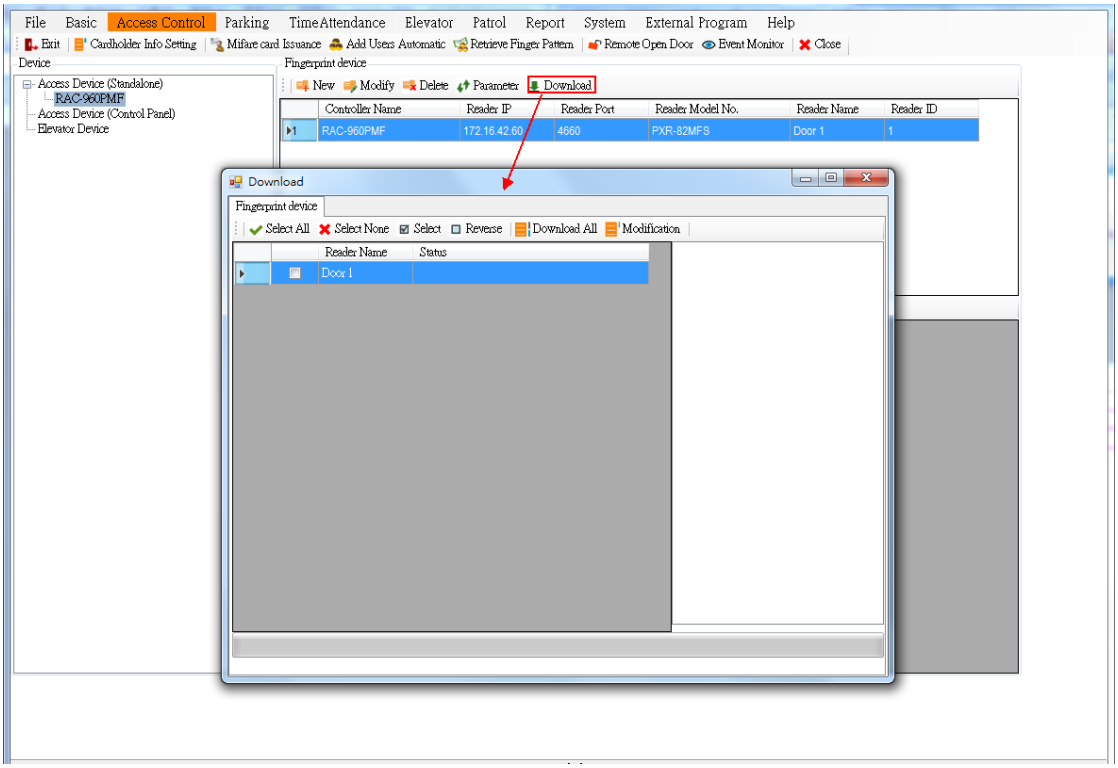




7. If case of need to delete cardholders, please select the cardholders then click [Delete Cardholder].

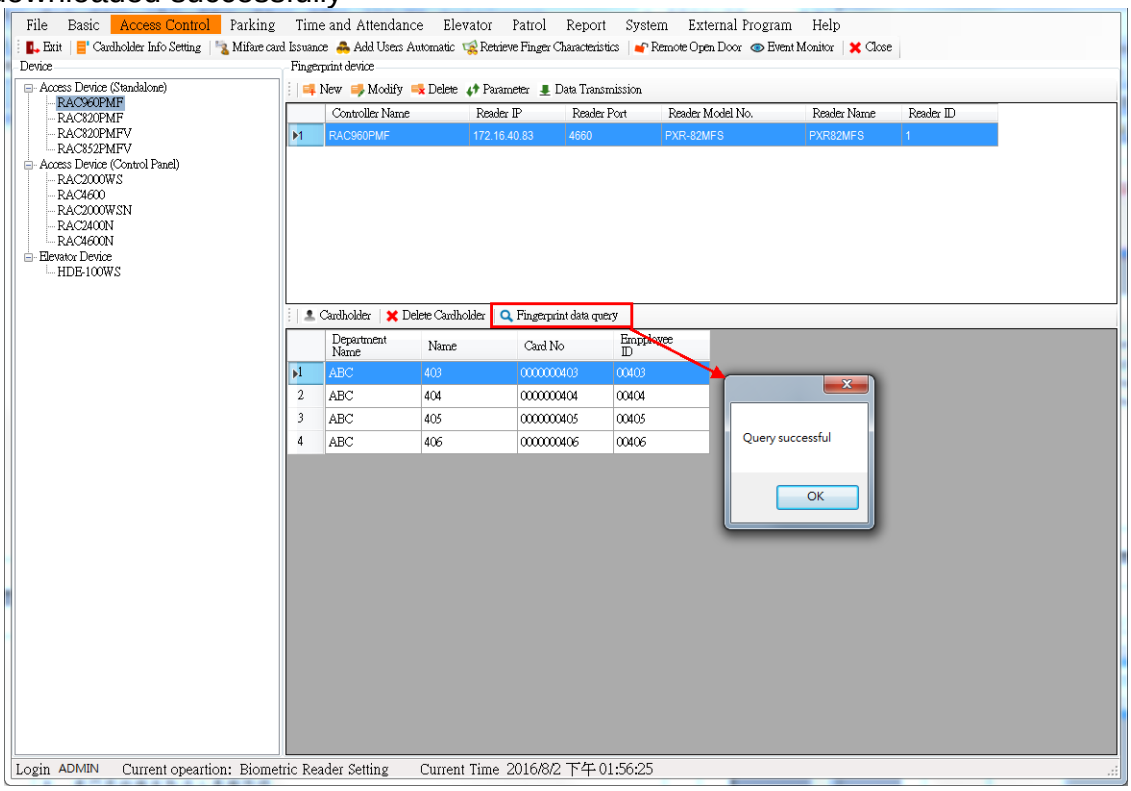


8. After completing the selection of the cardholders, click "Download" to choose devices to download. Allows to select all devices (meaning download to all devices) or select one device (meaning download to the selected device). then click [Download All] or [Modification] to download the authorizations to all or selected devices.



9. Click "Fingerprint data query" to check whether the users' authorizations have been downloaded successfully

   If the message box shows "Query Successful", it means all authorizations have been downloaded successfully



6. Parking

6-1 Parking Hardware Setting

6-1-1 Parking Setting

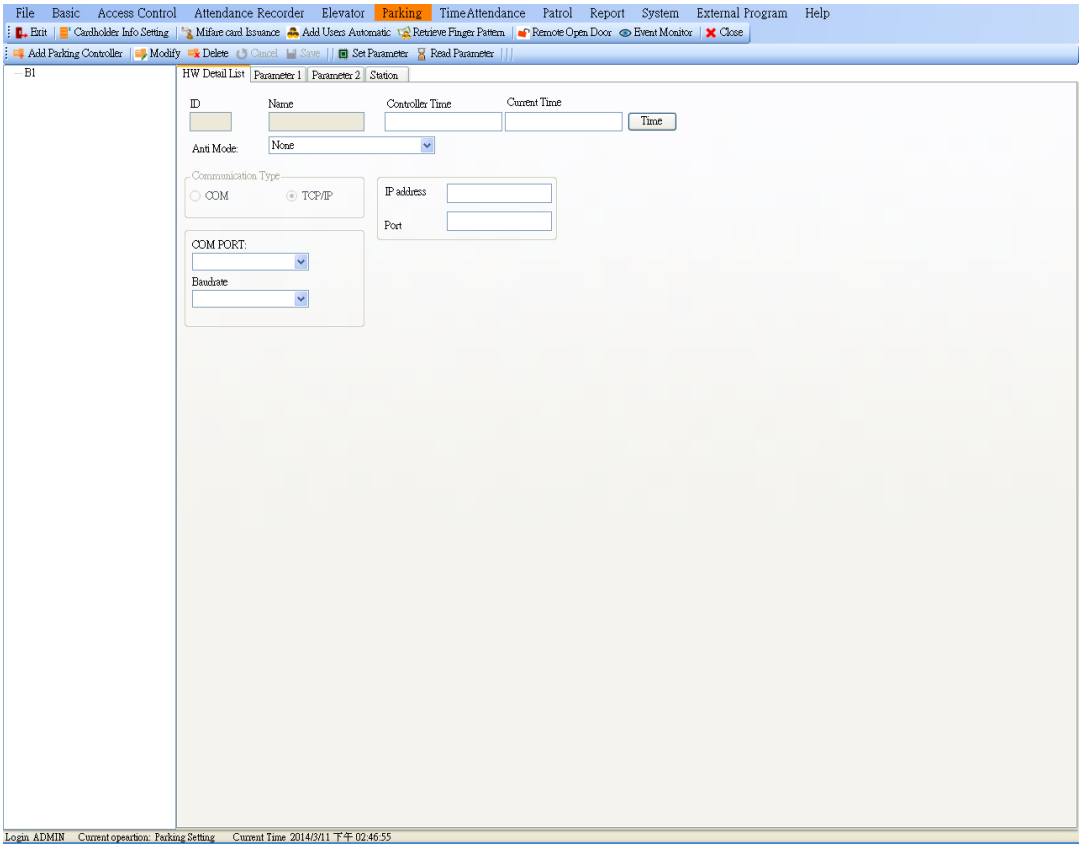
Operation Steps：

1. Go to “Add Parking Controller” workspace.
2. Input device ID and name
3. Communication type：Select COM PORT or TCP/IP. For COM PORT, please make sure the COM PORT number and baud rate is 19200. For TCP/IP, please input IP address and port
4. Select Anti Mode. Default is none.
   - Anti-pass back Mode：

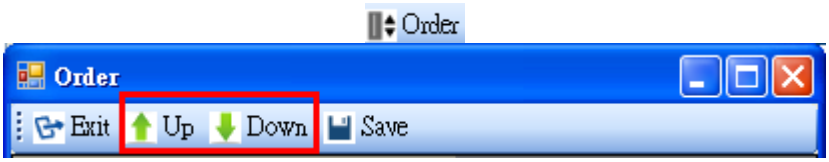
     0. None: Does not use Anti-pass back function. (Default)
     1. Gate 1 In/Out only: Access only in Gate 1.
     2. Anti by Reader
     3. Gate 1 In/Gate 2 Out

Model	Mode	Gate Relay and Reader action
HDP-100	1(Control single Gate)	Gate1 IN & Out. (Reader1 and Reader 2 for IN & Reader 3 and Reader 4 for OUT)
HDP-100	2(Control two Gates)	Gate1 IN (Reader1) & OUT (Reader 2) Gate2 IN (Reader3) & OUT (Reader4)
HDP-100	3(Control two Gates)	Gate1 IN (Reader1、2 for IN)& Gate2 OUT (Reader3、4 for OUT)

5. Click「Save」 to save the settings. Click 「Time」to read device time and to ensure if system is connected with the device.



6 . Click Order may sort the devices.

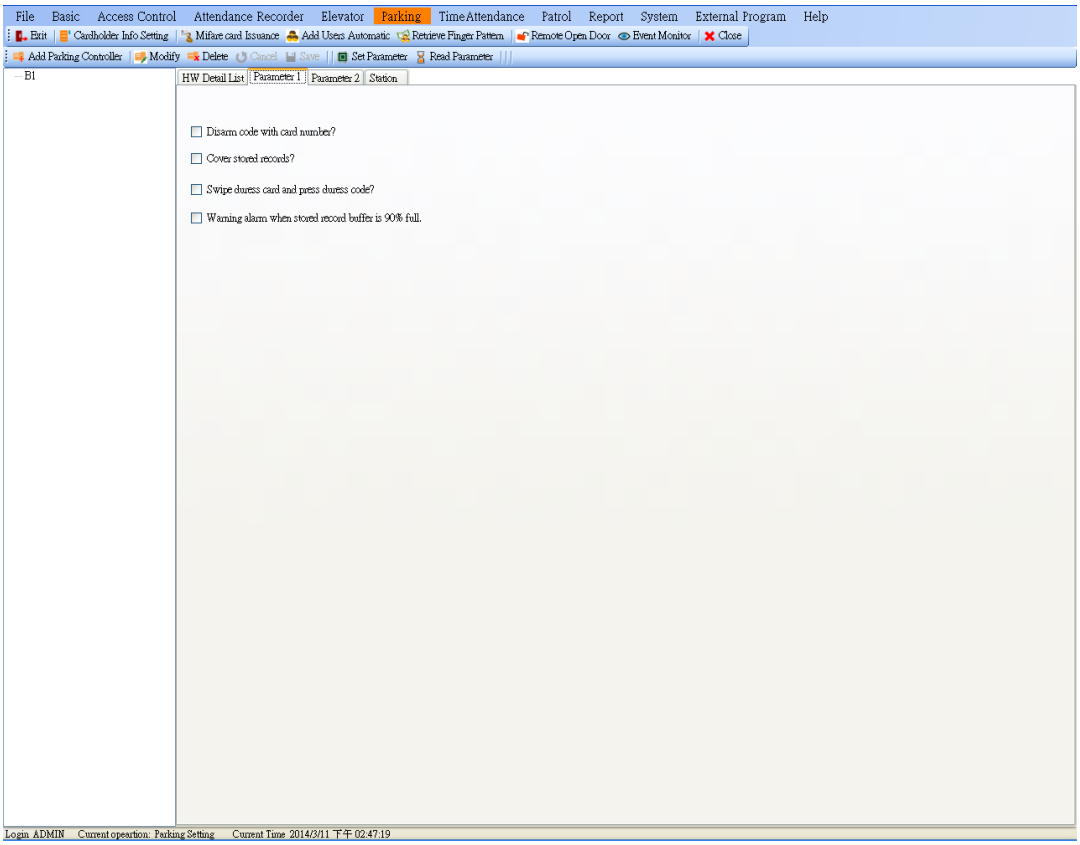


6-1-2 Parameter 1

It is mainly to modify follow device parameters.

Operation Steps：

1. Select the controller on the left panel.
2. Go to Parameter 1 workspace.
3. Tick the check box to modify the parameter：
   - Disarm code with card number：To disable the alarm, users need to press disarm code then swipe card.
   - Cover stored records：Select to overwrite data or stop saving data when the storage limit is exceeded.
   - Swipe duress card and press duress code：To activate alarm, user needs to swipe duress card then press duress code.
   - Warning alarm when stored record buffer is 90% full：When stored records are reaching 90% full, system will activate a warning alarm.
4. Click「Save」 and please download the parameter for the settings to take place.



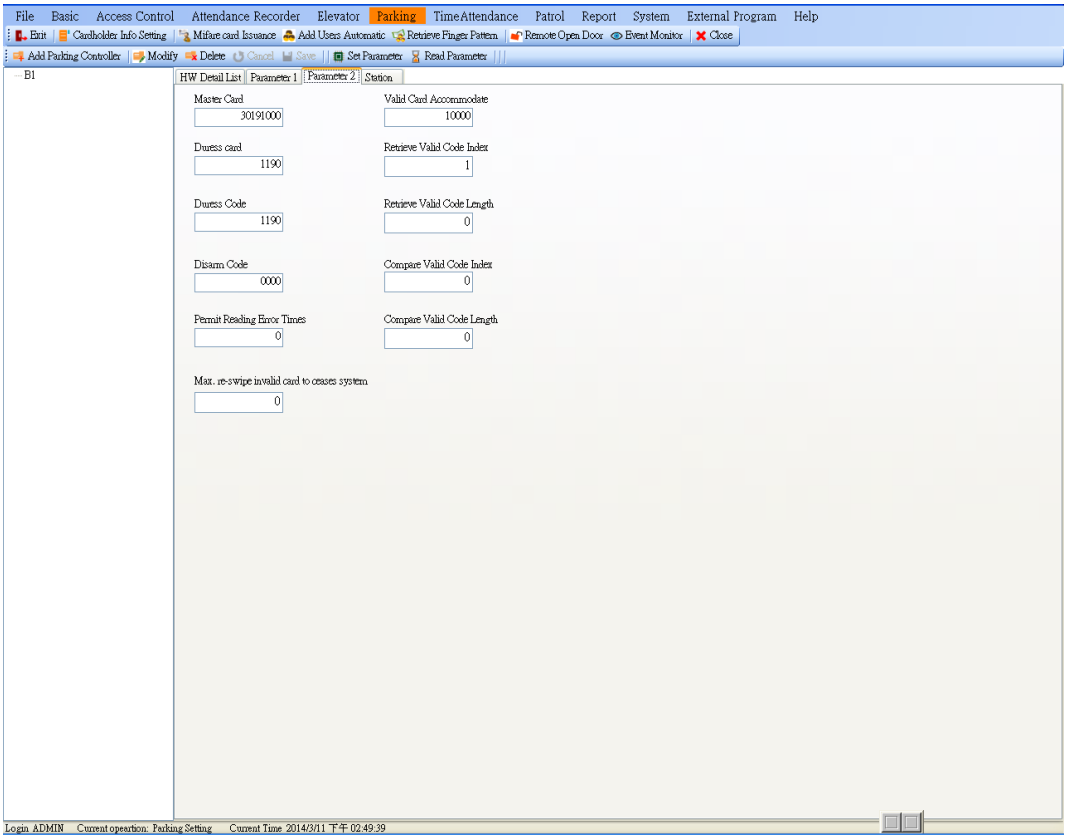
6-1-3 Parameter 2

It is mainly to modify follow device parameters.

Operation Steps：

1. Select the controller on the left panel.
2. Go to Parameter 2 workspace.。
3. Parameter contents：
   - Master Card：This number is allowed users into setup mode. Kindly refer to hard-ware manual.
   - Duress Card：Alarm will be activated and gate barrier will be opened upon swiping duress card.
   - Duress Code：Alarm will be activated and gate barrier will be opened upon pressing duress code.
   - Disarm Code：Deactivates alarm upon inputting disarm code.
   - Number of re-swipe card to signal warning：Allowed error times of re-swiping the same card. To enable this function, “Max. re-swipe invalid card to ceases system” function should also be activated.
   - Max. no. of valid card:： Default is 10000pcs, maximum is 15000pcs.

   *** Changing valid card quantity, will re-allocate the memory of the controller. All old records and authorization in the controller will be cleared!!
   - Retrieve Valid Code Index：The index digit of retrieve valid card no.
   - Retrieve Valid Code Length：How many digits you want to retrieve of valid card no. Ex: Card No. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card no. should be 234567 too, otherwise the Gate will not open.
   - Compare Valid Code Index：The index digit of compare valid card no.
   - Compare Valid Code Length：How many digits you want to compare. Ex: Card No. is 1234567890, if compare index is 1, compare length is 3. Valid cards with number starting with 123 will be granted access.
   - Max. re-swipe invalid card to ceases system：How many seconds the device will stop working when re-swiping invalid card. After a certain period of time, the device will function again. This function works hand in hand with “Number of re-swipe card to signal warning” Function.
4. Click「Save」 and please download the parameter for the settings to take place.

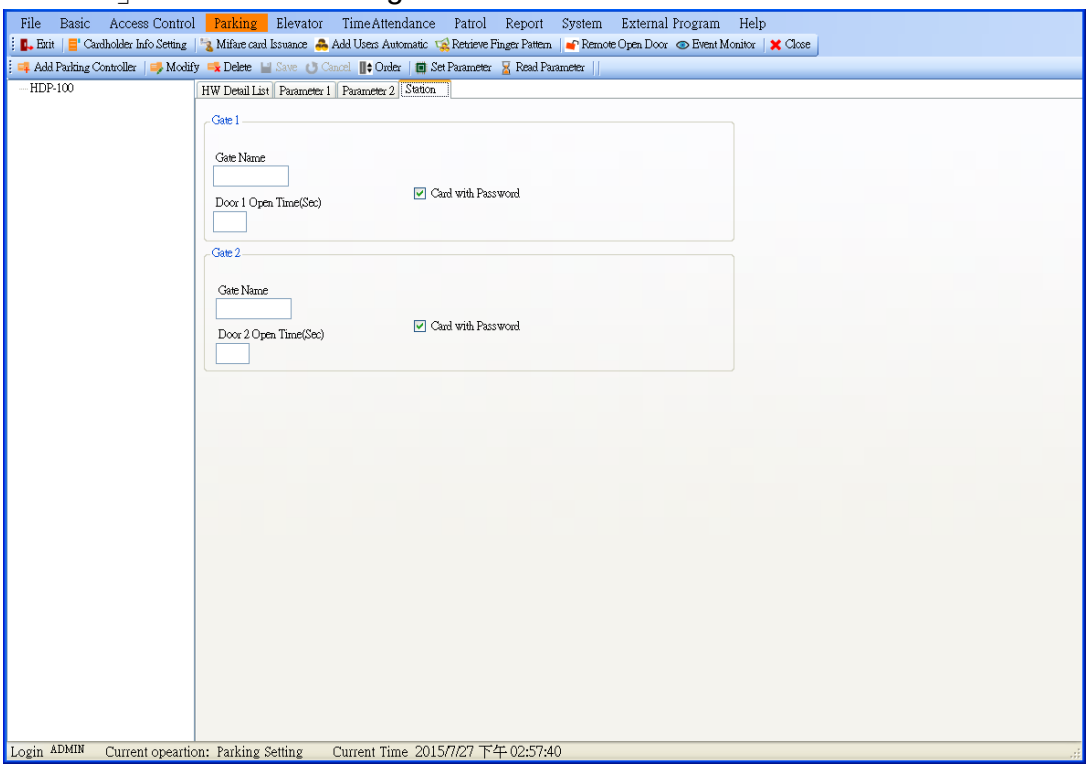

File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Add Parking Controller Modify Delete Cancel Save Set Parameter Read Parameter
B1
HW Detail List Parameter 1 Parameter 2 Station
Master Card
30191000
Valid Card Accommodate
10000
Duress card
1190
Retrieve Valid Code Index
1
Duress Code
1190
Retrieve Valid Code Length
0
Disarm Code
0000
Compare Valid Code Index
0
Permit Reading Error Times
0
Compare Valid Code Length
0
Max. re-swipe invalid card to ceases system
0
Login ADMIN Current opeartion: Parking Setting Current Time 2014/3/11 下午 02:49:39

6-1-4 Station

It is mainly to modify gates' name.

Operation Steps：

1. Select the controller on the left panel.
2. Go to Station workspace.
3. Input Gate name.
4. Enter open duration for the barrier gate. (The default setting is 4 seconds)
5. Click「Save」to save the settings.



6-2 Time Zone

Parking time schedule setting is combined with Access control time schedule settings. Please refer to 5-4 Access Control Time Schedule Setting.

6-3 Parking Auth. Setting

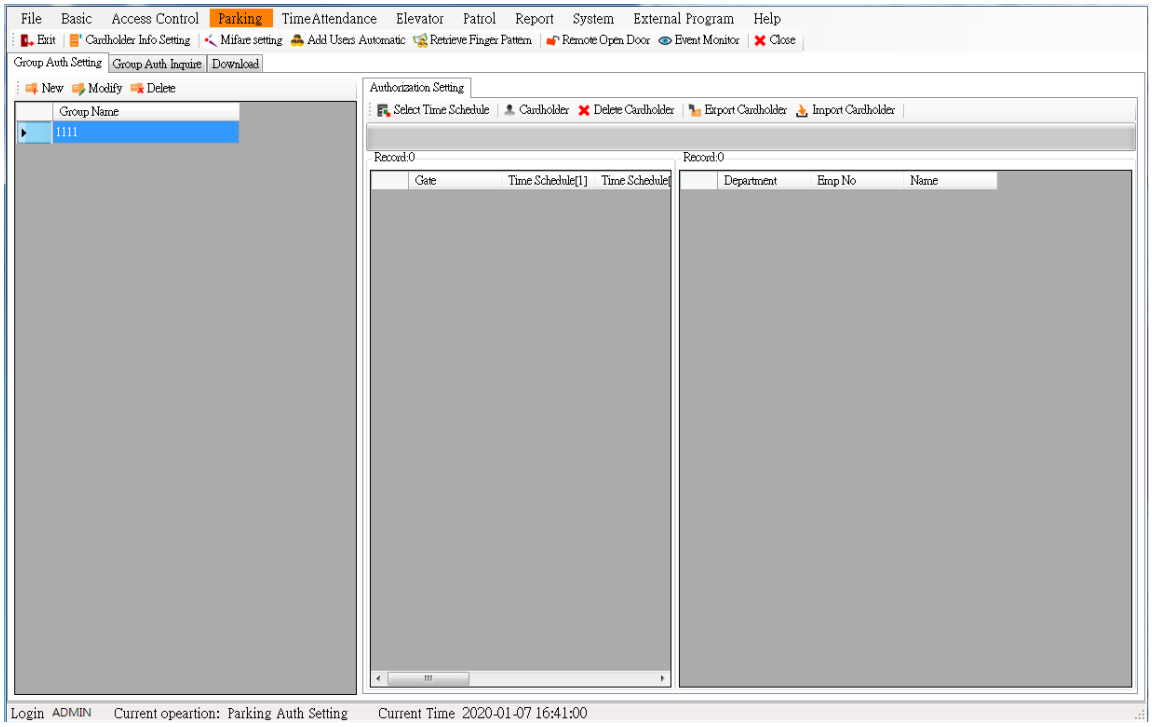
Before setting parking authorization, please download time zone and time schedule to the device in advance.

The parking download function is combined with Access control download. Please refer to 5-5 Access Control Download.

6-3-1 Group Authorization Setting

It is mainly to create access group and assign users authorization.
Operation Steps：

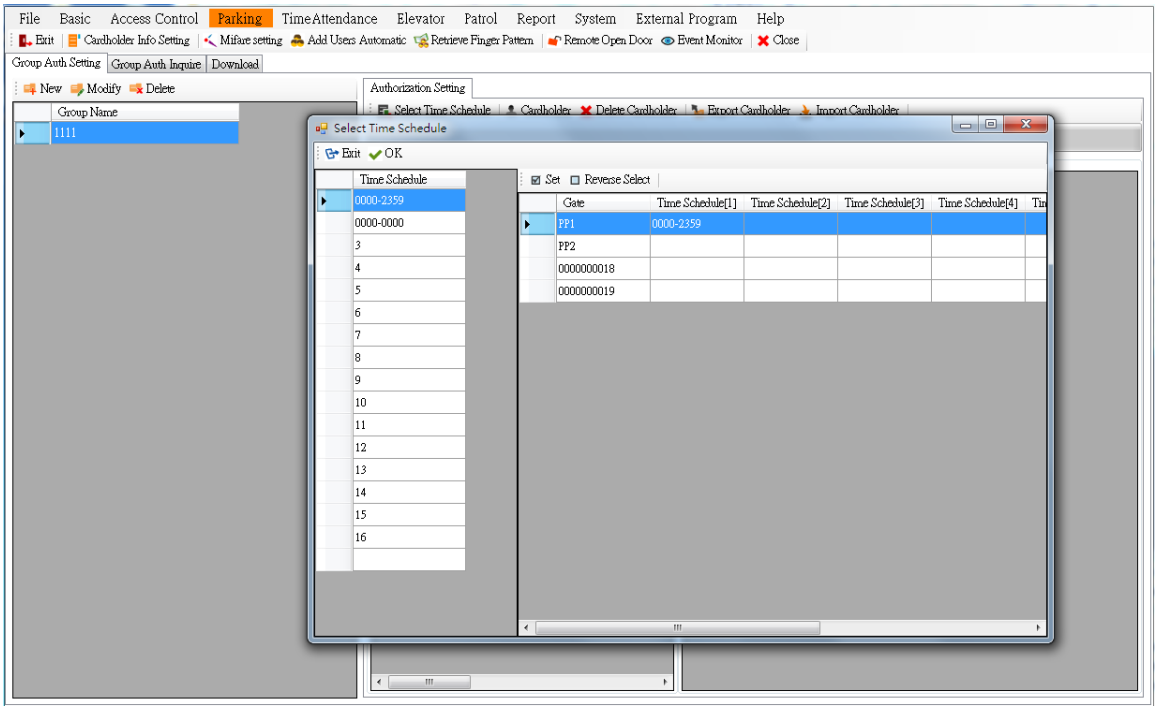
1. Click「New」.
2. Input group name.
3. Click「Save」to save the setting.



4. Go to「Time Schedule」. Tick doors which you want to authorized.

Hint: Speedy Selection: Press CTRL key and select doors by mouse or press SHIFT key and select doors successively by mouse.

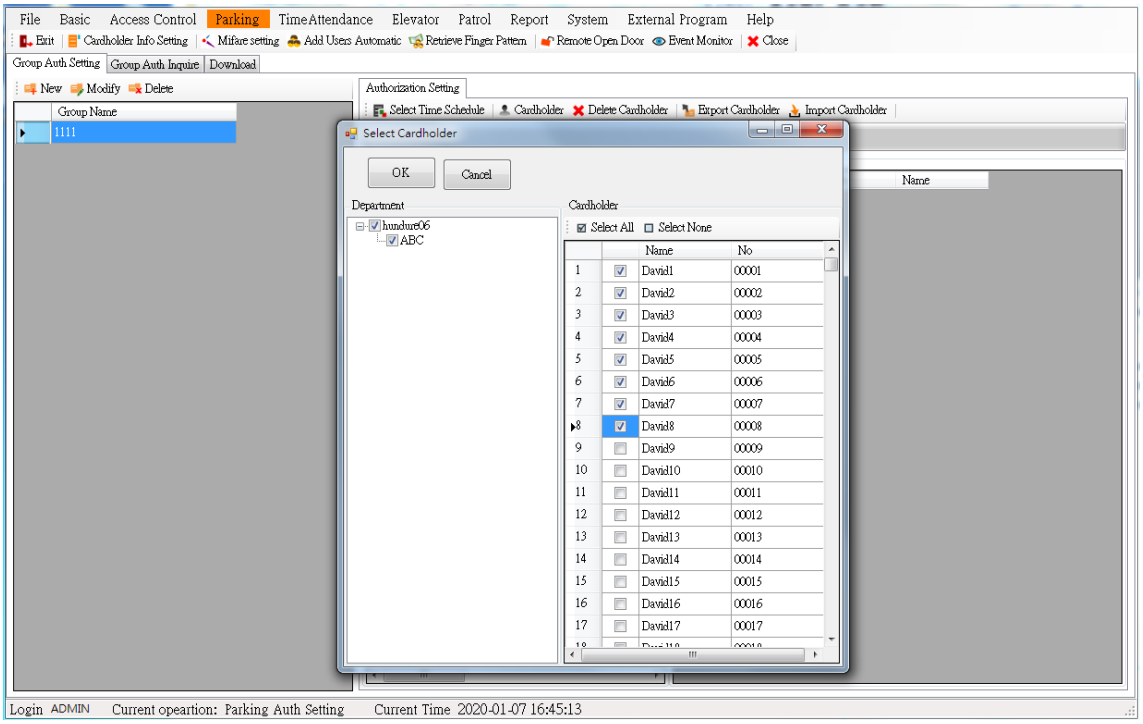
5. Click「Save」.



6. Go to「Cardholder」. Tick the department then you will read cardholder list which belong

7. Click「Save」to save the setting. If want to delete the selection, please remove the tick.

After setting completed, click 「Export Cardholder」, system will produce a txt file base on the setting. The file only includes cardholder name and authority by department. This file may import to system and use for other group authorization

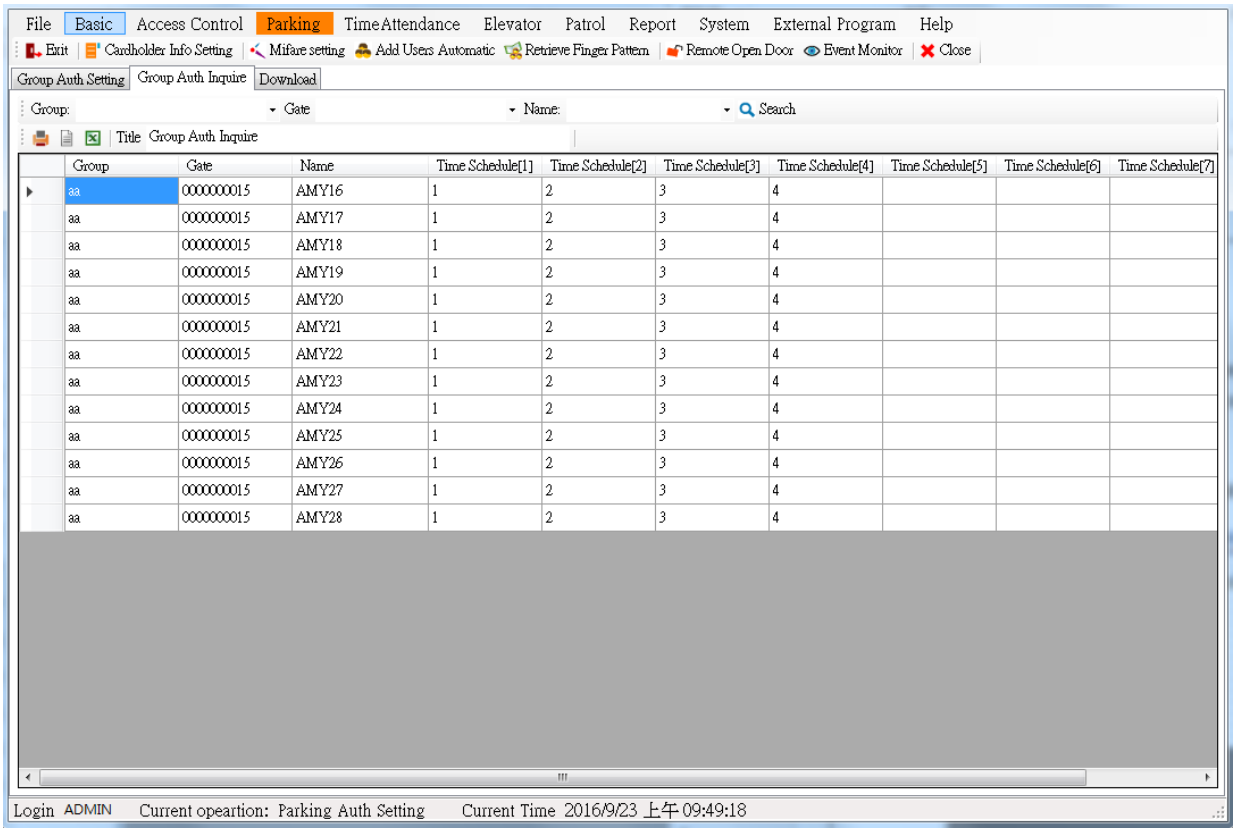

File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare setting Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Group Auth Setting Group Auth Inquire Download
New Modify Delete
Group Name
1111
Authorization Setting
Select Time Schedule Cardholder Delete Cardholder Export Cardholder Import Cardholder
Name
Select Cardholder
OK
Cancel
Department
hundure06
ABC
Cardholder
Select All Select None
Name No
1 David1 00001
2 David2 00002
3 David3 00003
4 David4 00004
5 David5 00005
6 David6 00006
7 David7 00007
8 David8 00008
9 David9 00009
10 David10 00010
11 David11 00011
12 David12 00012
13 David13 00013
14 David14 00014
15 David15 00015
16 David16 00016
17 David17 00017
Login ADMIN Current opeartion: Parking Auth Setting Current Time 2020-01-07 16:45:13

6-3-2 Group Authorization Inquire

Enquire user's authorization. Specify the range according to Group, door and User name. Report provides print function and can be converted to TXT or XLS format for other application.

Operation Steps：

1. Check dynamic drop-down menu, you will read group, door, time schedule and name.
2. Click 「Search」.

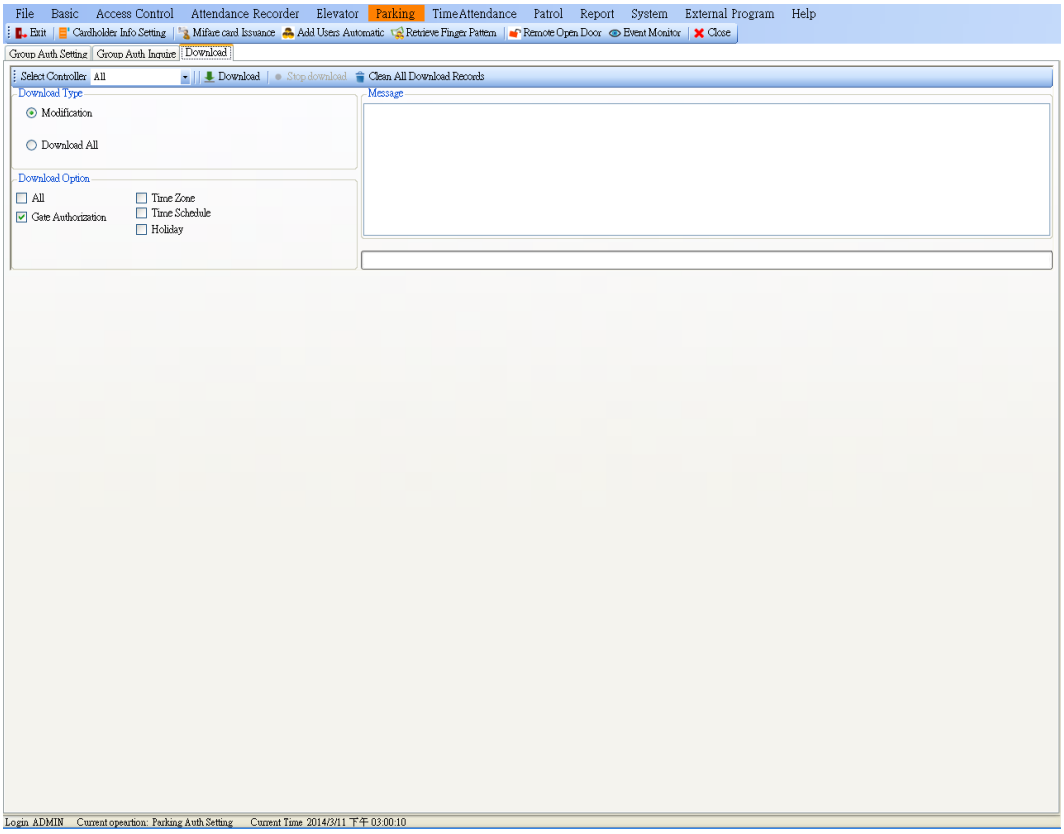


6-3-3 Download

It is mainly to download users ‘authorization to device.

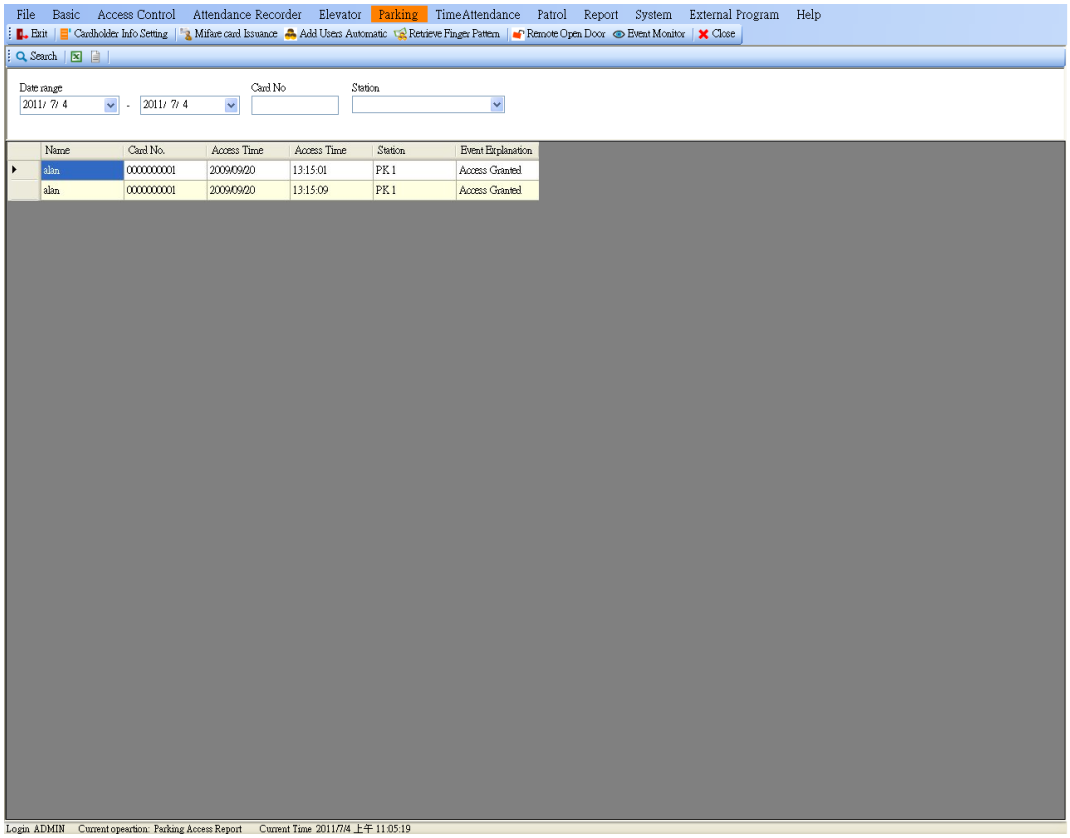
Operation Steps：

1. Select downloading by group auth or by device.
2. Select group or device or select “All” to downloading.
3. Click「Start」to start the download.



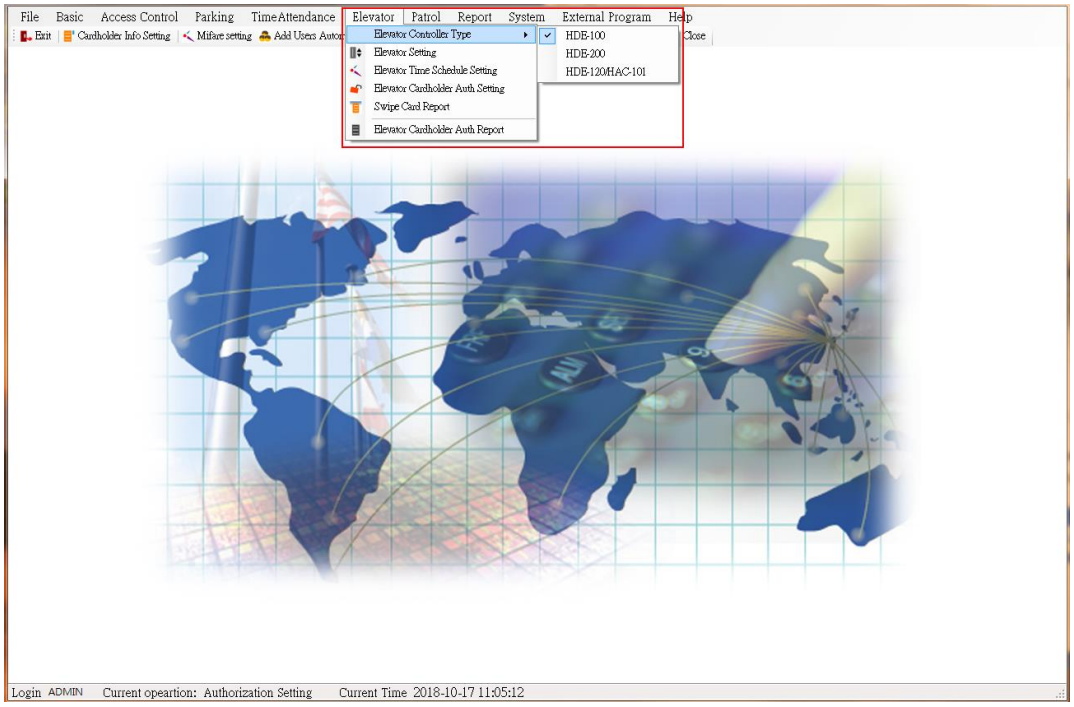
6-4 Parking Cardholder Auth. Report

Report will show cardholder authorizations of parking. Quickly search by date, card number, cardholder name and station. Report can be converted to TXT or XLS format for other application.

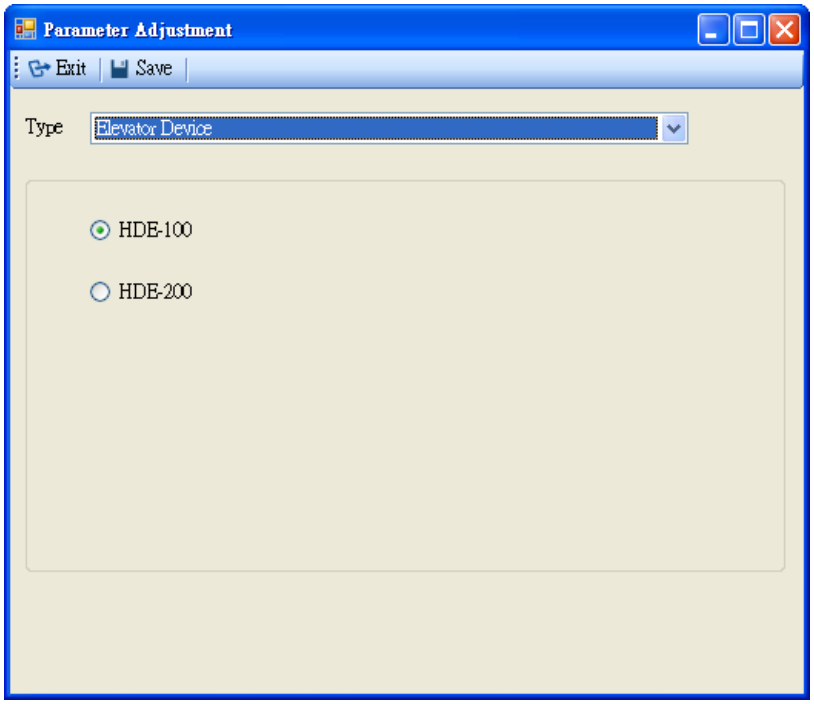


7. Elevator

There are three elevator models. Please select which elevator controller you are using first, and then continue to set parameters and authorization. (HDE-100 is default elevator model.)



Default elevator model is HDE-100. To modify device type, please go to File→ Parameter Adjustment→ Elevator Device to select correct model. After click [Save], setting completed.



7-1 Elevator Setting (HDE-100)

Elevator setting includes add new controller, set communication, and modify parameter and reader

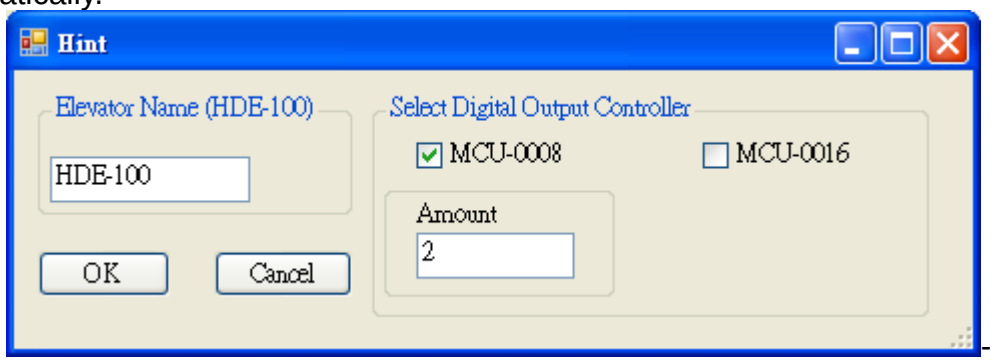
7-1-1 Add HDE-100

Operation Steps：

1. Set the elevator name of HDE-100.
2. Select MCU model number and enter the number of MCU expansion panel connected with HDE-100.
3. Click「OK」to save the settings. Or Click『Cancel』to delete the setting.

Note:HDE-100 maximum controls 64 floors and 4pcs of digital output controller. The ID of digital output controller should be 3~6. If connect MCU-0016 and MCU-0008 with a HDE-100 at the same time, MCU-0016's ID must be front of MCU-0008.

Ex: ID3 and ID 4 are MCU-0016, ID5 is MCU-0008, please select MCU-0016, amount are 2. Then go to 7-1-4 Floor setting to add MCU-0008. The system will get corresponding ID automatically.

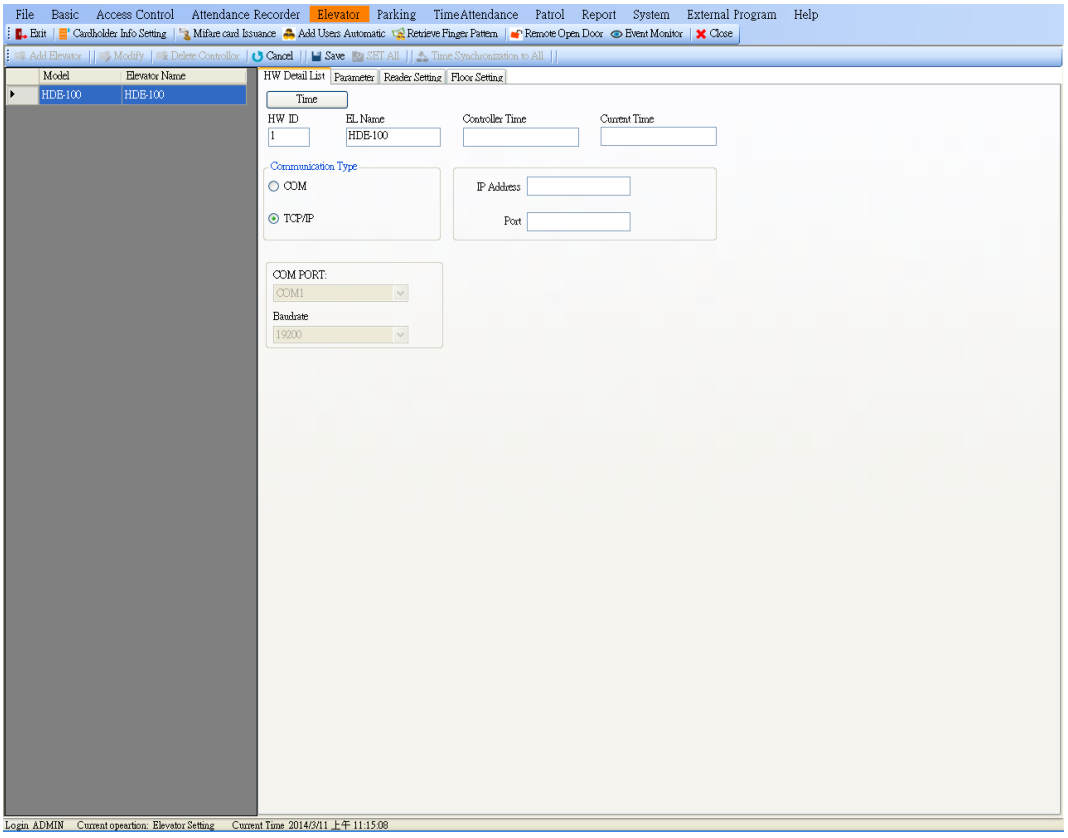


7-1-2 Hardware Detail List

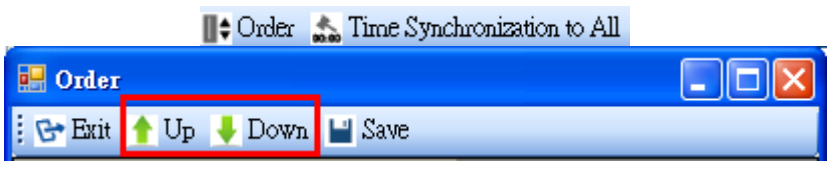
Set communication between HDE-100 and PC.

Operation Steps：

1. Select a model from the left panel and click「Modify」.
2. HDE-100's ID should be unique.
3. Communication type：Select COM PORT or TCP/IP. When using COM PORT, please make sure the COM PORT number and baud rate is 19200. When using TCP/IP, please input IP address and port
4. Click「Save」 to save the settings. User can click「Time」to make sure if system is connected with device. If Time Synchronization to All failed, system will generate a log report under C:\Program Files\HAMS-20, named ErrorLog.txt. Kindly refer to appendix for error code.



5. Click Order may sort the devices.



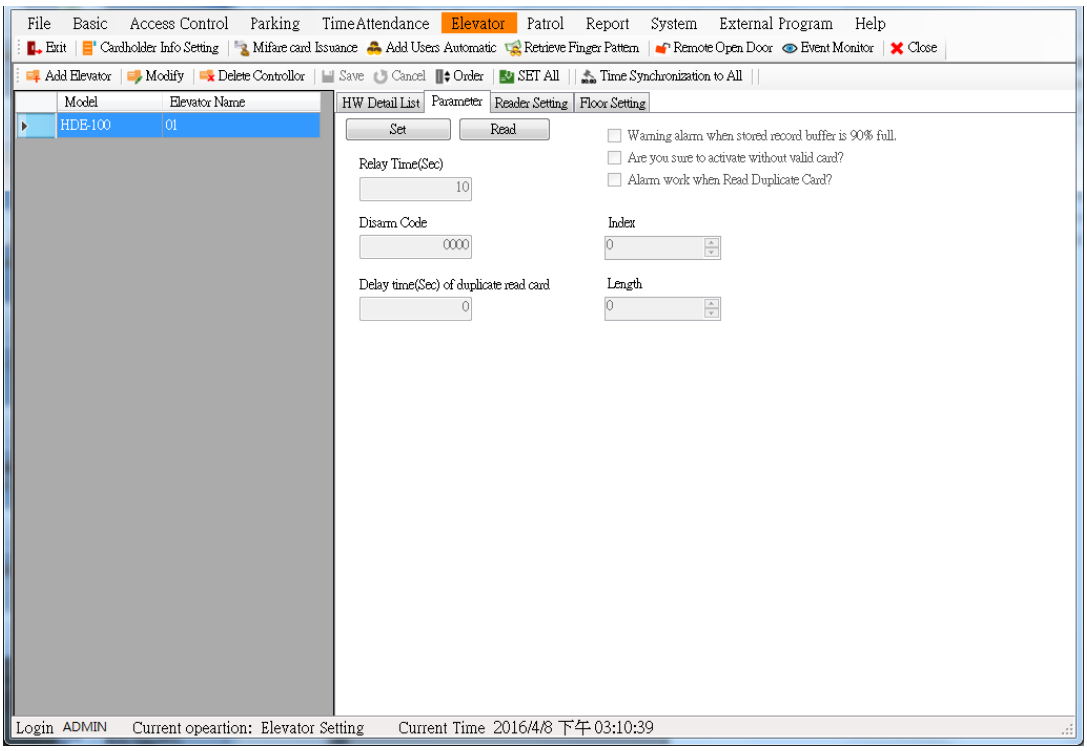
6. Click Time Synchronization to All may correct all devices' time once.

7-1-3 Modify Parameter

Please click「Read」to retrieve current device parameter.

Operation Steps：

1. Select the controller on the left panel
2. Click「Modify」.
3. Go to “Parameter” workspace.
4. Parameter contents：
   - Relay Time：MCU relay activation time (Default：10 seconds).
   - Disarm Code：When alarm happens, it can be deactivated if the disarm code is entered. (Default code is 0000).
   - Delay time (sec) of duplicate read card：It works with “Alarm work when Read Duplicate Card”. Default is 0 second which will not activate the alarm.(0~255 seconds)
   - Warning alarm when stored record buffer is 90% full：When stored records are reaching 90% full, system need activate alarm.
   - Are you sure to activate without valid card：Allow swipe any card to active MCU relay. Default is agreed.
   - Alarm work when Read Duplicate Card：Time period from first swipe to second swipe is set through “Delay time (sec) of duplicate read card”.
   - Index: The index digit of retrieve valid card number.
   - Length: How many digits you want to retrieve of valid card no.
     Ex: Card NO. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card no. should be 234567 too, otherwise the door will not open.
5. Click「Save」to save the setting. Then please upload the parameters. If upload failed, system will generate a log report under C:\Program Files\HAMS-20, named ErrorLog.txt. Kindly refer to appendix for error code description.

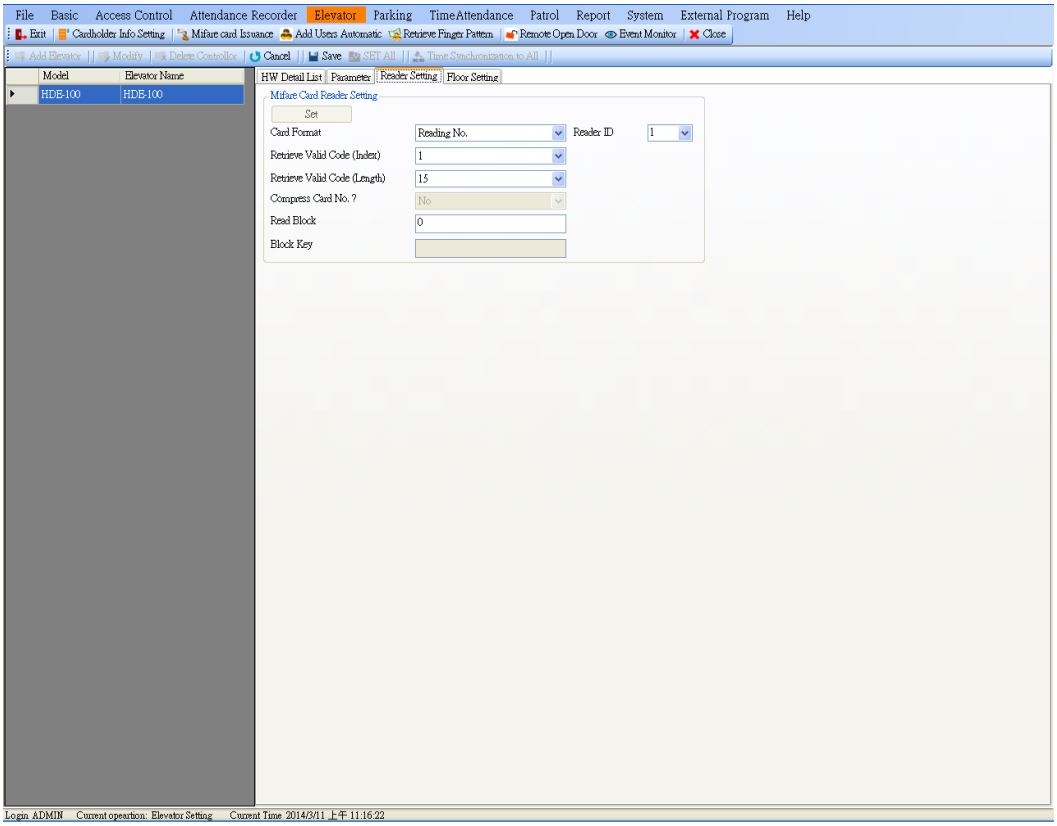

File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Add Elevator Modify Delete Controllor Save Cancel Order SET All Time Synchronization to All
Model Elevator Name
HDE-100 01
HW Detail List Parameter Reader Setting Floor Setting
Set Read
Warning alarm when stored record buffer is 90% full.
Are you sure to activate without valid card?
Alarm work when Read Duplicate Card?
Relay Time(Sec)
10
Disarm Code
0000
Index
0
Delay time(Sec) of duplicate read card
0
Length
0
Login ADMIN Current opeartion: Elevator Setting Current Time 2016/4/8 下午 03:10:39

7-1-4 Reader Setting

Only Mifare reader needs to set parameter. User can select to read Mifare serial card number or read from specific block of Mifare card.

Operation Steps：

1. Select the controller on the left panel and click「Modify」.
2. Go to “Reader Setting” workspace and input reader ID which you want to modify.
3. Modify value (Mifare card parameters have been set in Parameter Adjustment work-space)
   - Card Format：Select Key A or Key B. If user select read serial number, please ignore the following parameters.
   - Retrieve Valid Code (Index)：The index digit of retrieve valid card number.
   - Retrieve Valid Code Length：How many digits you want to retrieve of valid card number. This works with the previous parameter Retrieve Valid Code (Index)
   - Compress Card No.：Compressed or not. Default value is 0. To modify the value, please go to File→ Parameter Adjustment→Mifare Reader→ Compress.
   - Block Key： Default is key A value. For modify the key value, please go to File→ Parameter Adjustment→Mifare Reader→ Key A.
4. Click「Save」and 「Set」to download the setting to HDE-100.

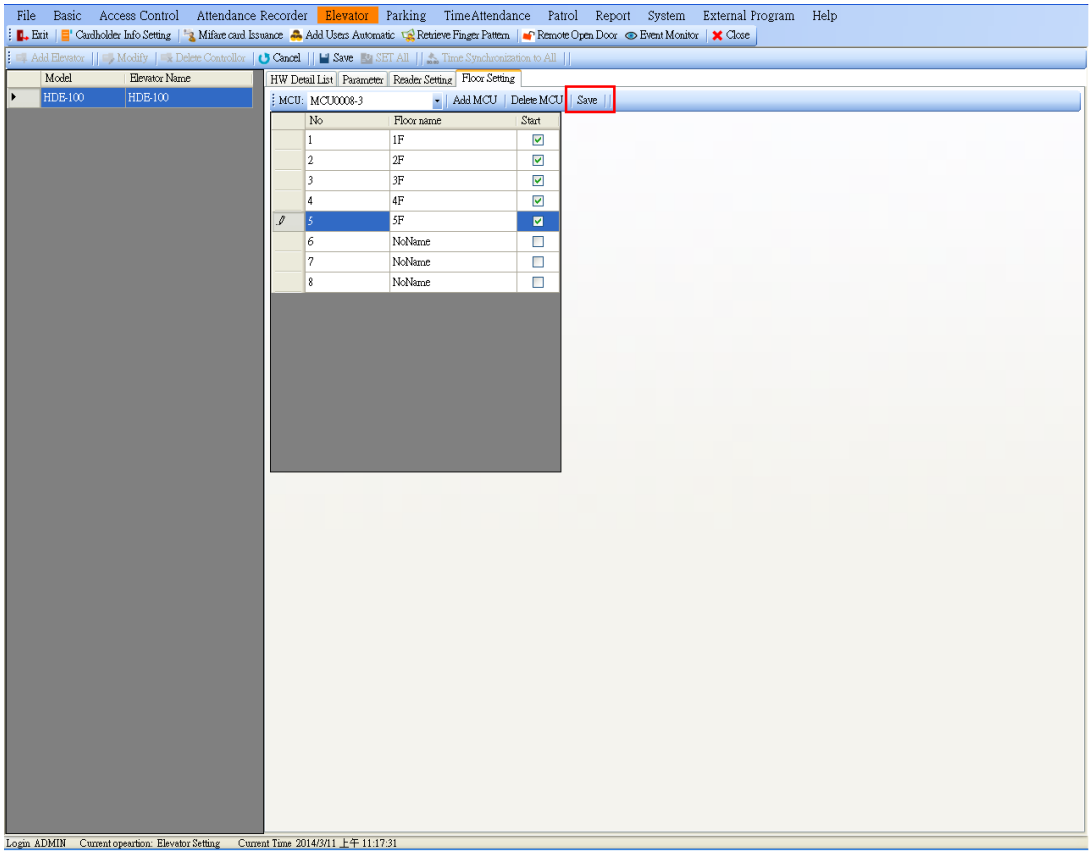


7-1-5 Floor Setting

Add or delete digital output controller (MCU-0008 or MCU-0016). And set MCU relay and follow-up functions.

Operation Steps：

1. Click「Add MCU」. (If you already select MCU, please ignore step 1 and 2.)
2. Select amount of MCU-0008 or MCU-0016, then「OK」.
3. Rename the floor name and tick the box to start MCU relay. (Press right mouse-key to select all box to mark all or clear all to unmark the selections).
4. Click「Save」to save the settings.



7-2 Elevator Time Schedule Setting (HDE-100)

7-2-1 Time Schedule Setting

Set time zone and time schedule. Definable 128 sets of time zone and schedule. User can design different group for flexible access control. Click「Modify」to start the setting.

Time Zone Setting：

1. Click「Modify」of time zone setting.
2. Input time (format: HHMM). Ex.: Time start from 0000 and 2359 for time end.
3. Click「Save」to save the setting. To delete data, please click「Delete」.

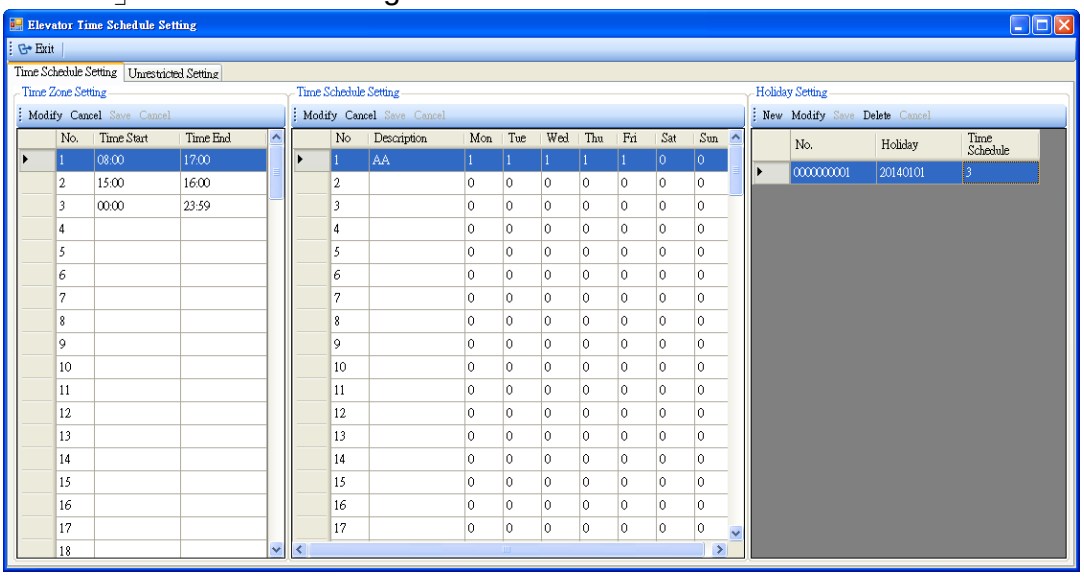
Time Schedule Setting：

1. Click「Modify」of time schedule setting.
2. Input time schedule name first. To set the time zone for each day, enter the time zone number (row number) with the desired time setting.
3. Click「Save」to save the setting. To delete the record, please click「Delete」.

Holiday Setting：

Holiday is meaning National holiday or specific date.

1. Click「New」.
2. Input holiday date. Format is YYYYMMDD. Then set time zone by specifying the time zone number(row number) with the desired time setting.
3. Click「Save」to save the settings.



7-2-2 Unrestricted Setting

Under unrestricted time, there's no need to swipe card and cardholders are granted free access to all floor levels.

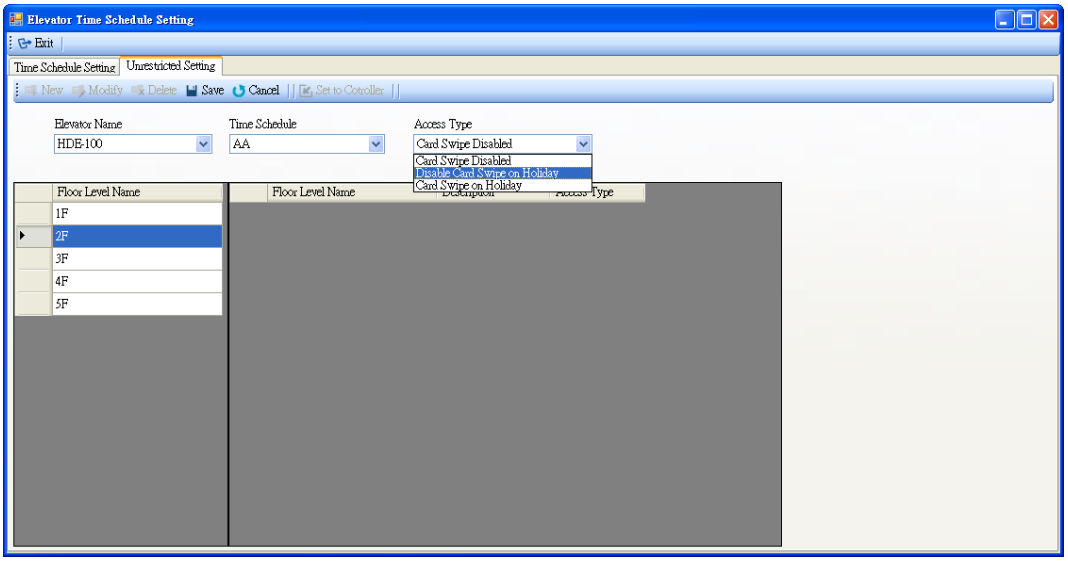
Operation Steps：

1. Click「New」.
2. Select elevator, time schedule and access type.
3. Select floor level name. User can press Shift or Ctrl key and mouse for multiple selection.
4. Click「Save」and「Set to controller」. Before setting to controller, time zone, time schedule and holiday setting must be downloading to controller beforehand.

Access Type description：

- Card Swipe Disabled：The system will grant or deny access based on the time schedule. Top priority is unrestricted time schedule and ignores holiday settings.
- Disable Card Swipe on Holiday：The system will grant or deny access based on the time schedule. But disable card swipe on holiday.
- Card Swipe on Holiday：The system will grant or deny access based on the time schedule. But on holiday, the access authorization based on holiday settings.

Note：HDE-100 only support 63 sets of unrestricted times. The system has been locked and only supports serial no. 1-63 of time schedule.



7-3 Elevator Cardholder Auth. Setting (HDE-100)

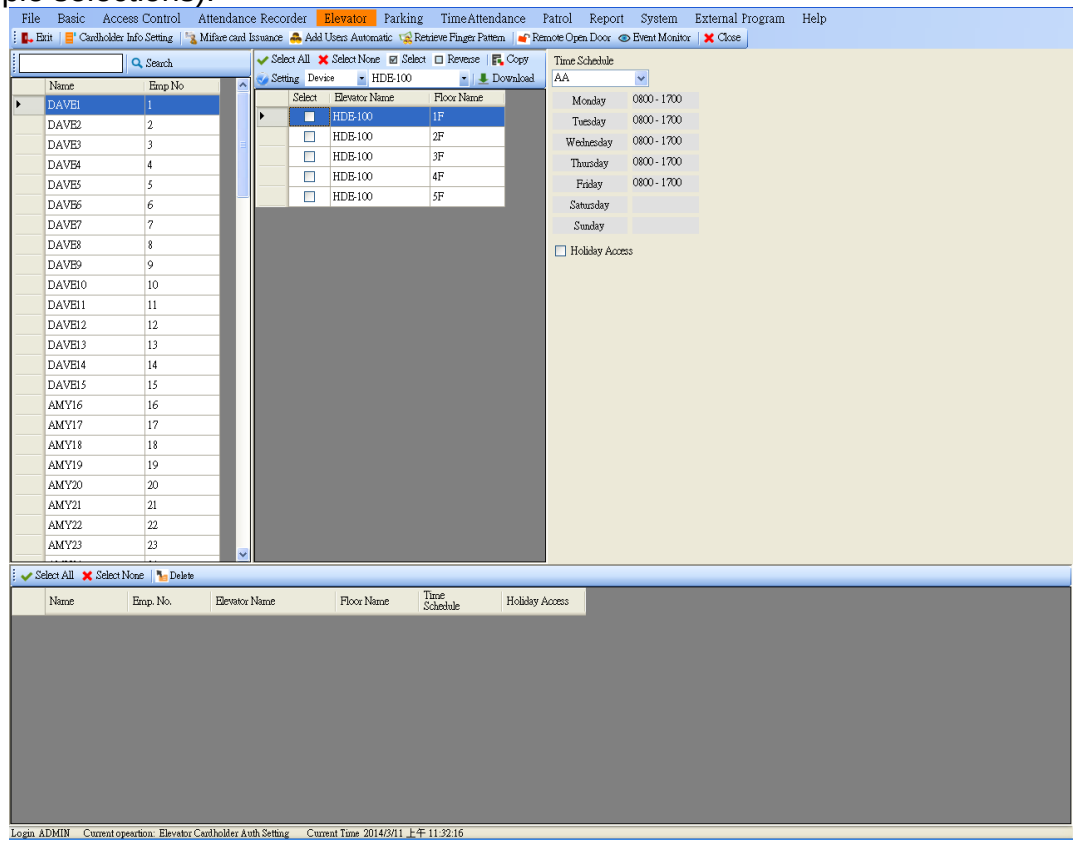
It defines cardholders' authorization and downloads to HDE-100. An elevator provides a time schedule, when change time schedule to one of floor, the previous settings will be covered by new time schedule.

7-3-1 Add Elevator Authorization

Set cardholder's authorization

Operation Steps：

1. Select a cardholder or quickly search by cardholder name.
2. Select the elevator to access.
3. Tick the box to select the access floors. Tick the box to select all floors or clear all to unmark the selections.
4. Select time schedule.
5. Holiday Access：When this function is activated, the access priority is holiday settings.
6. Click「Setting」and the cardholder with the assigned floor will be shown on the workspace below. Click「Delete」to delete the authorization. (User can press Shift and Ctrl key for multiple selections).

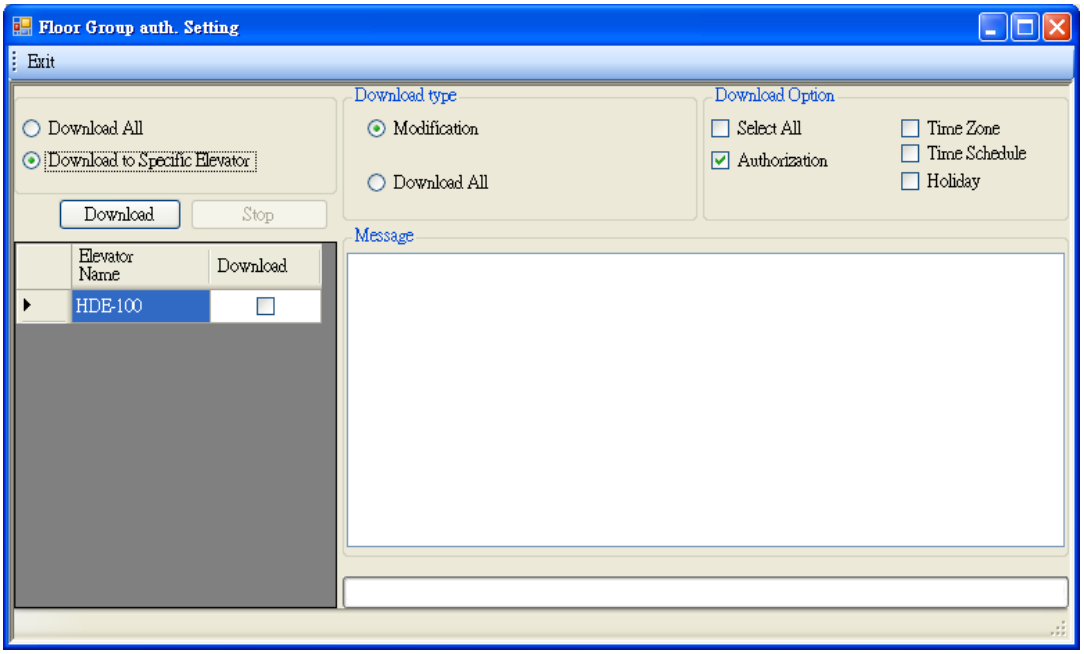


7. Click [Copy] may copy authorization to other cardholders.

- Ignore cardholder who already has authorization: Once the cardholders have authorizations already, system will ignore the cardholder.
- Keep original and add extra authorizations: System will check if it is no repeat from current authorizations, system will add extra authorizations to cardholders.
- Fully Overwrite: Delete all authorizations and using copy file.

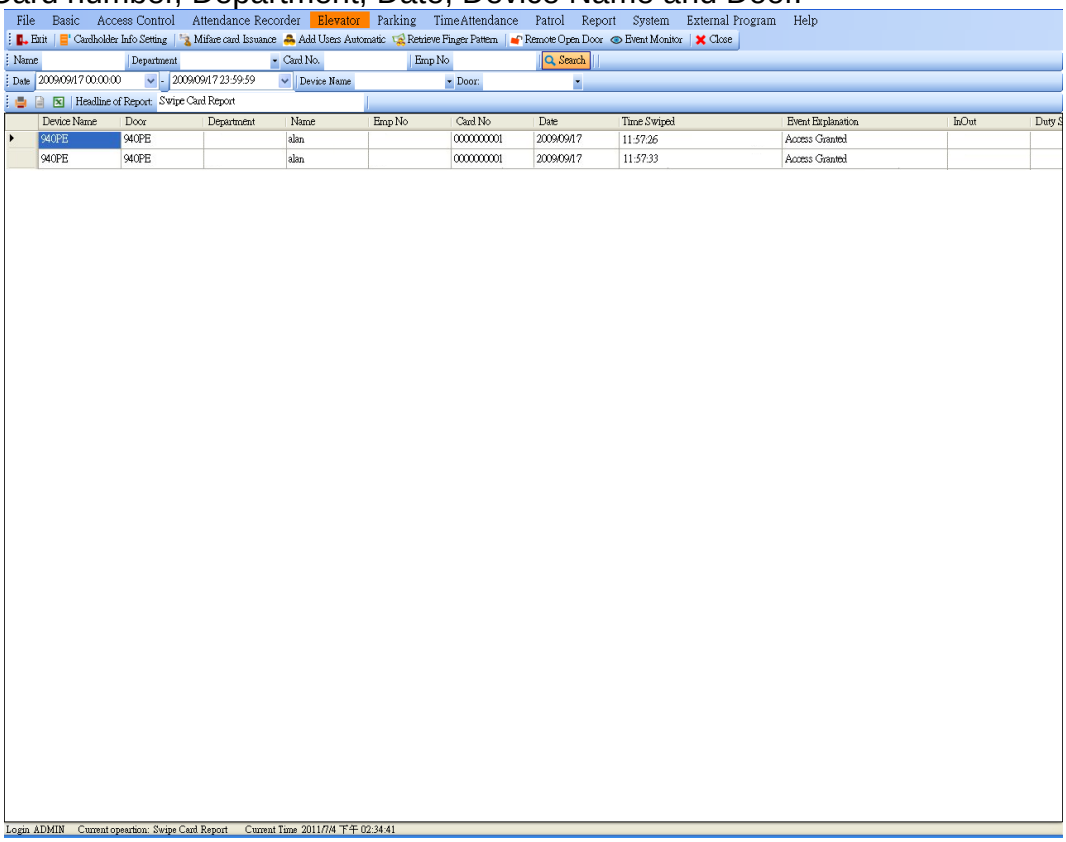
8. Go to Floor Group auth. Setting workspace.

- Download： Select download all or download to specific elevator. Tick the check boxes to select elevator with which you want to download.
- Download Type：Download modified data only or download all data.
- Download Option：User can select download all options or select single option.
- Click「Download」 to download the data。



7-4 Swipe card report (FOR All Elevator Control)

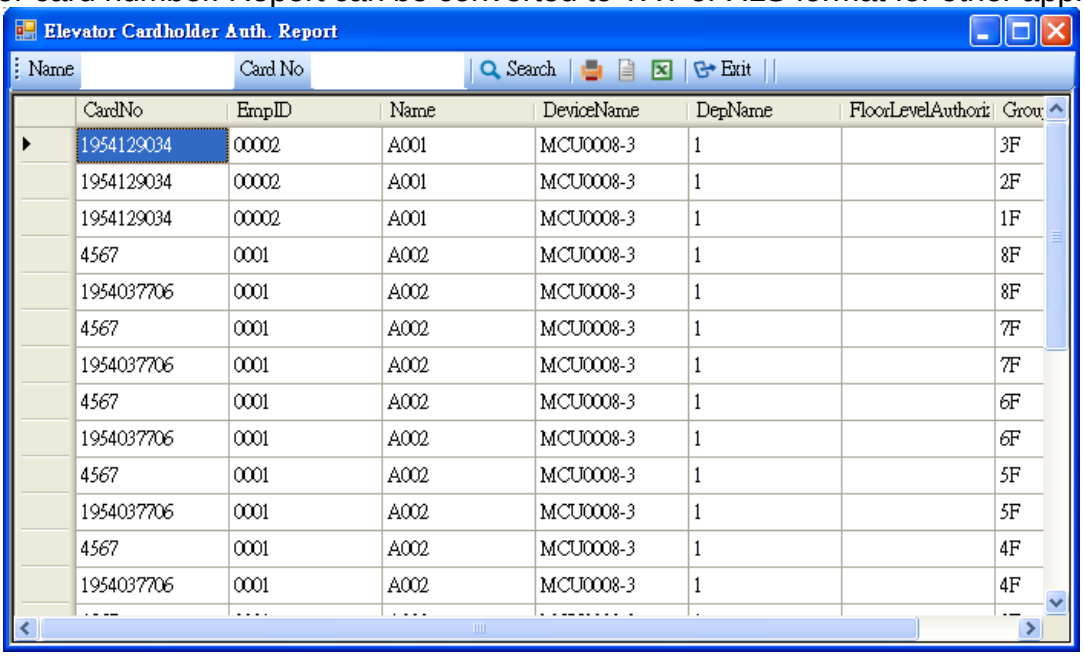
Lists swiped card records. Specify the range of swipe card records according to Cardholder name, Card number, Department, Date, Device Name and Door.



Note: All elevator control panels may use this report.

7-5 Elevator Cardholder Auth. Report (HDE-100)

Report will show all cardholder authorizations of every elevator. Quickly search by card-holder or card number. Report can be converted to TXT or XLS format for other application.



CardNo	EmpID	Name	DeviceName	DepName	FloorLevelAuthori:	Grou
1954129034	00002	A001	MCU0008-3	1		3F
1954129034	00002	A001	MCU0008-3	1		2F
1954129034	00002	A001	MCU0008-3	1		1F
4567	0001	A002	MCU0008-3	1		8F
1954037706	0001	A002	MCU0008-3	1		8F
4567	0001	A002	MCU0008-3	1		7F
1954037706	0001	A002	MCU0008-3	1		7F
4567	0001	A002	MCU0008-3	1		6F
1954037706	0001	A002	MCU0008-3	1		6F
4567	0001	A002	MCU0008-3	1		5F
1954037706	0001	A002	MCU0008-3	1		5F
4567	0001	A002	MCU0008-3	1		4F
1954037706	0001	A002	MCU0008-3	1		4F

Note：For swipe card report and event records of HDE-100, please go to Report→ Hardware Event report or Swiped card Report.

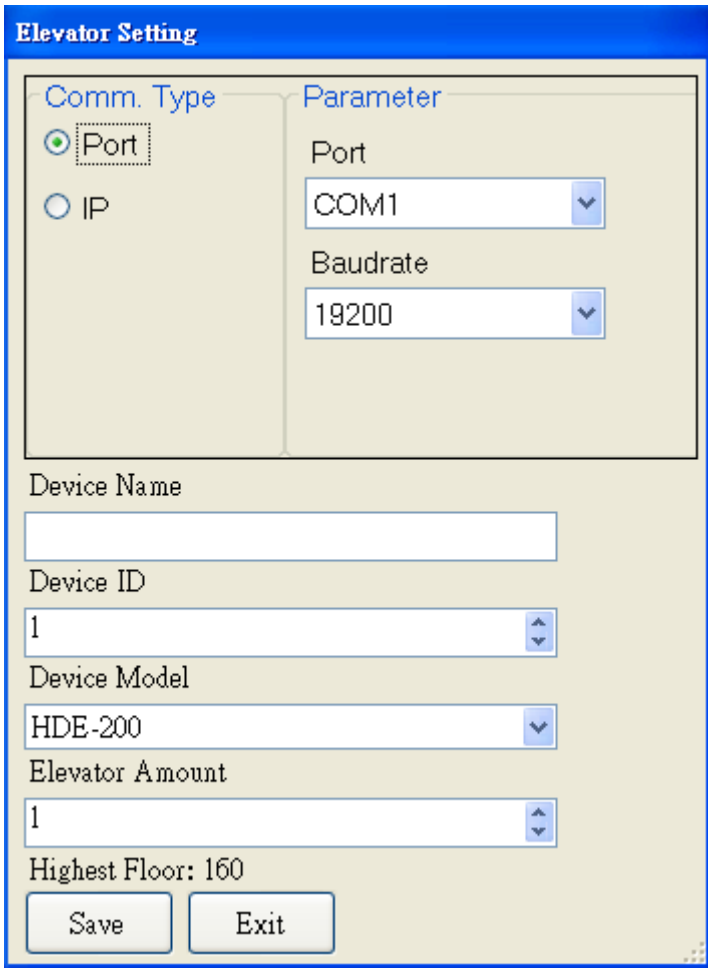
7-6 Elevator Setting (HDE-200/200N)

Include add new controller, set communication, modify parameter, reader and floor setting.

7-6-1 Add HDE-200/200N

Operation Steps:

1. Click [New], and then select communication type.
2. Input device name, device ID, device model and elevator amount. The elevator amount can not modify after saving. Please input correct number from beginning. To modify the amount, user need re-add a new hardware. The elevator amounts may affect MCU amounts, kindly refer to hardware manual for more configuration information.
3. Click [Save] to save the settings.



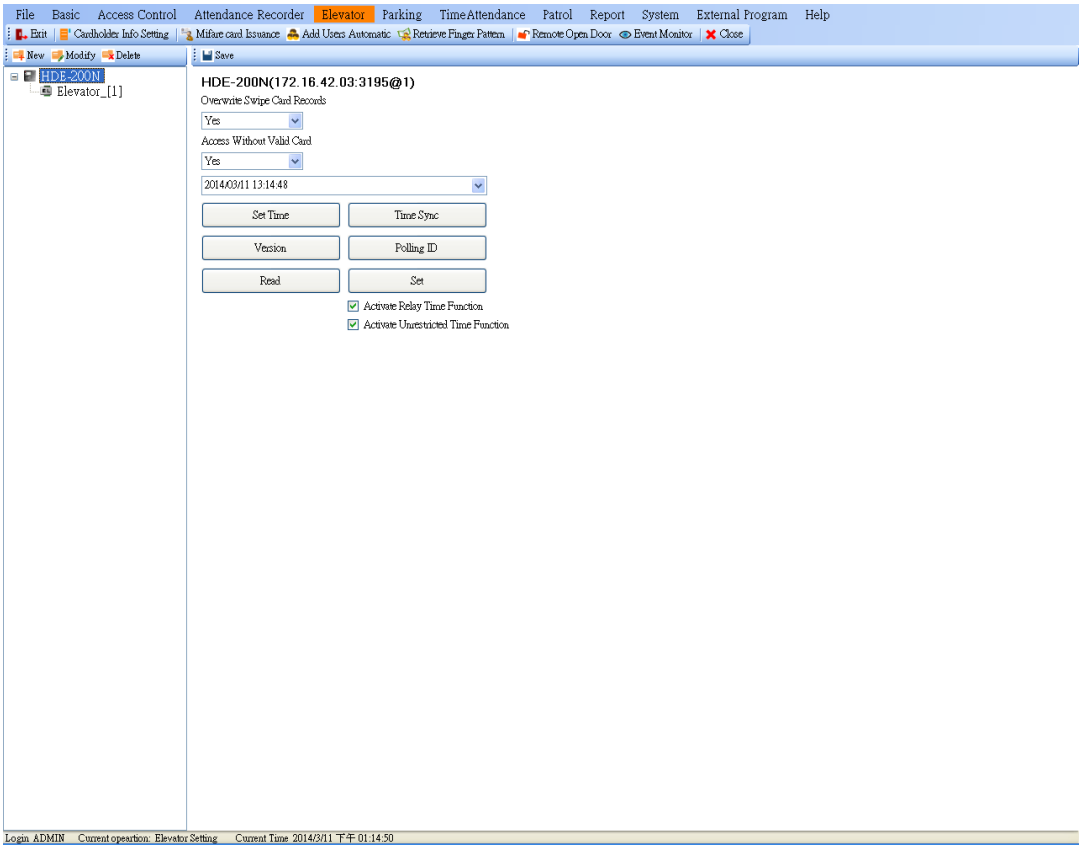
Select the controller, modify parameter

Operation Steps:

1. Select the controller on the left side.
2. Click [Read] to read back current parameter.
3. Modify the parameter.
4. Click [Save] and [Set] to saving and download the settings.

Parameter contents:

- Overwrite Swipe Card Records: User may select overwrite or do not store records or when stored records reach 90%, system will activate a warning alarm to remind user to retrieve records. Default is YES which signifies when stored records full, system may overwrite store records.
- Access without Valid Card: Allow user access by any card. Default is YES which is mainly for engineer maintenance or install testing before download cardholder authorization.
- Set Time: Input date and time by user.
- Time Sync: Synchronize time by PC
- Version: System will show hardware version.
- Polling ID: HDE-200 will save current slave device ID in the memory and polling with them continued.
- Activate Relay Time Function: Default is tick the box. When tick function, system may allow users to read and set MCU relay time.
- Active Unrestricted Time Function: Default is tick the box. When tick function, system may allow users to read and set unrestricted time schedule.


File
Basic
Access Control
Attendance Recorder
Elevator
Parking
TimeAttendance
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare card Issuance
Add Users Automatic
Retrieve Finger Pattern
Remote Open Door
Event Monitor
Close
New
Modify
Delete
Save
HDE-200N
Elevator_[1]
HDE-200N(172.16.42.03:3195@1)
Overwrite Swipe Card Records
Yes
Access Without Valid Card
Yes
2014/03/11 13:14:48
Set Time
Time Sync
Version
Polling ID
Read
Set
Activate Relay Time Function
Activate Unrestricted Time Function
Login ADMIN
Current operation: Elevator Setting
Current Time 2014/3/11 下午 01:14:50

7-6-2 Modify Parameter

There are two worksheets, Include Elevator Parameter and Reader Parameter.

Elevator Parameter

Operation Steps:

1. Select the elevator on the left side and Input elevator name.
2. Select open or close slave reader.
3. Set relay time. It is MCU relay action time. Default is 10 seconds.
4. Flooring setting:
   - Tick MCU check box to activate MCU. A MCU controls 16 floors.
   - Select the floor which user wants to modify and click [Modify].
   - Tick box of Start, which signifies to enable this floor. And user may define floor name, set access type and time schedule of this floor.

Elevator Q'ty (Reader Q'ty)	Control Floor Amount / per elevator	Max. MCU Q'ty	MCU ID
1	160	10	1,2,3,4,5,6,7,8,9,10
2	112	7	2,3,4,5,6,7,8
		7	9,10,11,12,13,14,15
3	64	4	3,4,5,6
		4	7,8,9,10
		4	11,12,13,14
4	48	3	4,5,6
		3	7,8,9
		3	10,11,12
		3	13,14,15
5	32	2	5,6
		2	7,8
		2	9,10
		2	11,12
		2	13,14
6	16	1	6

		1	7
		1	8
		1	9
		1	10
		1	11
7	16	1	7
		1	8
		1	9
		1	10
		1	11
		1	12
		1	13
8	16	1	8
		1	9
		1	10
		1	11
		1	12
		1	13
		1	14
		1	15

5. Click [Modify] may modify the settings.

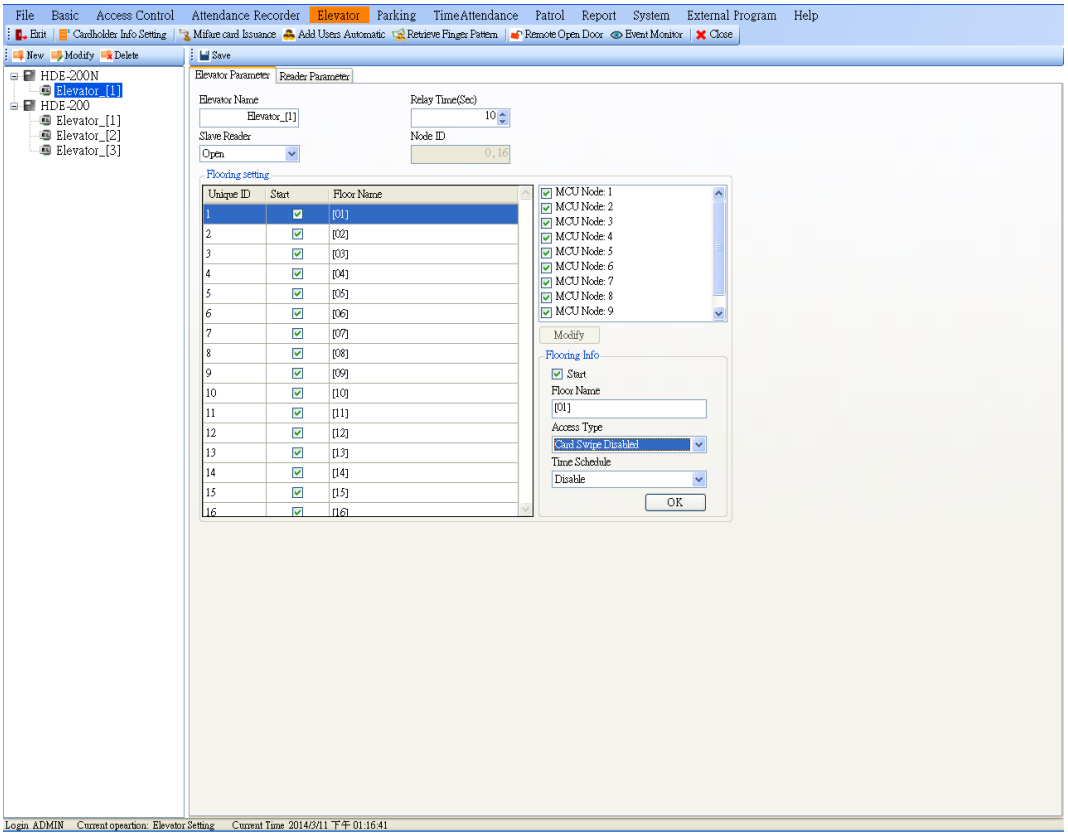
   Floor Name: User-define the name

   Access type:

   - Card Swipe Disabled: For a specific time schedule, floors may access without card swiped. Do not refer to Holiday schedule.
   - Disable Card Swipe on Holiday: Weekday may follow time schedule settings and close all floors in holiday.
   - Card swipe on Holiday: Weekday may follow time schedule settings. And follow holiday schedule in the holiday
   - Freedom: All floors may grant access without swiping a card

   Time Schedule: Select unrestricted schedule or 63sets time schedule. (Refer to Elevator Time Schedule Settings)

6. Click [Save] to saving the settings.
7. Go back to device main page and click [Set] to download the setting to controller.

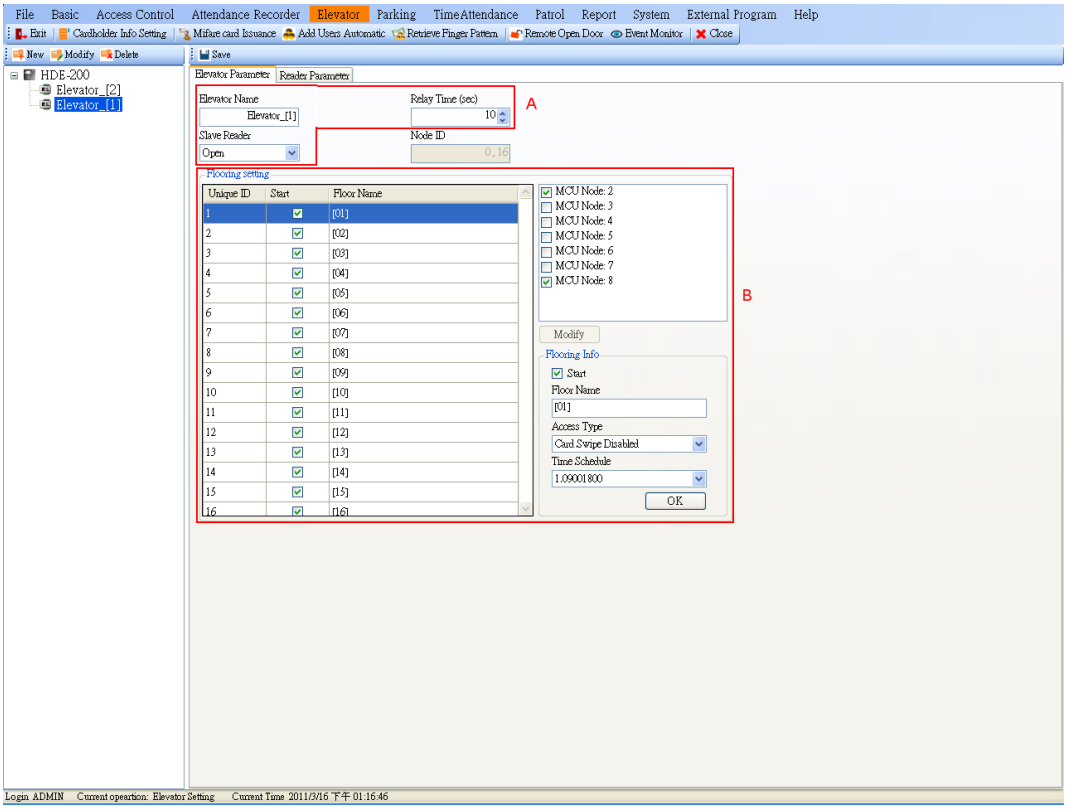


Note: There are two parameters in Elevator parameter worksheet, “Activate Relay Time Function” and ‘Active Unrestricted Time Function”.

Follow photo shows A part and B part:

➔ When tick “Activate Relay Time Function”, once click button [Polling ID], system may set and read A part parameter.

➔ When tick “Active Unrestricted Time Function”, once click button [Polling ID], system may set and read B part parameter.


File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
New Modify Delete
Save
HDE-200
Elevator_[2]
Elevator_[1]
Elevator Parameter
Reader Parameter
Elevator Name
Elevator_[1]
Relay Time (sec)
10
A
Slave Reader
Open
Node ID
0,16
Flooring setting
Unique ID
Start
Floor Name
MCU Node: 2
MCU Node: 3
MCU Node: 4
MCU Node: 5
MCU Node: 6
MCU Node: 7
MCU Node: 8
B
Modify
Flooring Info
Start
Floor Name
[01]
Access Type
Card Swipe Disabled
Time Schedule
1.09001800
OK
Login ADMIN Current operation: Elevator Setting Current Time 2011/3/16 下午 01:16:46

Reader Parameter

Operation Steps:

1. Select the elevator on the left side.
2. Modify the parameter directly.
3. Click [Save] and [Set] to saving and download the settings to reader.

Parameter contents:

- Re-swipe Card Check Time (0~255 sec): This is the time for checking the card repeatedly. As the time is set, when swiping the card more than once within a preset time, system will deny the access and make a beep sound. Default is 0 second.
- Backlight Mode: Open or close LCD backlight function.
- Keypad with Backlight: Open or close keypad backlight function.
- Keypad: Enable or disable keypad function.
- Function Key: Enable or disable function keys.
- Card Response Action: Enable or disable reading card function.
- Keypad Tone: Open or close keypad tone.

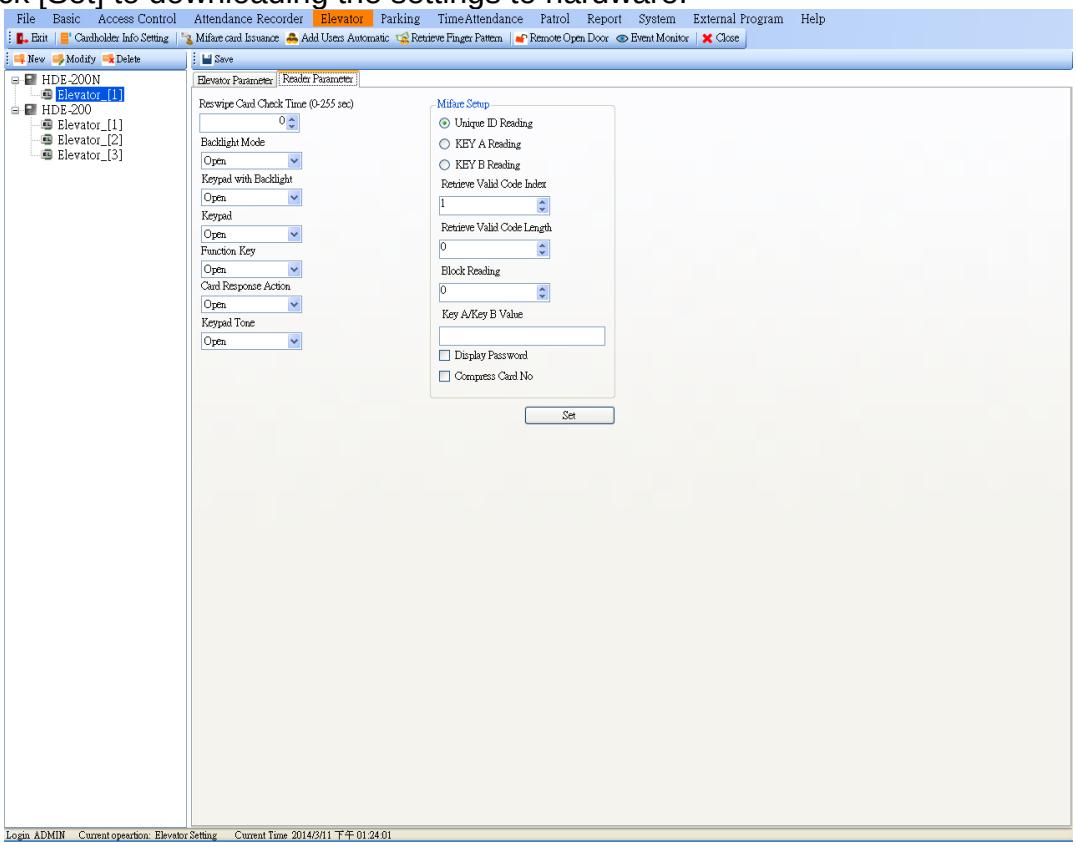
Mifare Setup: Allow the user to set the reading unique ID or block of slave reader.

Operation Steps:

Please modify follow parameter base on Mifare card information.

1. Unique ID Reading: Allow user read serial number only. When select this parameter, please ignore follow settings.
2. Key A Reading: Login by Key A value.
3. Key B Reading: Login by Key B value.
4. Retrieve valid code index: The index digit of retrieve valid card number.
5. Retrieve valid code length: how many digits you want to retrieve of valid card number. This parameter works hand in hand with “Retrieve valid code index”.
6. Block Reading: Assigned read allotted block.
7. Key A/Key B Value: The value of allotted block
8. Display Password: When tick the box, Key A/Key B ‘s password will display on plain code
9. Compress Card No: Default is uncompressing card number. If need compress card number, please tick the check box.

10. Click [Set] to downloading the settings to hardware.



7-7 Elevator Time Schedule Setting (HDE-200/200N)

Set time zone and time schedule. Definable 254 sets of time zone and schedule. User can design different group for flexible access control. Click [Modify] to start the setting.

Time Zone Setting:

1. Click [Modify] of time zone setting.
2. Input time (format: HHMM). Ex.: Time start from 0000 and 2359 for time end.
3. Click [Save] to save the setting. To delete data, please click [Cancel].

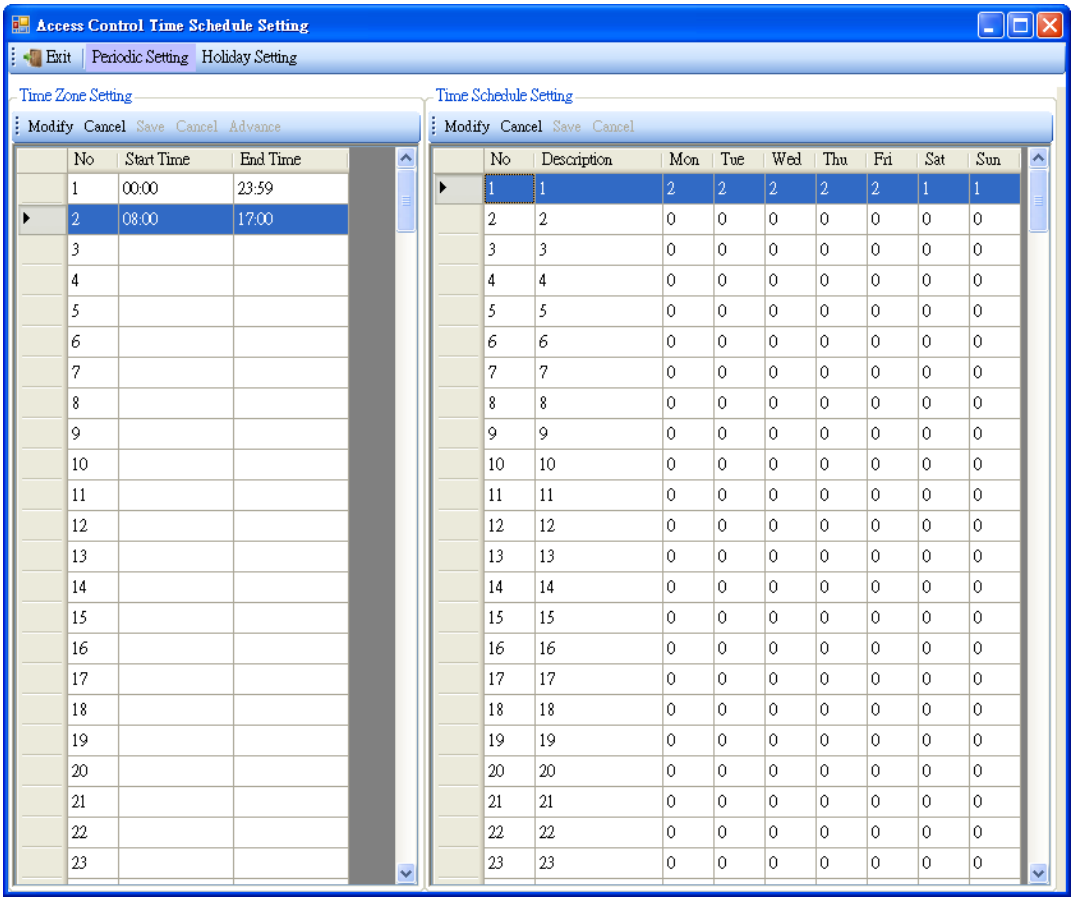
Time Schedule Setting:

1. Click [Modify] of time schedule setting.
2. Input time schedule name first. To set the time zone for each day, enter the time zone number (row number) with the desired time setting.
3. Click [Save] to save the setting. To delete the record, please click [Cancel].

Holiday Setting:

Holiday is meaning National holiday or specific date.

1. Click [New].
2. Input holiday date. Format is YYYYMMDD. Then set time zone by specifying the time zone number (row number) with the desired time setting.
3. Click [Save] to save the settings.


Access Control Time Schedule Setting
Exit
Periodic Setting
Holiday Setting
Time Zone Setting
Modify
Cancel
Save
Cancel
Advance
No
Start Time
End Time
1 00:00 23:59
2 08:00 17:00
Time Schedule Setting
Modify
Cancel
Save
Cancel
No
Description
Mon
Tue
Wed
Thu
Fri
Sat
Sun
1 1 2 2 2 2 2 1 1
2 2 0 0 0 0 0 0 0
3 3 0 0 0 0 0 0 0
4 4 0 0 0 0 0 0 0
5 5 0 0 0 0 0 0 0
6 6 0 0 0 0 0 0 0
7 7 0 0 0 0 0 0 0
8 8 0 0 0 0 0 0 0
9 9 0 0 0 0 0 0 0
10 10 0 0 0 0 0 0 0
11 11 0 0 0 0 0 0 0
12 12 0 0 0 0 0 0 0
13 13 0 0 0 0 0 0 0
14 14 0 0 0 0 0 0 0
15 15 0 0 0 0 0 0 0
16 16 0 0 0 0 0 0 0
17 17 0 0 0 0 0 0 0
18 18 0 0 0 0 0 0 0
19 19 0 0 0 0 0 0 0
20 20 0 0 0 0 0 0 0
21 21 0 0 0 0 0 0 0
22 22 0 0 0 0 0 0 0
23 23 0 0 0 0 0 0 0

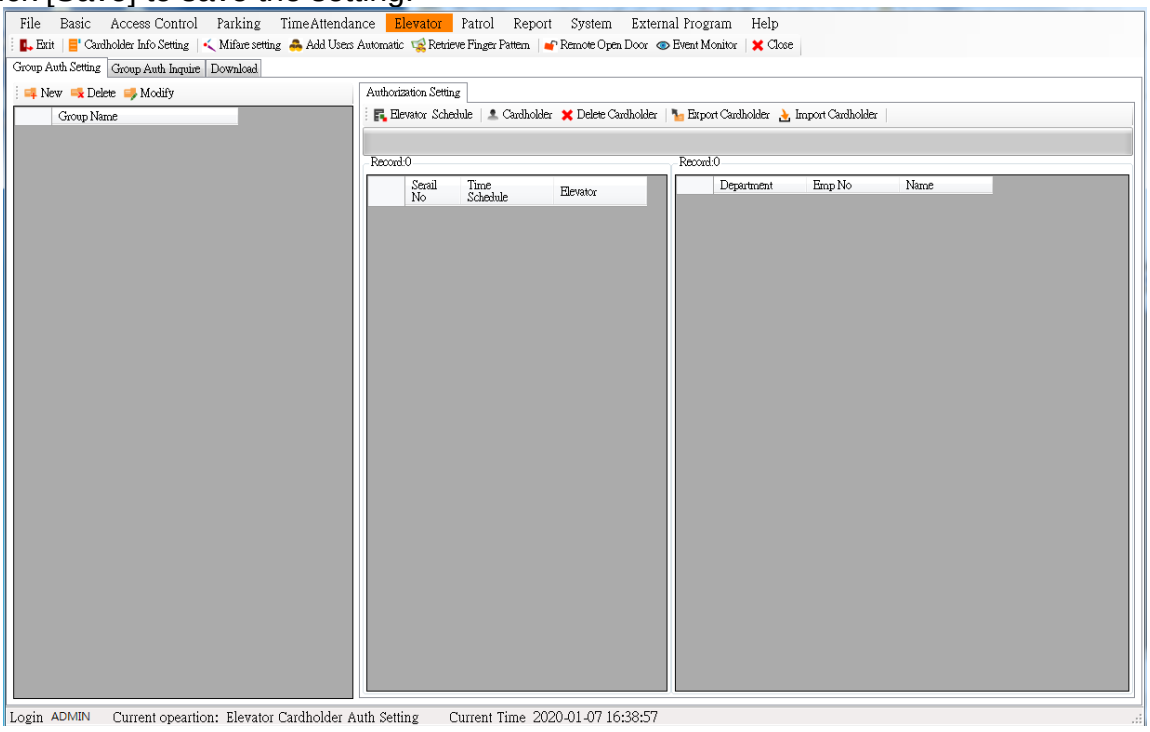
7-8 Elevator Cardholder Auth Setting (HDE-200/200N)

It defines cardholders' authorization and downloads to elevator control panel. An elevator provides a time schedule to a cardholder. Once modify time zone, system may base on new time zone and modify current time schedule simultaneously.

7-8-1 Group Authorization Setting

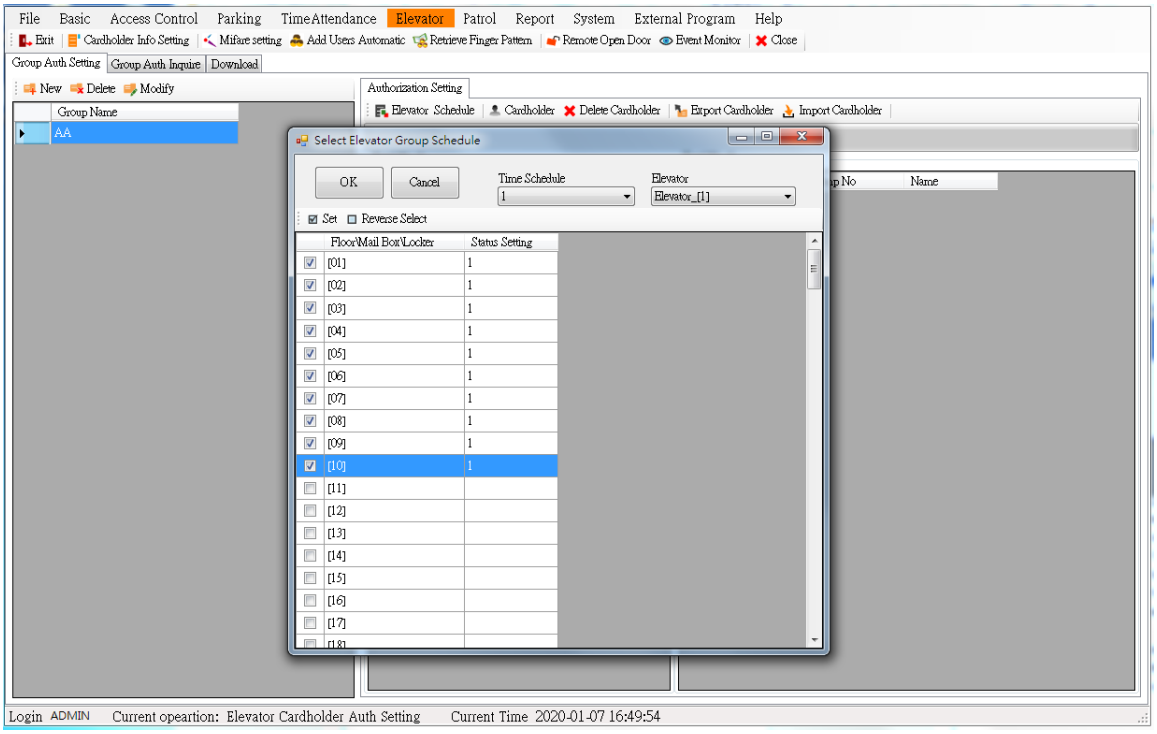
Operation Steps:

1. Click [New].
2. Input group name.
3. Click [Save] to save the setting.



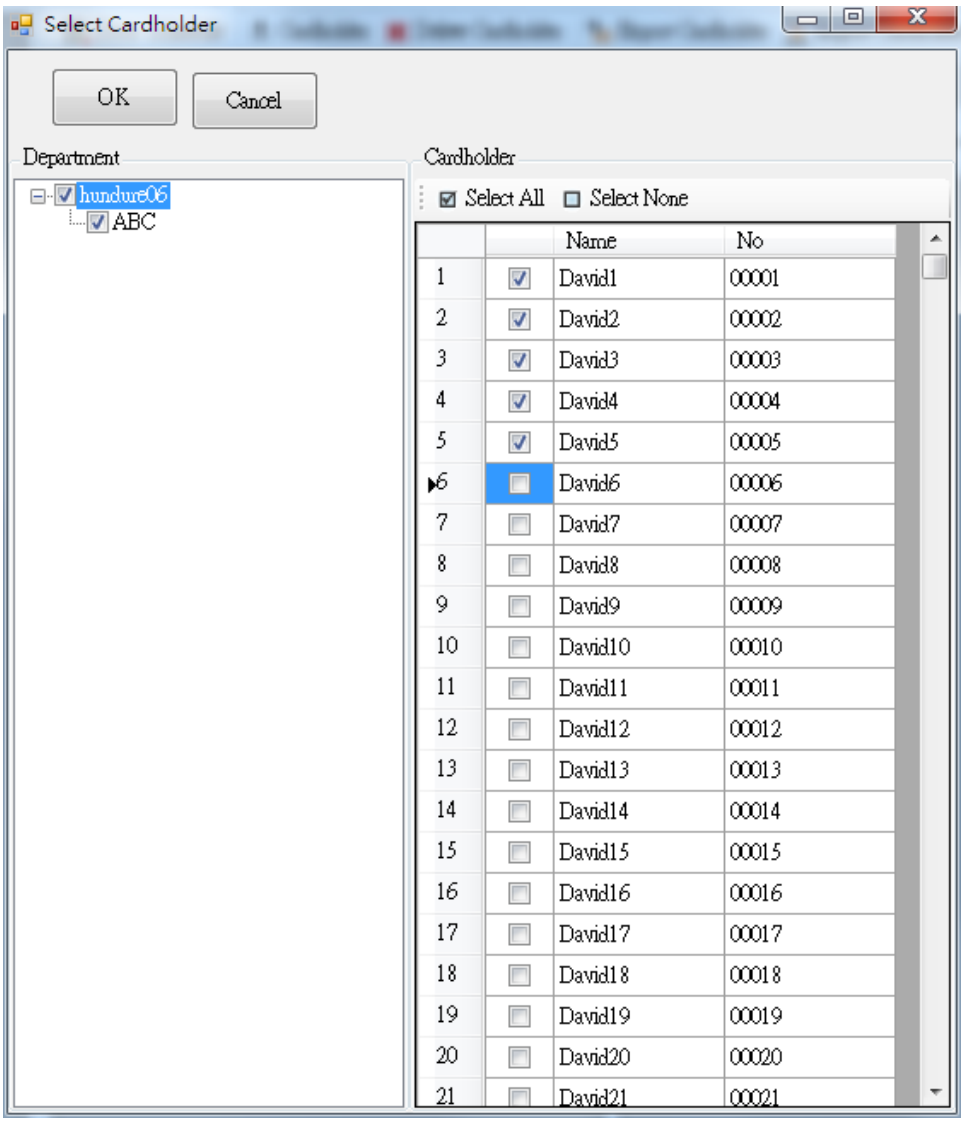
4. Go to [Elevator Schedule]. Select time schedule and elevator, and then all floors belongs this elevator will appearance. Then select the floor which you want to authorize and click [Set], the check box will be ticked.

   Hint: Speedy Selection: Press CTRL key and select floors by mouse or press SHIFT key and select doors successively by mouse.
5. Click [OK].



6. Go to [Cardholder]. Tick the department then you will read cardholder list which belong the department. And then you can start to tick the cardholders.
7. Click [OK] to save the setting. If want to delete the cardholder authorization, please select the cardholder and click [Delete Cardholder].

After setting completed, click [Export Cardholder], system will produce a txt file base on the setting. The file only includes cardholder name and authority by department. This file may import to system and use for other group authorization

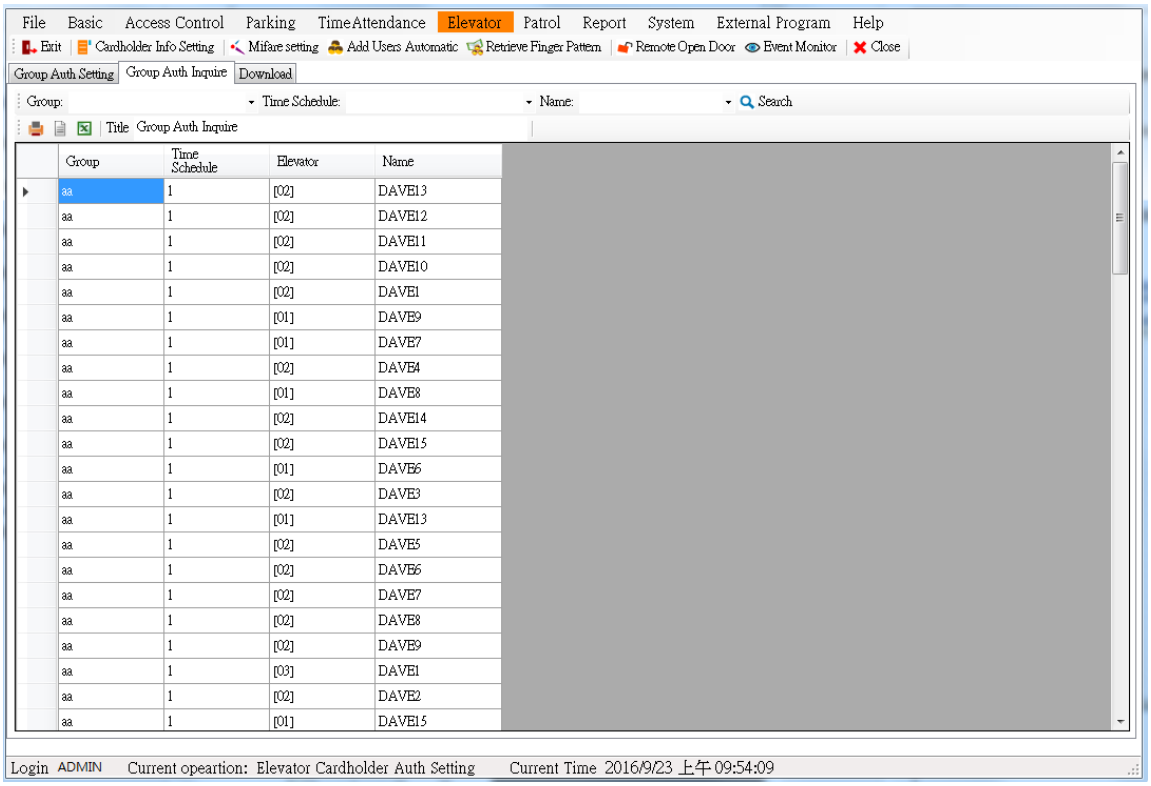

Select Cardholder
OK
Cancel
Department
hundure06
ABC
Cardholder
Select All
Select None
Name
No
1 David1 00001
2 David2 00002
3 David3 00003
4 David4 00004
5 David5 00005
6 David6 00006
7 David7 00007
8 David8 00008
9 David9 00009
10 David10 00010
11 David11 00011
12 David12 00012
13 David13 00013
14 David14 00014
15 David15 00015
16 David16 00016
17 David17 00017
18 David18 00018
19 David19 00019
20 David20 00020
21 David21 00021

7-8-2 Group Authorization Inquire

Enquire user's access elevator authorization. Specify the range according to Group, door and User name. Report provides print function and can be converted to TXT or XLS format for other application.

Operation Steps:

1. Check dynamic drop-down menu, you will read group, time schedule and name.
2. Click [Search].

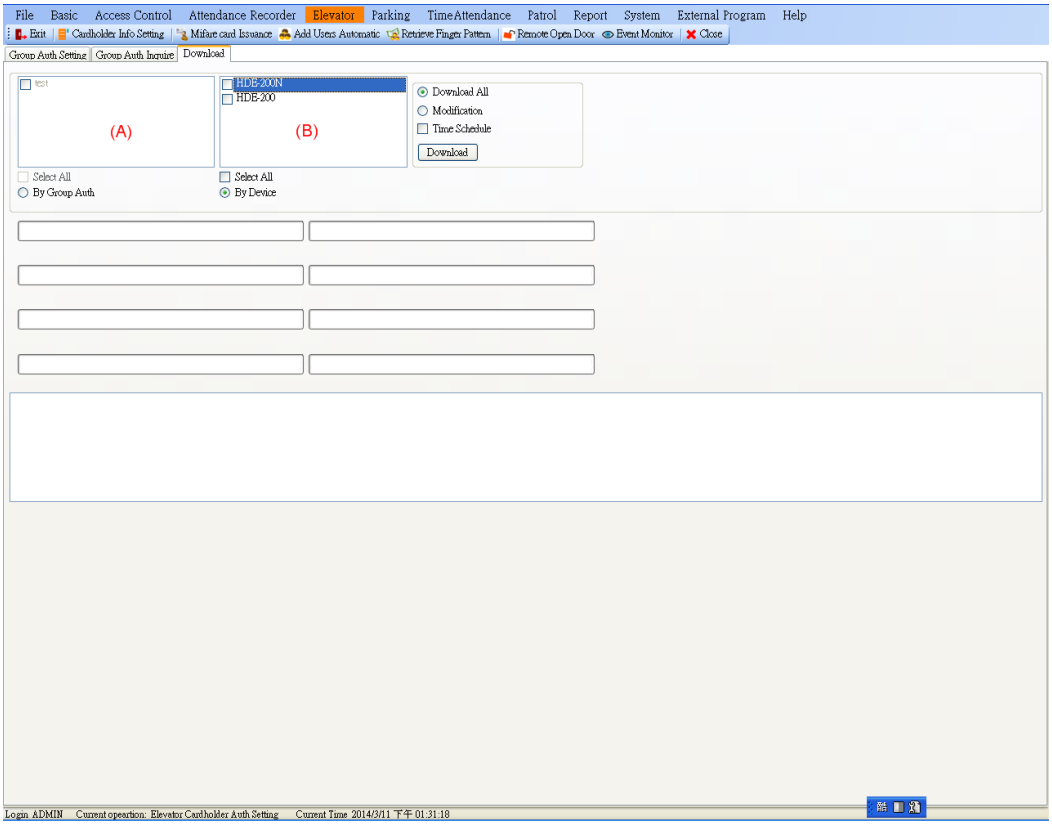


7-8-3 Download

It is mainly to download users' authorizations to device.

Operation Steps:

1. There are two download methods. Tick "By Group Auth" or "By Device".
2. Select the Groups or devices which you want to download.
3. Download Type:
   - Download All: Download all users' information and authorizations.
   - Modification: Download modified users' information and authorizations.
   - Time schedule: Include time zone, time schedule and holiday schedule. Tick the check box when first downloading or time zones and schedules are modified.
4. Click [Download] to start the download.



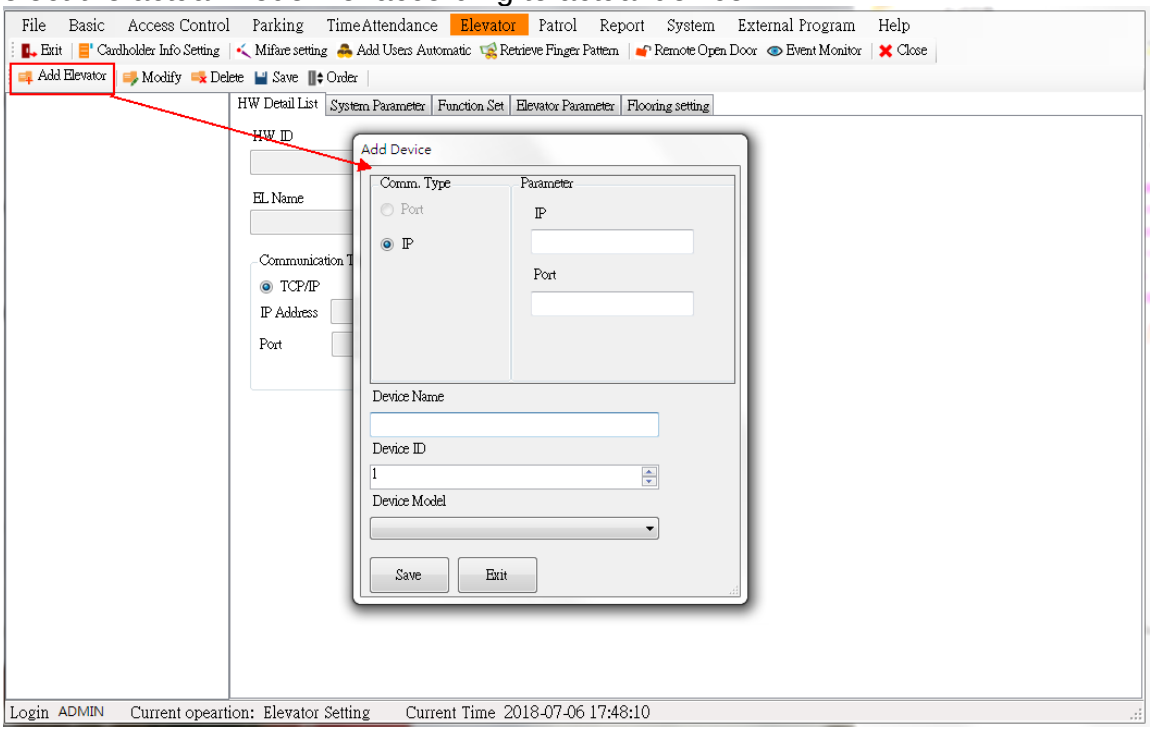
7-9 Hardware Settings (HDE-120/HAC-101)

This chapter includes Add Controllers, Communication Settings, Parameter Modification, Card Reader Settings, and Floor Settings

7-9-1 Add an Elevator Controller

Operating steps to add an elevator controller and set communication parameters：

1. Click “Add Elevator” then select the Comm. Type：
2. Comm. Type：Select COM PORT or TCP/IP; If COM PORT selected, then select the COM Port the PC uses, Baud rate 19200；If TCP/IP selected, then enter IP address and Port Number
3. Enter Device Name, ID (Default 1)
4. Select the actual model no. according to actual device

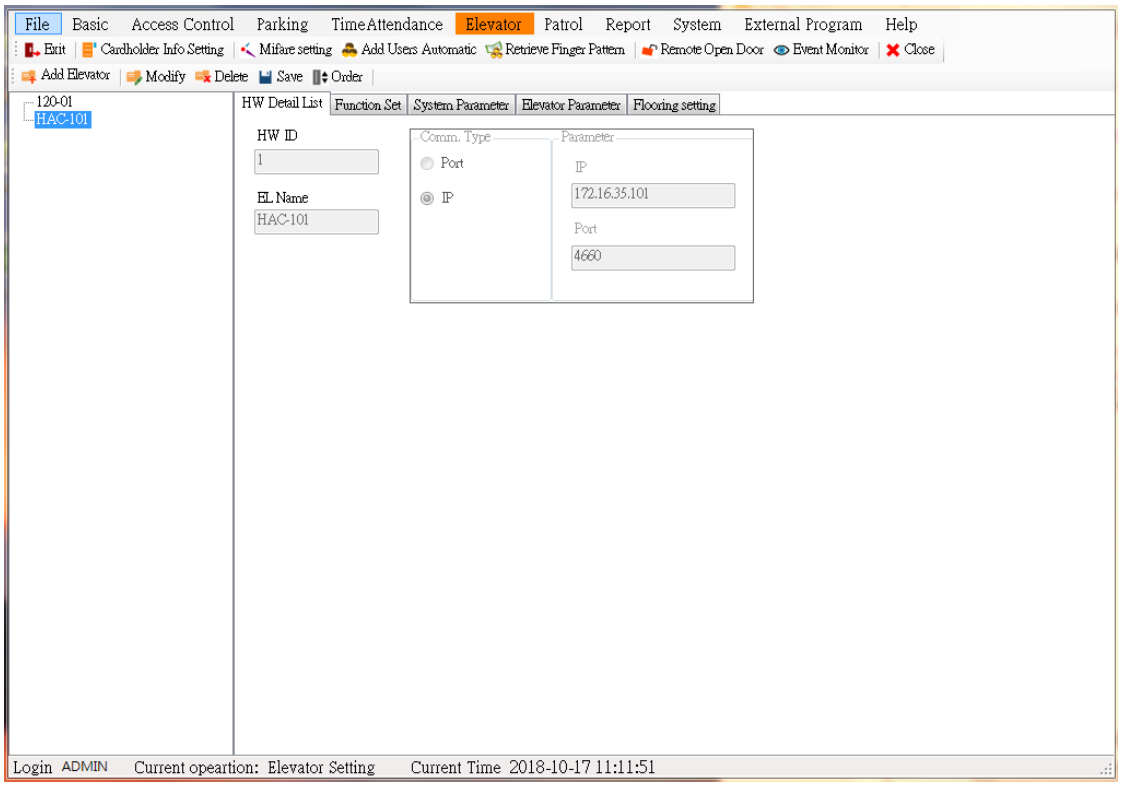


7-9-2 Communication Settings

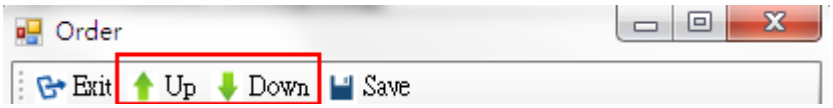
Set the communication mode between controller and PC

Operating Steps：

1. Select the controller going to be modified
2. Click “Modified”
3. Modify the communication settings, e.g.: Comm. Type、Device Name / ID …etc.
4. Click “Save”



5. If “Order” clicked, you can move up or down the controller’s sequence

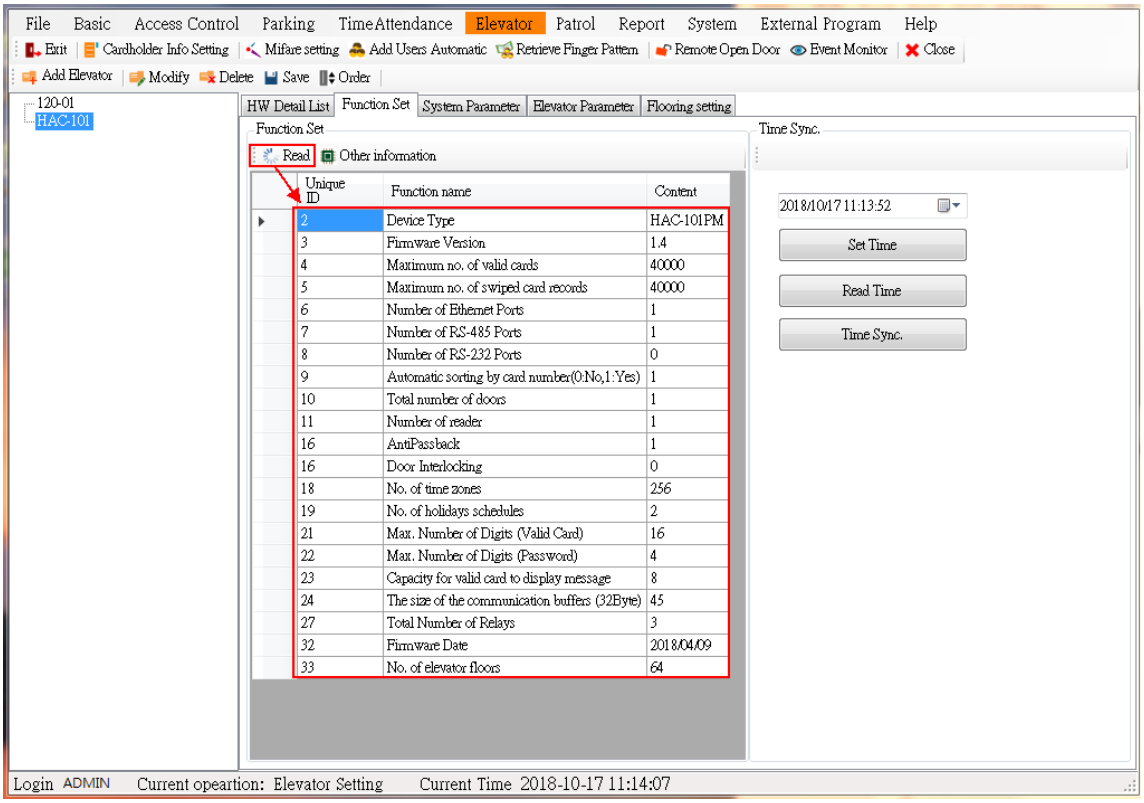


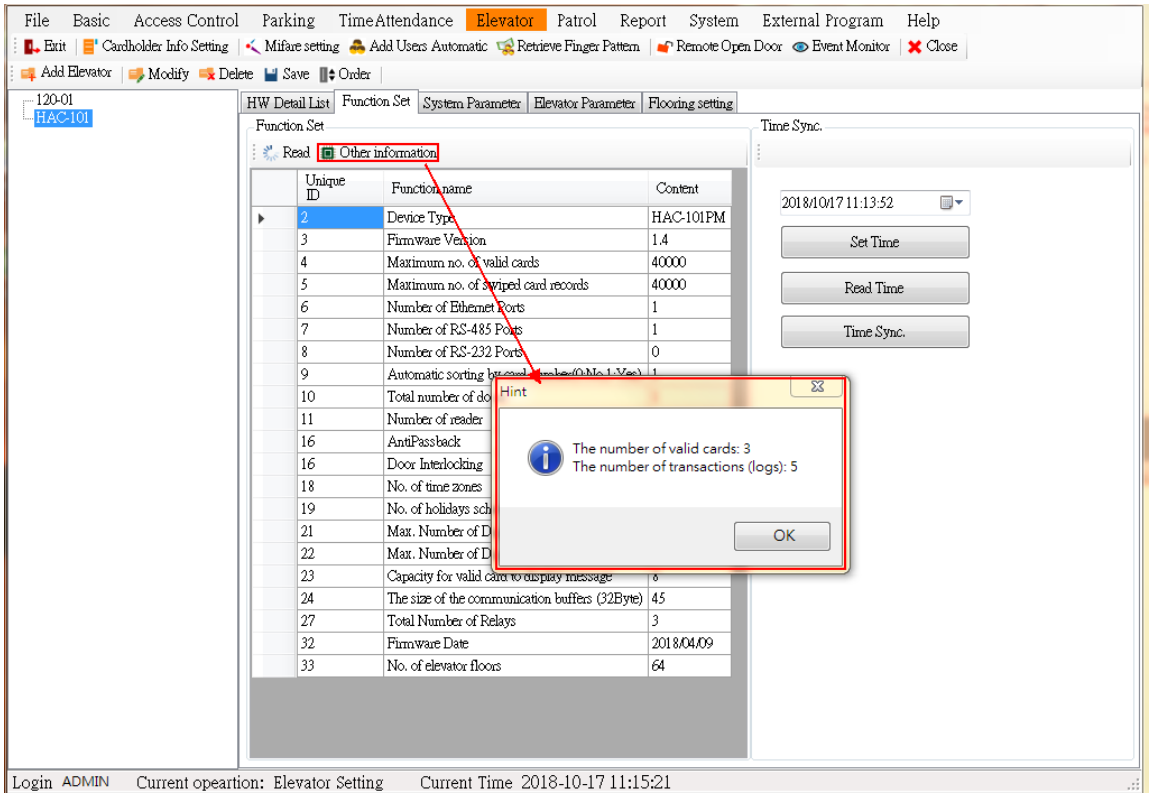
7-9-3 Function Set

To display the device's information and the time sync. function

Operating Steps：

1. Click "Read" to retrieve all information about the device's function
2. The window will show the contents of function, e.g. device model number, firmware version, number of valid cards…etc.
3. Click on Other information, system will show the number of cardholders and the number of card-swiping records.





Other Parameters：

Read Time：To retrieve the current time from the device. If retrieved successfully, it will show “read successful” and the current time year-month-day-hour-minute-second

Set Time：Perform time calibration according to entered time

Time Sync：Perform time Sync according to the PC clock

7-9-4 System Parameters(Only for HAC-101 Series)

To modify the device's parameters:
Operating Steps：

1. Select the controller to be modified
2. Click "Read" to retrieve the current setting values.
3. Modify the parameter setting values
4. Click "Set" to make the modifications take effect

Parameter Functions are as below:

【UI Parameters】

- Language Options：
  - English：LCD displays English
  - Traditional Chinese：LCD displays Traditional Chinese
  - Simplified Chinese : LCD displays Simplified Chinese

【Date Format】To select the desired date format

- YYYY/MM/DD：LCD displays date format in Year/Month/Day
- MM/DD/YYYY：LCD displays date format in Month/Day /Year
- DD/MM/YYYY：LCD displays date format in Day/Month /Year
- YYYY-MM-DD：LCD displays date format in Year/Month/Day
- MM-DD-YY：LCD displays date format in Month/Day /Year
- DD-MM-YY：LCD displays date format in Day/Month /Year

【LCD Backlight Mode】

- LCD Backlight Mode

  Auto：When swipe a card or press the keypad, the LCD backlight will be activated

  Open：LCD Backlight always stays on

  Close：LCD Backlight always stays off

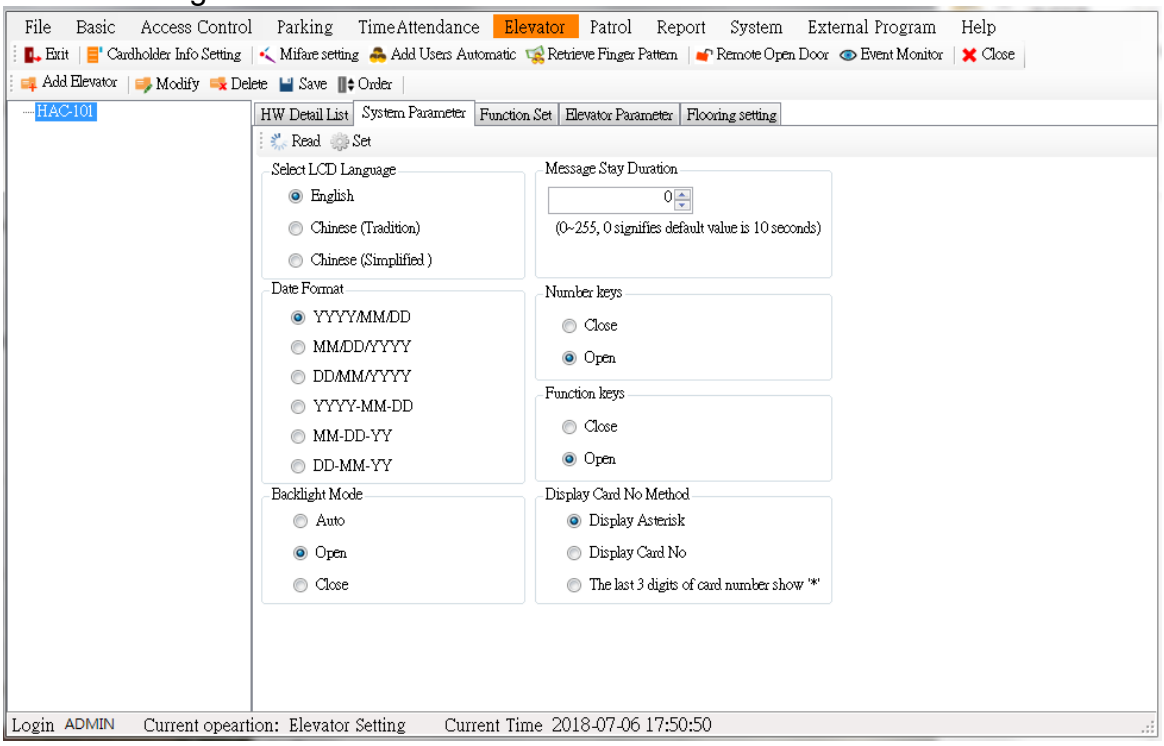
【Message Stay Duration】The amount of time that the message will stay on LCD (1~255 seconds，0 means the default value 10 seconds)

【Number Keys】Enable or Disable the function of number keys

【Function Keys】Enable or Disable the function of "function key" ("Enable" by default to make the function keys F1/F2/F3/F4 operable)

【Display Card No. Method】Select the way to display on LCD after swiping a card

- To display asterisks “*”
- To display the card number
- The last 3 digits of card numbers show “*”

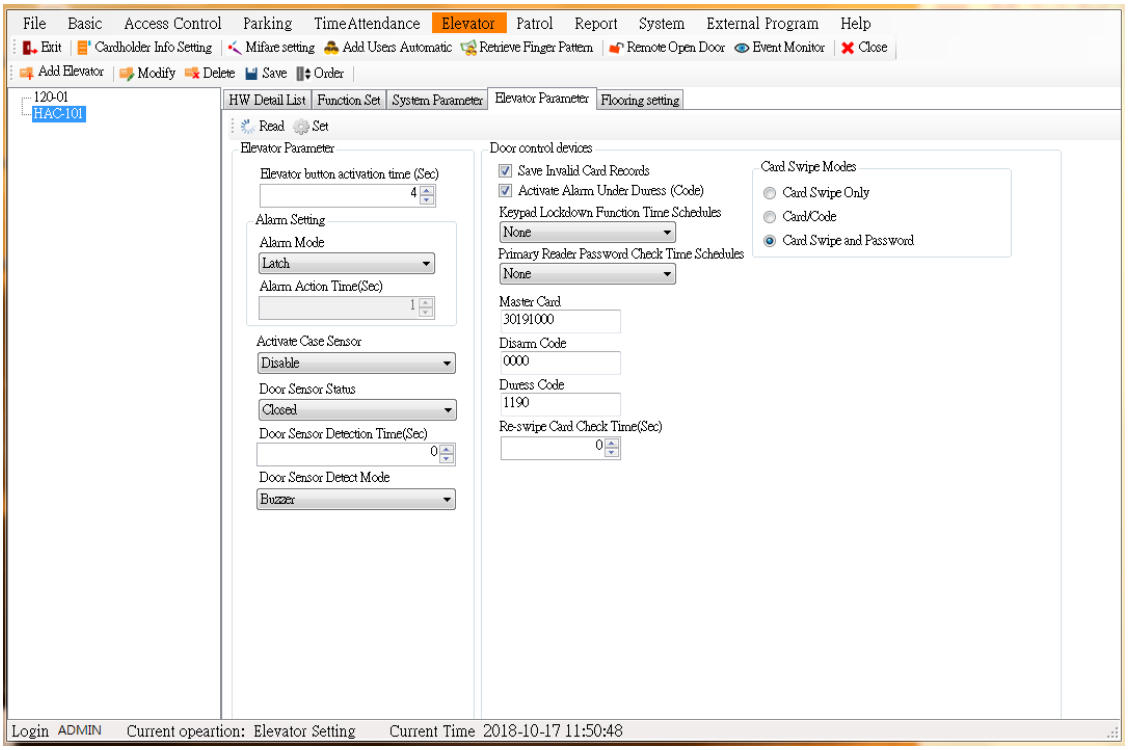


7-9-5 Elevator Parameter

Allows to modify the device's parameters for access control function

Operating Steps：

1. Select the desired controller to modify
2. Click "Read" to retrieve the current setting values
3. Modify parameter setting values
4. Click "Set" to make the modifications take effect



HAC-101 Function parameters are as below:

Elevator Parameters：

【Elevator button activation time (Sec.)】：Set the door open time of floor. The default is 4 seconds.

【Alarm Setting】

- Alarm Mode：
  - Pulse (Second) : It will return to original state after a pre-set duration
  - Toggle：If an Alarm Relay is triggered, it needs to be triggered again to restore
  - Latch：It will not return to original state until the disarm code entered
- Alarm Action Time：The amount of time for Alarm Relay to act. The default value is 1 second.

【Activate Case Sensor】To enable or disable case sensor. The default is disabled. If

enabled, the device will sound warning beeps if the device is sabotaged. To deactivate the alarm (warning beeps), the disarm code has to be entered.

【Door Sensor Status】Select the door sensor to be Short-Circuit Action, Open-Circuit action or Disabled(Default)

【Door Sensor Detection Time(sec.)】Set the amount of time to start detecting door left open. The set time starts from the end of door unlocking duration. The default value is 0 seconds. The function needs to be activated to make the door left open function take effect

【Door Sensor Detect Mode】Select the alarm (warning signal) to be issued from buzzer in reader or from an external alarm。The default is from Reader Beep，and need to work with "Door Sensor Detection Time"

e.g：Set the relay time to be 4 seconds, the alarm action time (duration) to be 5 seconds, Door sensor detection time to be 10 seconds, door sensor detect (alarm) mode to be "Alarm relay".

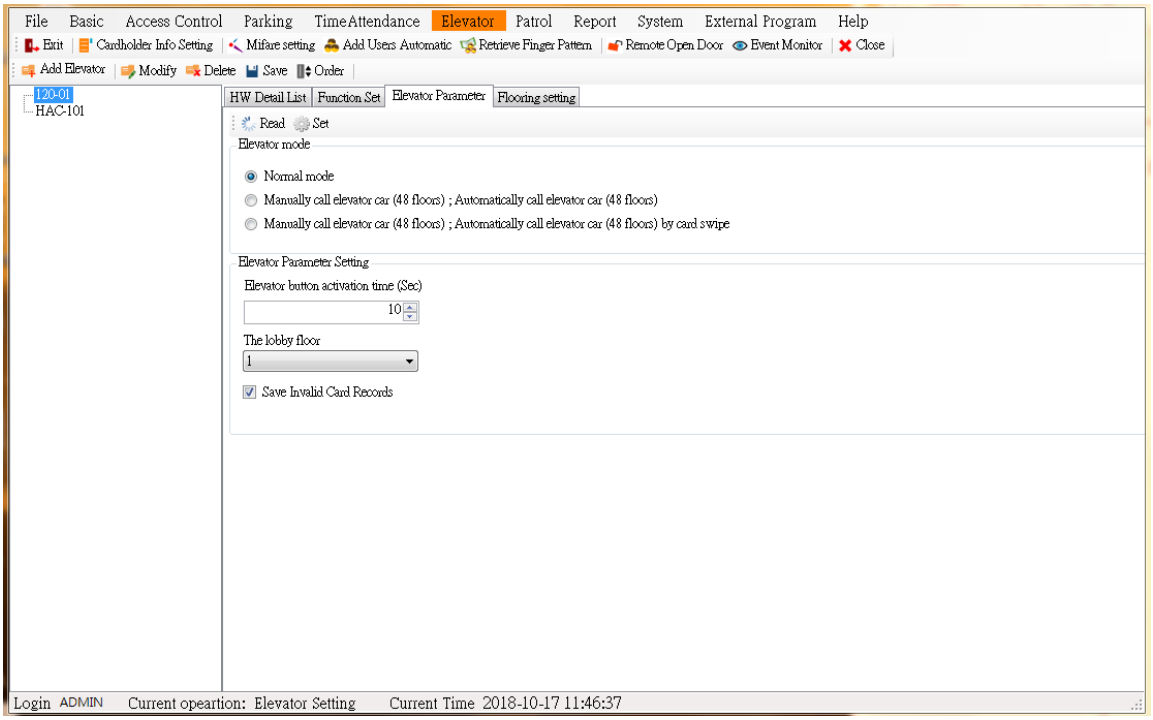
Description: When door unlocks, in a normal state, the door will relock after 4 seconds; If the door left open or the door can't be relocked with 4 seconds, the system will start counting the time and the alarm will be triggered after 10 seconds if the door is still left open. The alarm goes off for 5 seconds through an external alarm.

Door-control devices：

- Save Invalid card records ：Tick it to save invalid card records
- Activate alarm under duress：Tick it to activate alarm under duress to unlock
- Keypad lockdown function time schedules：None or 1~128 time schedules; Set a certain time schedule to lock down the keypad
- Primary Reader Password Check Time Schedules：None or 1~128 time schedules; Set the time schedules for primary reader requiring to press password
- Master Card：Master card number to enter programming mode (Default 30191000); Please refer to user manual for the programming mode
- Disarm Code：Disarm code to deactivate the alarm triggered under duress or external destruction; The default value is 0000。
- Duress Code：Press the Duress code to unlock door but also activate a (silent) alarm at the same time; The default value is 1190
- Re-swipe card check time (Sec.)：Within the preset duration, if a card is swiped twice, then the second card-swipe will be deemed void and won't be recorded but will make an error sound. The default time (duration) is 0 seconds, but the longest duration can be set 255 seconds

【Card Swipe Modes】

- Card-swipe only：Only swipe a card to unlock
- Card-swipe / Code (Key Press) : Swipe a card or press keys to unlock
- Card-swipe and p
- assword : Swipe a card and enter the password to unlock. However, if the password is not built in the cardholder's profile, swiping a card still can unlock the door.



HDE-120 Function parameters are as below:

【Normal mode】: Manually call elevator car (96 floors)

【Manually call elevator car (48 floors); Automatically call elevator car (48 floors)】:

The system provides manual or automatic call elevator functions of 48 floors (the number of floors is reduced to 48). The automatic call function needs to be used with CMR-66 to control 48 floors. When the floor level is selected from CMR-66, the elevator will arrive at the selected floor level.

【Manually call elevator car (48 floors); Automatically call elevator car (48 floors) by card swipe】: The system provides manual call car function of 48 floors or automatic call elevator by swiping card function of 48 floors (the number of floors is reduced to 48). In the automatic call by swiping card function, after swiping card, the authorized floor level can be selected according to the card authorization.

Elevator Parameter Setting：

【Elevator button activation time (Sec.)】: That is relay activation time. (the default is 10 seconds).

【The lobby floor】: Floor 1~48 can be selected.

【Save Invalid Card Records】: When the check box is ticked, the invalid card records are saved.

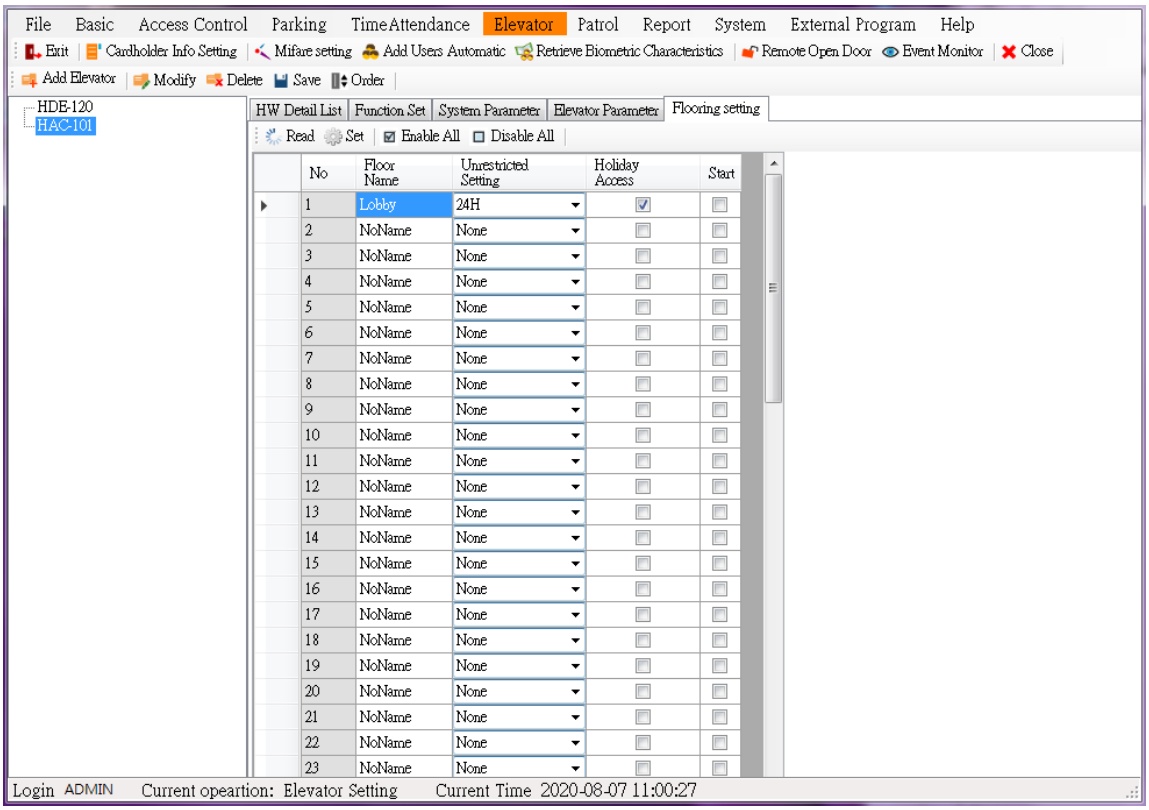
7-9-6 Floor Settings

Provides the modifications of floor settings

Operating Steps：

1. Select the elevator name first
2. Click “Read” to retrieve the current settings
3. Enter each floor’s name. Decides whether to restrict access on holidays and whether the floor is activated by ticking the checkbox.

   Note: Unrestricted Setting indicates the time period is specified and holiday control is ticked. This means the area is unrestricted in the specified time period; you can swipe your card to press the floor button. During holidays, the area is unrestricted at the time period set by Universal Holiday Setting.
4. Click “Set” to take effect



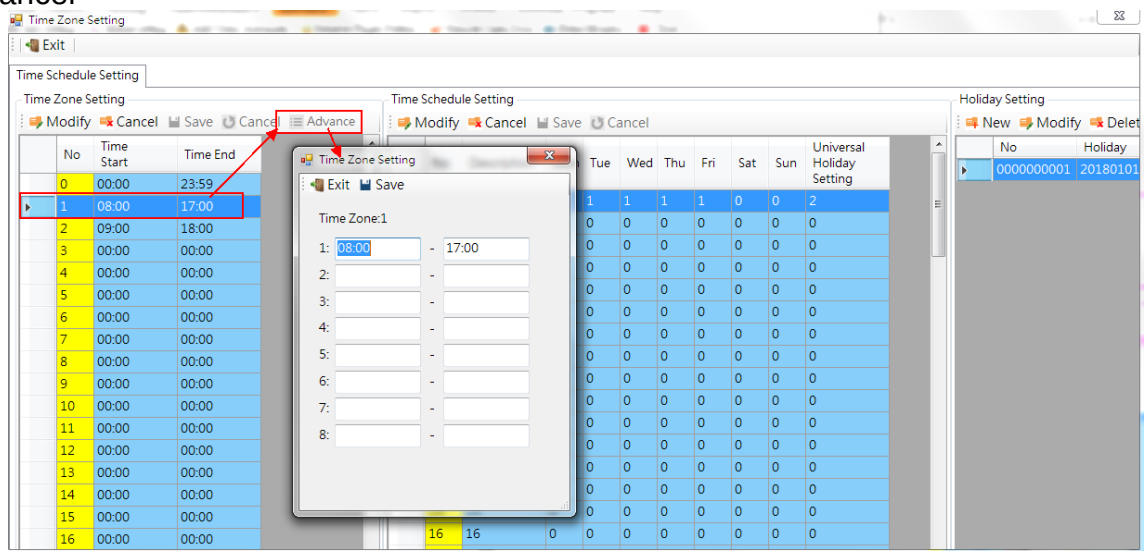
7-10 Elevator Time Schedules Settings (HDE-120/HAC-101)

7-10-1 Time Zones / Time Schedules Settings

Provides 1~128 time zones & time schedules for setting and allows free combinations. You must click “Modify” first before performing settings

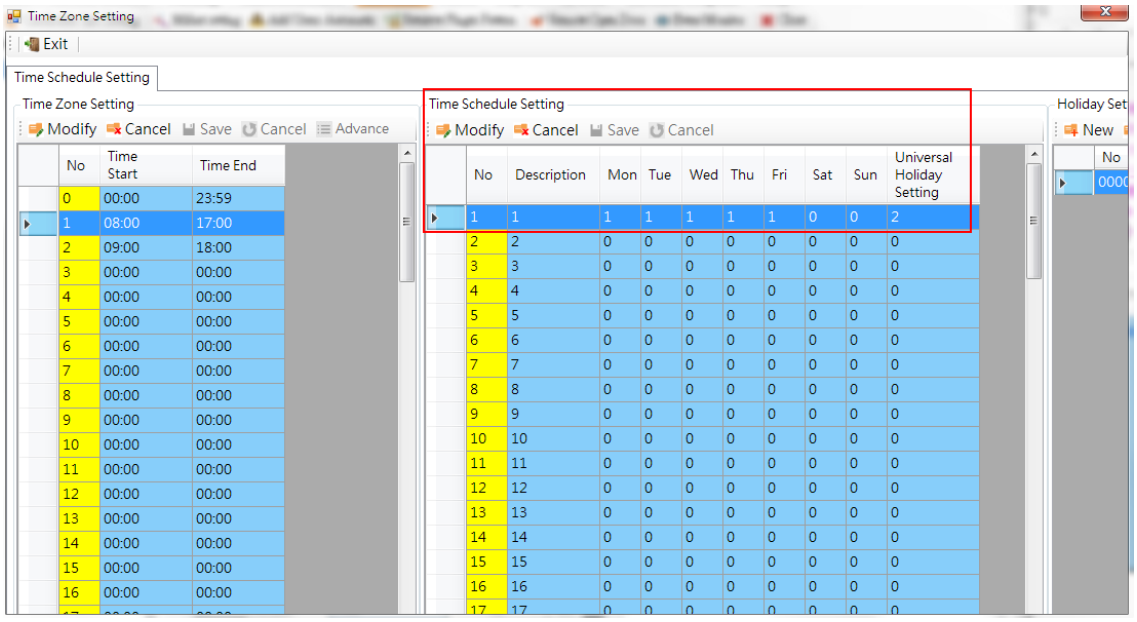
Operating steps for setting time zones：

1. In time zone setting, press “Modify”
2. In the No. 1of the time zone, enter start time 0000 and end time 2350 (Time format: Hour Minute)
3. If the time is not continuous, please click “Advanced”. One day can be divided into 8 sections at most.
4. Click “Save”; if you would like to clear the settings to start over again, you can click “Cancel”



Operating steps for setting time schedules：

1. In time schedule setting, please click “Modify”
2. Enter the time schedule name / description in the field, e.g.: 24-hour control. Fill out “0” from Mon. ~ Sun. The number “0” filled out here corresponds to the number “0” in time zone list
3. “Universal-type device holiday setting”：Enter the holiday time schedules for universal-type device in this field for the control basis on holidays.
4. Click “Save” ; If you would like to clear the settings to start over again, you can click “Cancel”

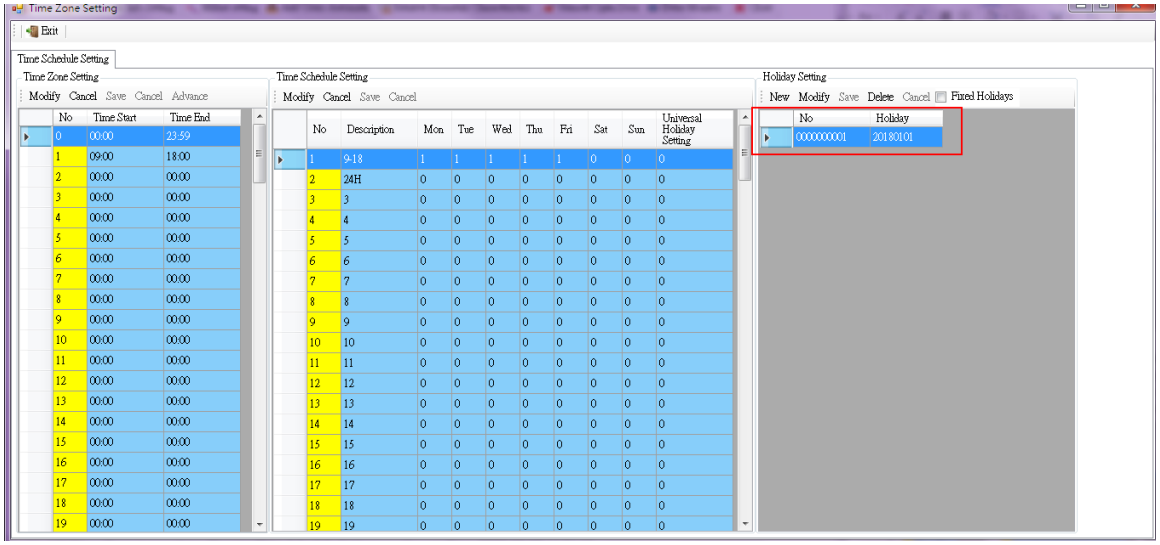


7-10-2 Holiday Setting

The holiday setting function is used to set national holidays or specific holidays

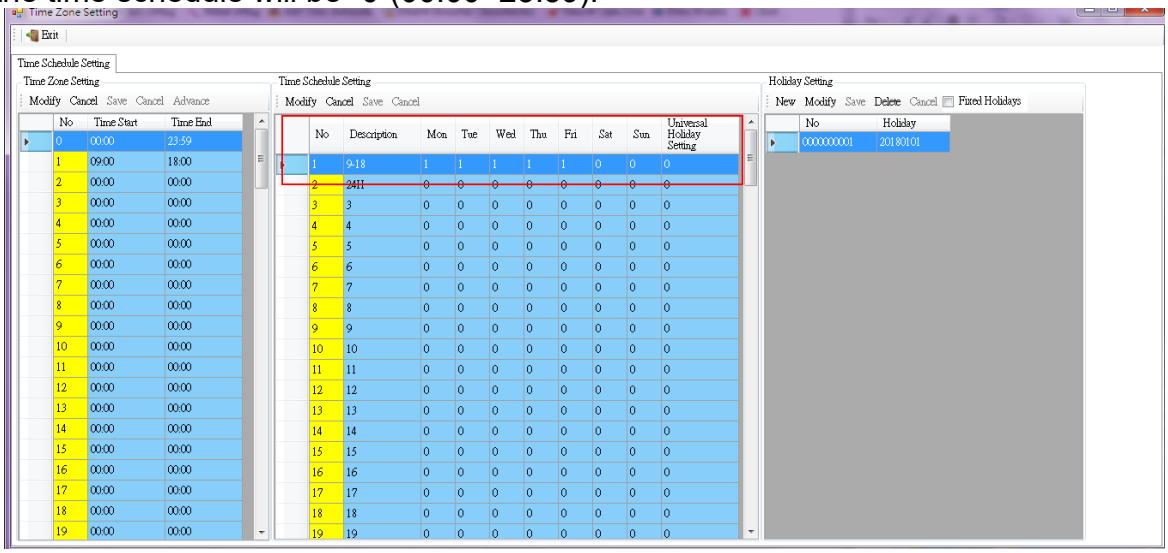
Operating Steps：

1. Click “New” to add an holiday
2. Enter the holiday date. Date format : YearMonthDay. e.g.: 20180101。
3. Click “Save”

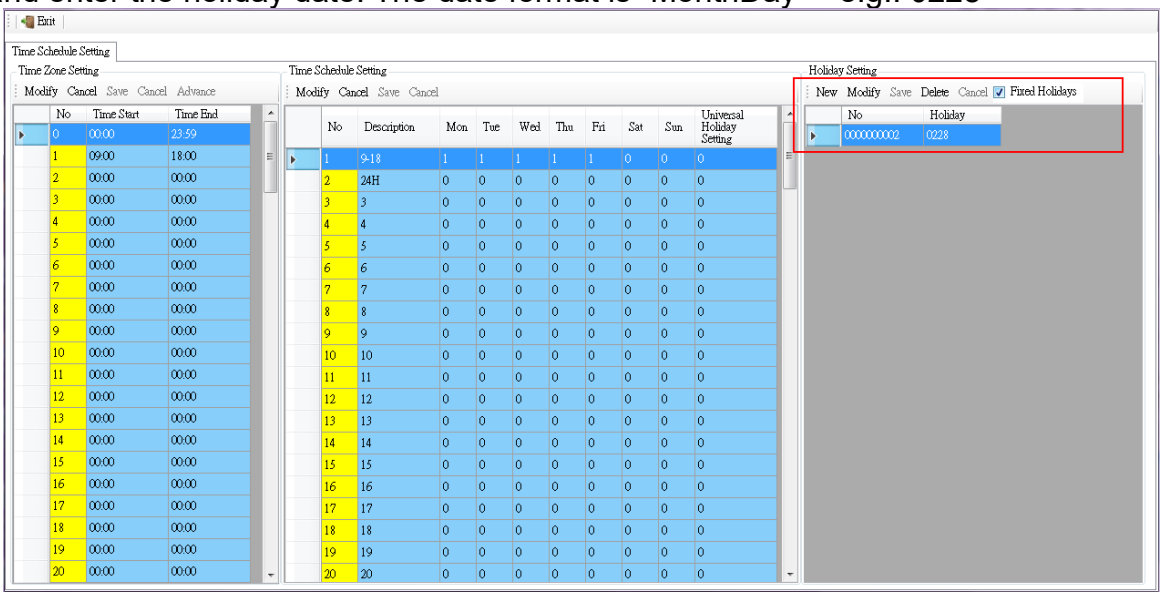


Notice：

In time schedule setting, if the field of universal-type device holiday setting is entered with the time zone number, it will become the basis of the universal-type device hoilday settings. e.g.: In the time schedule seting, if you entered “1” (9-18) in the fields, entered “0”(00:00~23:59) in the field of universal-type device’s holiday settings and entered 20180101 in holiday setting, the universal-type device will deem 20180101 as a holiday and the time schedule will be “0”(00:00~23:59).



4. If the holiday date is fixed per year, then you can use the the function “Fixed Holiday” and enter the holiday date. The date format is “MonthDay” e.g.: 0228



7-11 Elevator Authorization Settings (HDE-120/HAC-101)

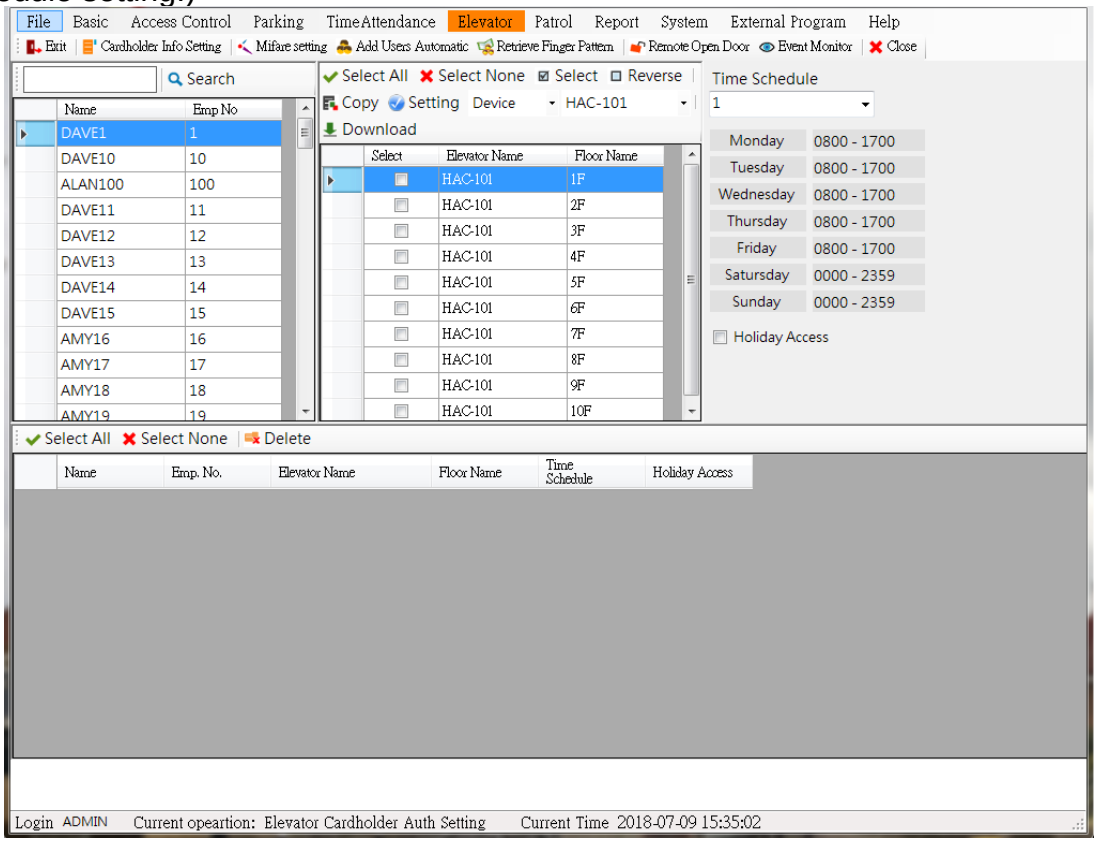
This function is to set individual's elevator floor authorizations and download to controller. Each cardholder can has only one time schedules for each elevator. Therefore, if the new time schedule is applied while setting a new floor authorization, the original time schedules will be changed to the new one.

7-11-1 Add elevator authorizations

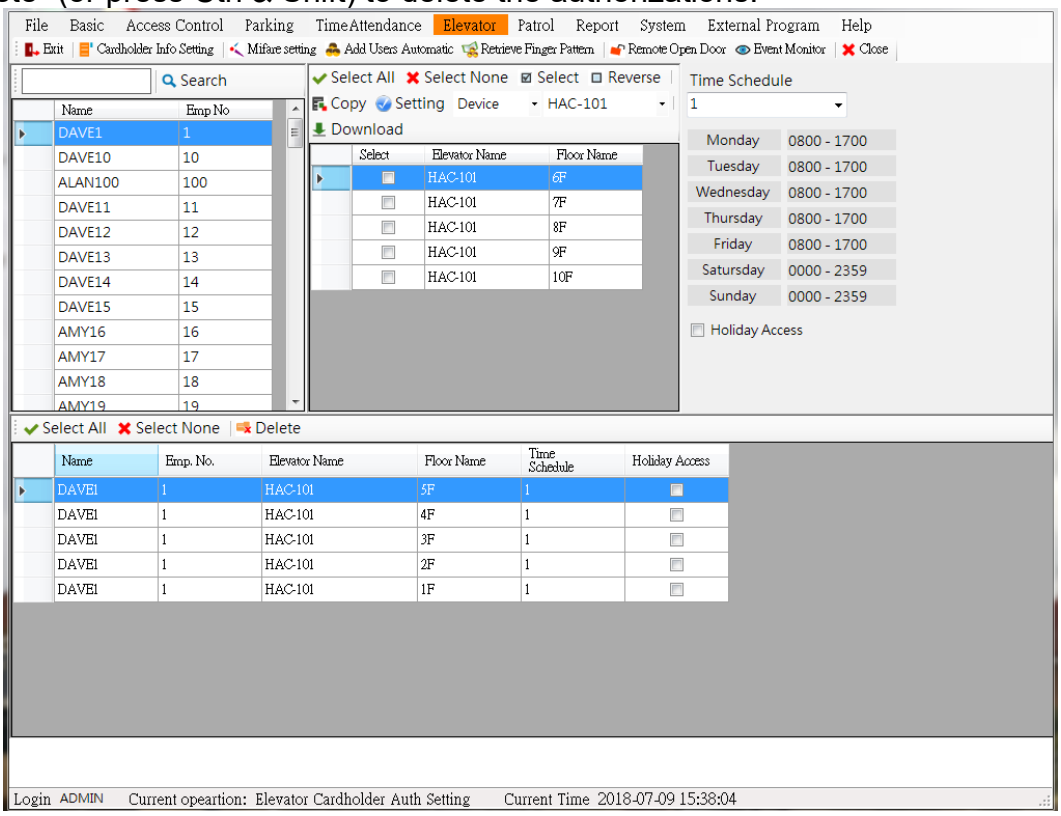
Add individual's elevator authorizations:

Operating Steps：

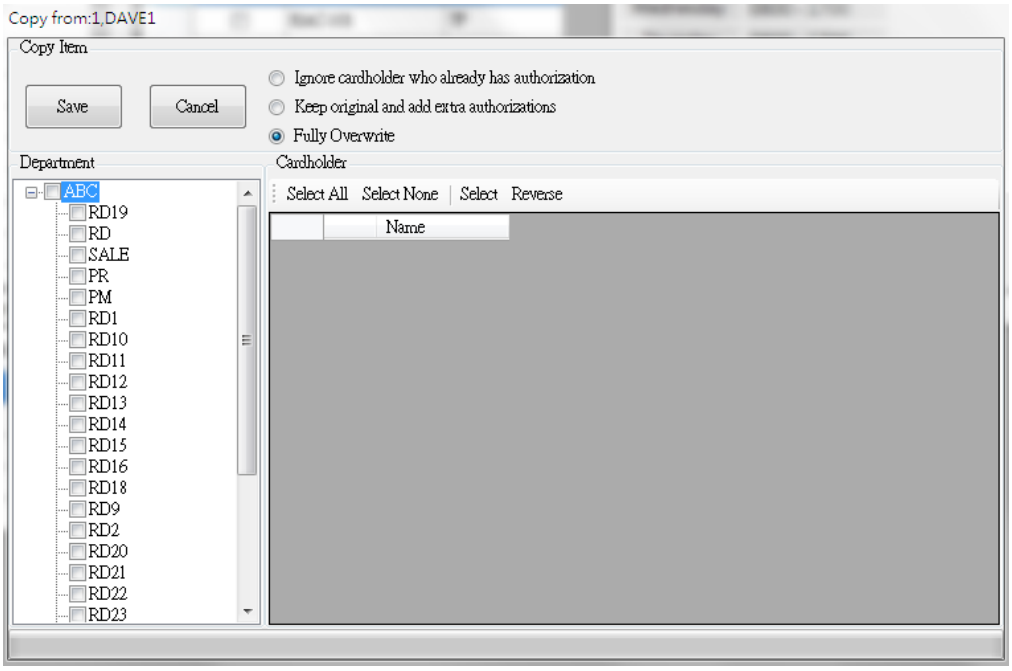
1. Select the cardholder. You can enter the cardholder's name and click "Search"
2. Select the desired elevator name from the drop-down list
3. Select the floors that allow access. You can use "Select All" or "Select None" Tabs
4. Select the time schedule, the timeslots of each day of week will come out in the below for preview.
5. Select whether to restrict the holiday. If the holiday settings have been configured, the holiday rules will be followed accordingly. (This function is not supported, the holiday restrict set of this model needs to be set by the Universal Holiday Setting in the time schedule setting.)



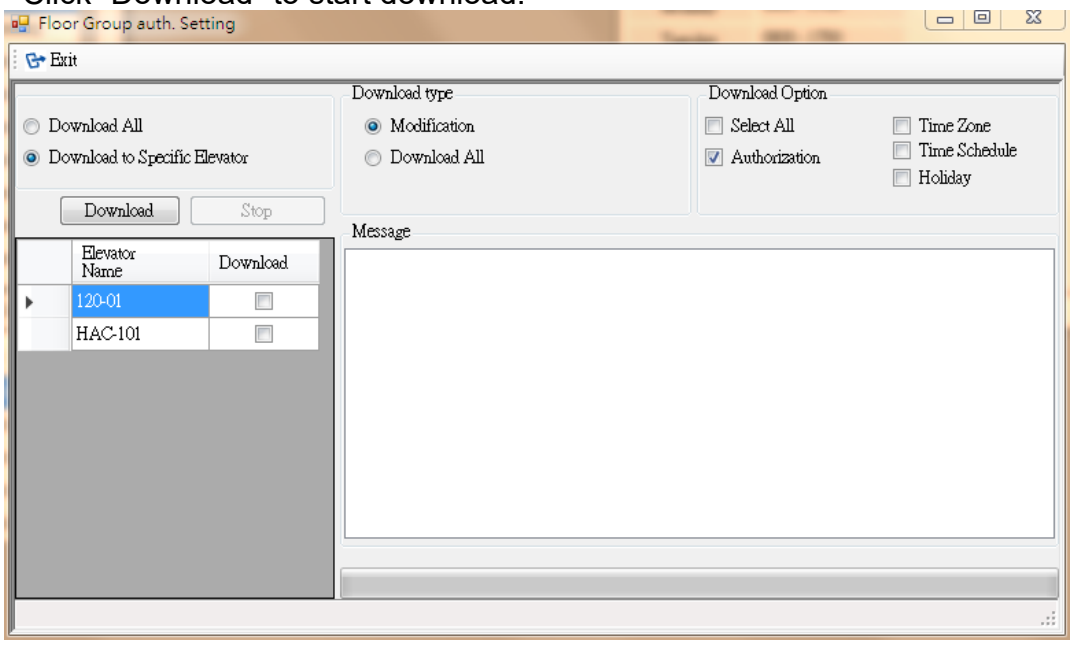
6. Click “Setting” to show the authorizations you just set in the below. You can also click “Delete” (or press Ctrl & Shift) to delete the authorizations.



7. If “Copy” clicked, it can be copied to other cardholders
   - Ignore cardholders who already has authorizations： Skip those cardholders who already have authorizations
   - Keep original and add extra authorizations: If the cardholders already have authorizations, the system will check to overwrite the repetitive part and add the new ones if there is no repetition.
   - Fully Overwrite：Delete all existing authorizations and apply the new authorizations



8. Click “Download” to enter the download screen
   - Download elevator：Select to download to all elevators (controller) or to specific elevators (controllers) by clicking the desired controllers HDE-100。
   - Download Type：Select “Modification” for differential download or select “Download all” for all download
   - Download Option：Select the desired items to download. You can tick “Select All” or tick the specific items to download, such as authorizations, time zone, time schedule or holiday
   - Click “Download” to start download.

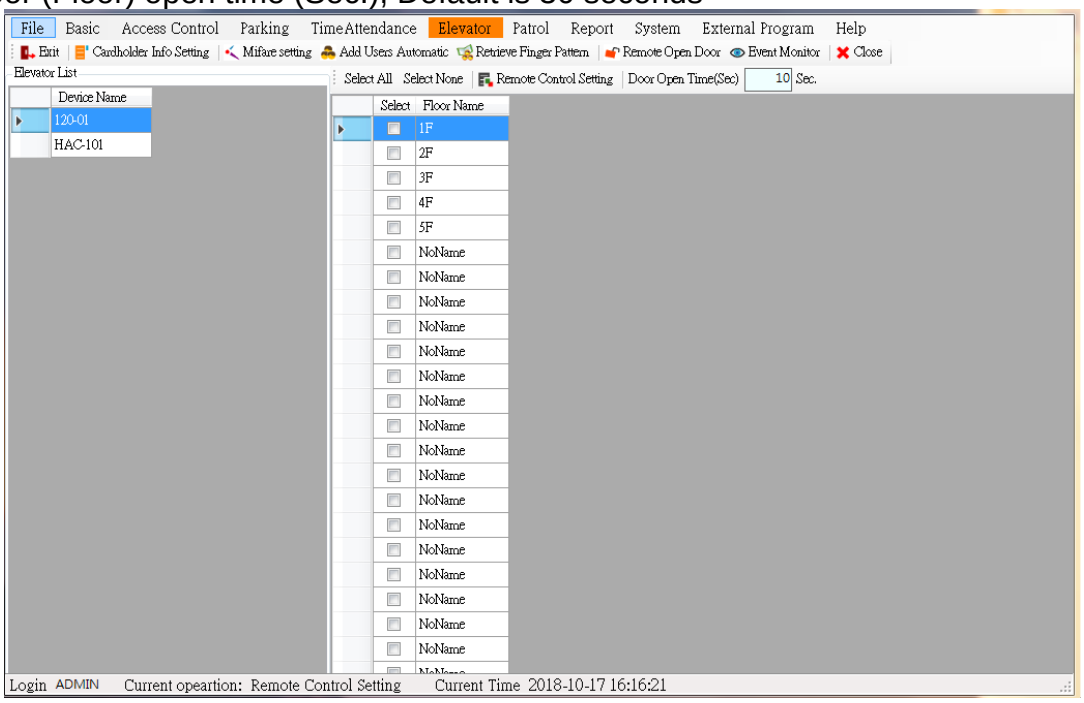


7-12 Elevator remote unlock (HDE-120/HAC-101)

HAC-101provides the remote unlock function for choice (HAMS-10 supported models do not support this function)

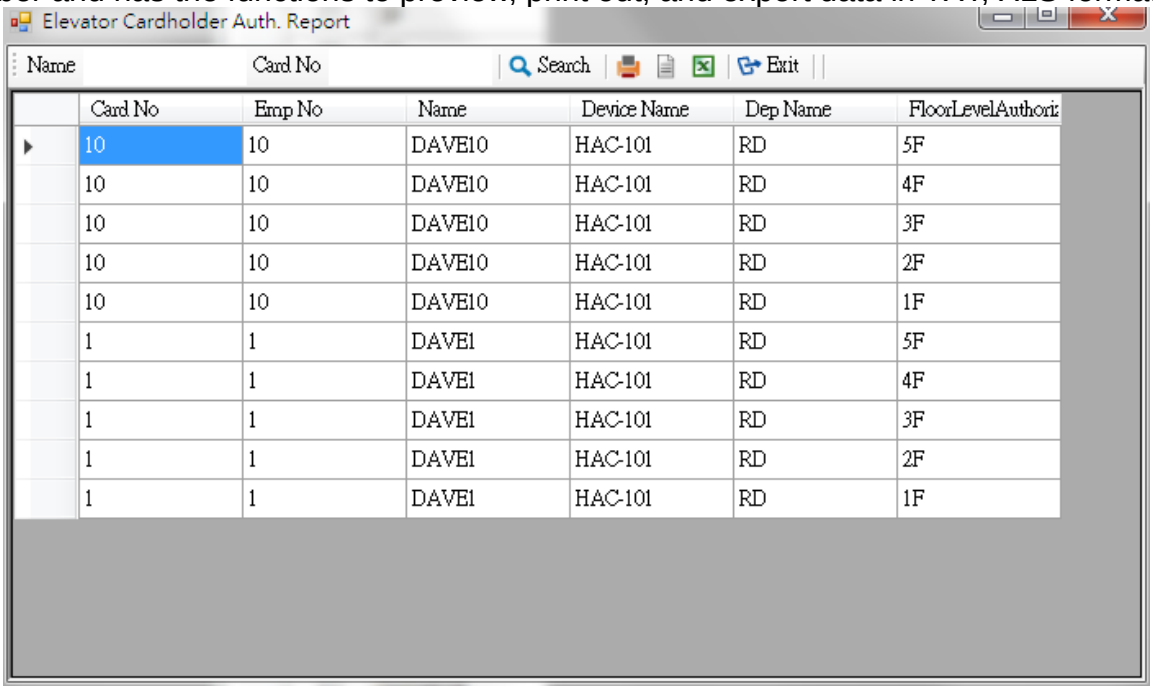
Operating steps：

1. Select the elevator
2. Select the floors; Select remote unlock
3. Door (Floor) open time (Sec.); Default is 30 seconds



7-13 Elevator Authorization Overview (HDE-120/HAC-101)

To display an elevator's authorization report. It can be searched by employee's name, card number and has the functions to preview, print out, and export data in TXT, XLS format.



Card No	Emp No	Name	Device Name	Dep Name	FloorLevelAuthori
10	10	DAVE10	HAC-101	RD	5F
10	10	DAVE10	HAC-101	RD	4F
10	10	DAVE10	HAC-101	RD	3F
10	10	DAVE10	HAC-101	RD	2F
10	10	DAVE10	HAC-101	RD	1F
1	1	DAVE1	HAC-101	RD	5F
1	1	DAVE1	HAC-101	RD	4F
1	1	DAVE1	HAC-101	RD	3F
1	1	DAVE1	HAC-101	RD	2F
1	1	DAVE1	HAC-101	RD	1F

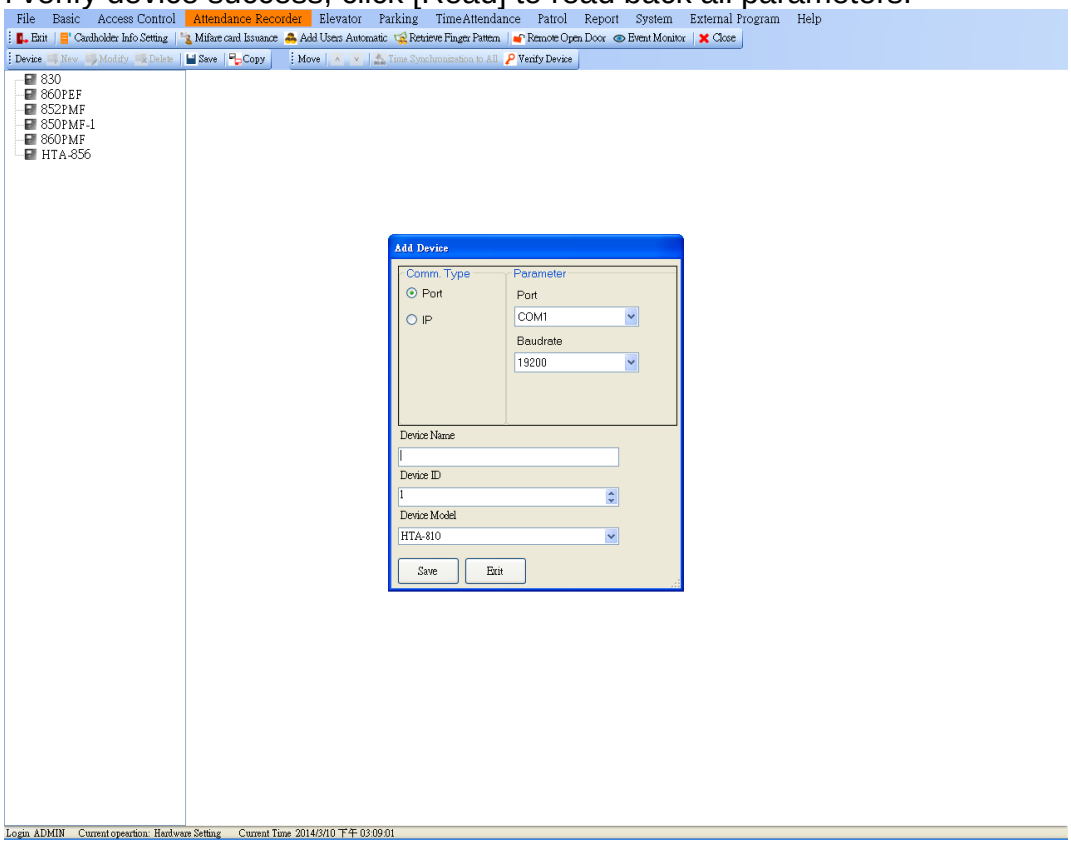
8. Time Attendance

8-1 Hardware Setting

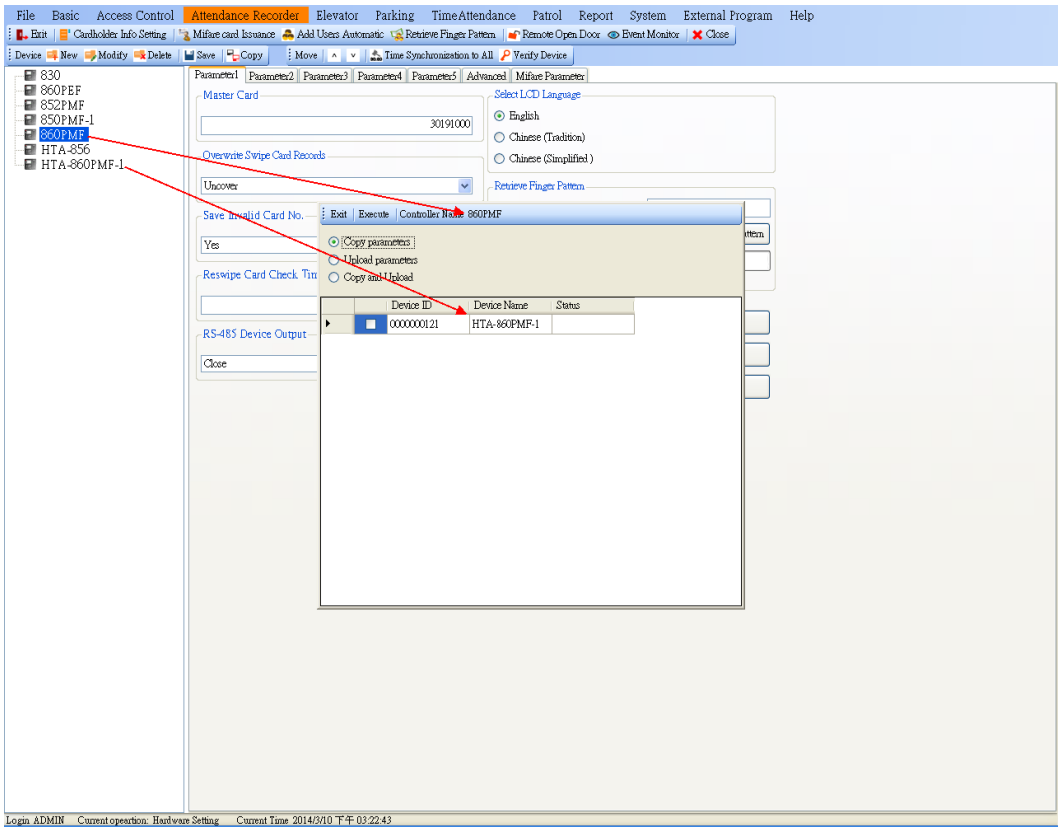
8-1-1 Add device and set communication

Operation Steps:

1. Click [New], and then select communication type.
   - Communication Type: Select COM PORT or TCP/IP. When using COM PORT, please make sure the COM PORT number and baud rate must be 19200. When using TCP/IP, please input IP address and port.
   - USB, check this box to allow only one piece of device being connected to PC by USB (This function is only for HTA-500/502 series)
2. Input device name and device ID (Default ID is 1).
3. Select device model.
4. Save the setting. The [Verify Device] is reserved.
5. When verify device success, click [Read] to read back all parameters.



6. Click [Copy] and may copy parameter to other same model machines.
   - Copy Parameter: Only copy Siren Timetable and Duty Time Switch Table to selected same model machines.
   - Upload Parameter: System will upload above timetables to selected same model machines individually.
   - Copy and Upload: System will copy and upload current machine's timetables to selected same model machines.



7. Click Order may sort the devices.

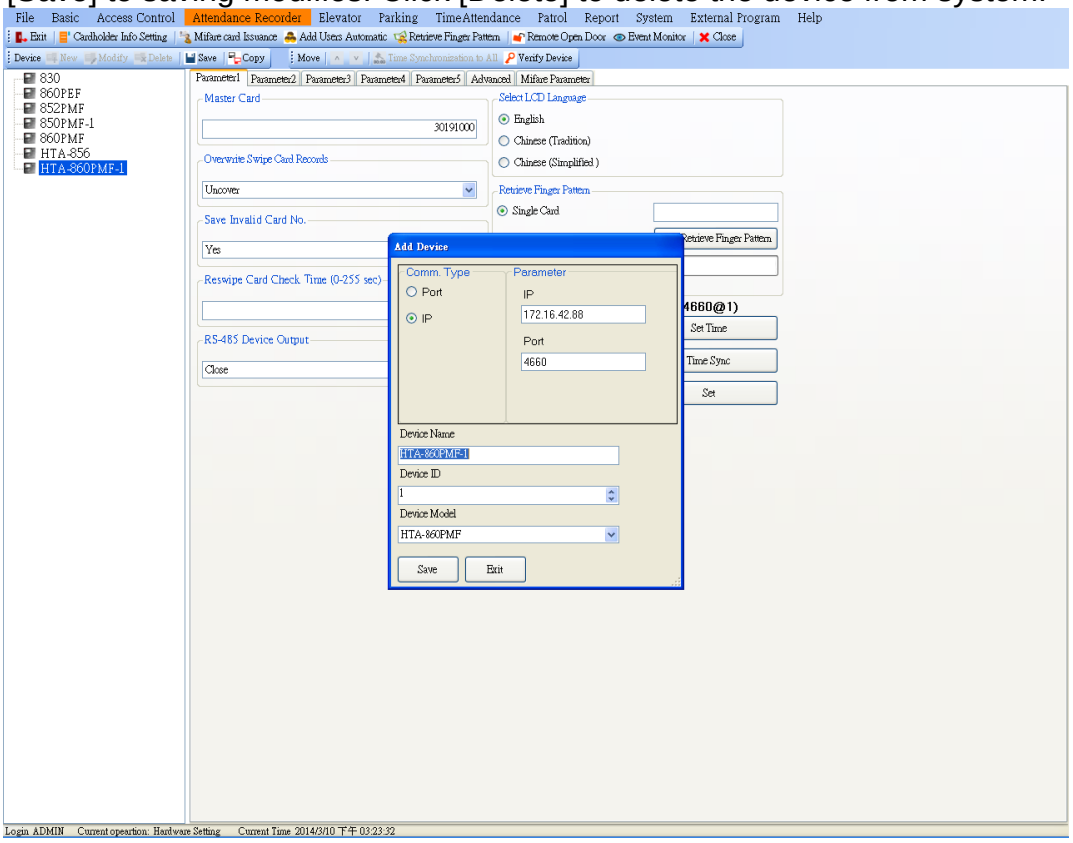
8. Set device time.
   - Set time: Input date and time by user.
   - All Time Sync: Synchronize all devices time by PC.

8-1-2 Modify Connecting Information

Modify communication parameters and device name.

Operation Steps:

1. Select the device on the left side.
2. Click [Modify].
3. Modify the setting. Like comm. type, device name and device ID.
4. Click [Save] to saving modifies. Click [Delete] to delete the device from system.



8-1-3 Parameter 1 (HTA-640/HTA-856/HTA-860/HTA-870/HTA-871)

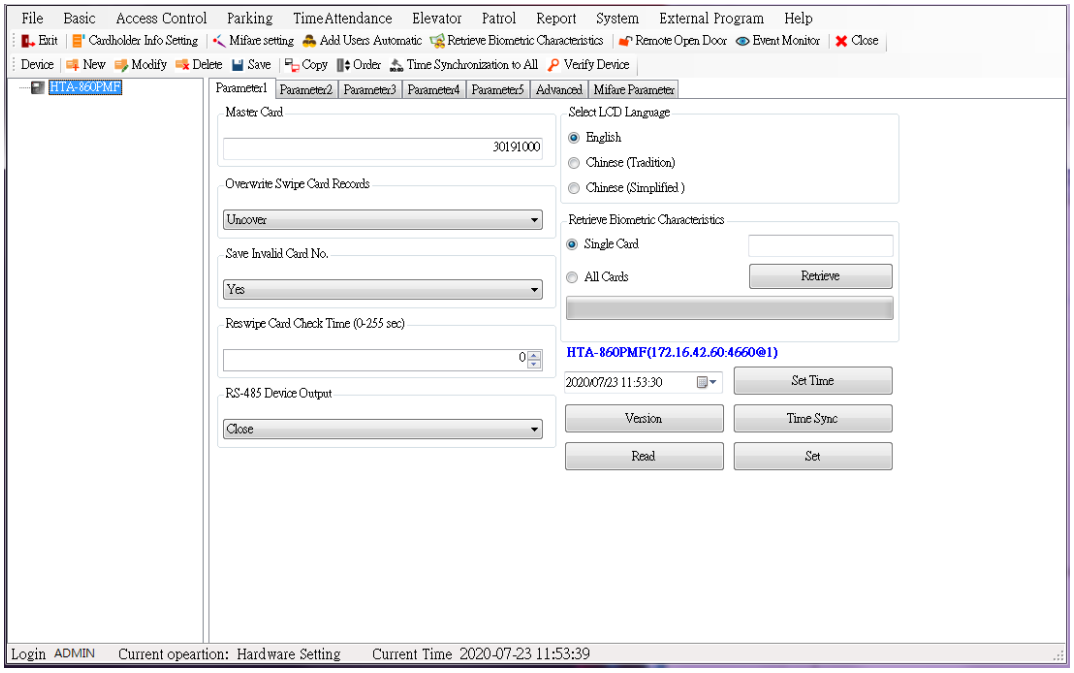
It is mainly to modify recorder's status.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

- Master Card: Required to enter command mode of controller (Default is 30191000). Kindly refer to hardware manual.
- Overwrite Swipe Card Records: System will stop saving records or overwrite records when the storage limit is exceeded.
- Save Invalid Card No: Store or not store invalid card records selection.
- Re-swipe Card Check Time (0-255 sec): This is the time for checking the card repeatedly. As the time is set, when swiping the card more than once within a preset time, system will not record the event and make beep sound.
- RS-485 Device Output: Connect with LCD display, DVR or printer.
- Select LCD Language:
  English: LCD displays English
  Tradition Chinese: LCD displays Tradition Chinese
  Simplified Chinese: LCD displays Simplified Chinese
- Retrieve Biometric Characteristics: Retrieve biometric characteristics from device to database.(For biometric characteristics device only):
  Single Card: Retrieve single card biometric characteristics. Input card number first then press [Retrieve].
  All Cards: Press [Retrieve] to retrieve all card biometric characteristics. It is highly recommend retrieving all card biometric characteristics at first time. After that, user can retrieve biometric characteristics singly to avoid long time retrieval. (System will take 4~5 minutes for 200 biometric characteristics)
  NOTE: Please retrieve all biometric characteristics within no users use machine, especial avoid office hours lest retrieval failed. If retrieval failed, system will have a log file in C:\Program files\HAMS-20\Logs\date.log. Operator may know which retrieval is failed and retrieve it again by "Single Card".


File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare setting Add Users Automatic Retrieve Biometric Characteristics Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Order Time Synchronization to All Verify Device
HTA-860PMF
Parameter1 Parameter2 Parameter3 Parameter4 Parameter5 Advanced Mifare Parameter
Master Card
30191000
Overwrite Swipe Card Records
Uncover
Save Invalid Card No.
Yes
Reswipe Card Check Time (0-255 sec)
0
RS-485 Device Output
Close
Select LCD Language
English
Chinese (Tradition)
Chinese (Simplified)
Retrieve Biometric Characteristics
Single Card
All Cards
Retrieve
HTA-860PMF(172.16.42.60:4660@1)
2020/07/23 11:53:30
Set Time
Version
Time Sync
Read
Set
Login ADMIN Current opeartion: Hardware Setting Current Time 2020-07-23 11:53:39

8-1-4 Parameter 2(HTA-640/HTA-856/HTA-860/HTA-870/HTA-871)

It is mainly to modify recorder's status.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

[Card No Status]

- Digits Only: Tick the check box signifies all card number should be digits. If card number with English letters, LCD will display error message after card swiped. If operators do not set how many digits should check, all number should be digits.
- Card No Length: Length of card number should be digits.

[Keypad Setup]

- Enable Number Key: Tick the check box to enable number key.
- Enable Function Key: Tick the check box to enable function keys F1~F4(HTA-640/ HTA-860/HTA-870/HTA-871)/F1~F6(HTA-856).
- Keypad with Backlight

  Auto: When swipe card or press the keypad, the keypad backlight will activate automatic.

  Open: Always activate of keypad backlight.

  Close: Always inactivate of keypad backlight.

[Audio Status]

- Enable Audio Prompt: Tick the check box to enable Audio Prompt. (Biometric characteristics machine only)
- Siren Output: Tick the check box to enable siren output.

[Retrieve valid code]

- Index: The index digit of retrieve valid card number.
- Length: How many digits you want to retrieve of valid card no.

  Ex: Card NO. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card no. should

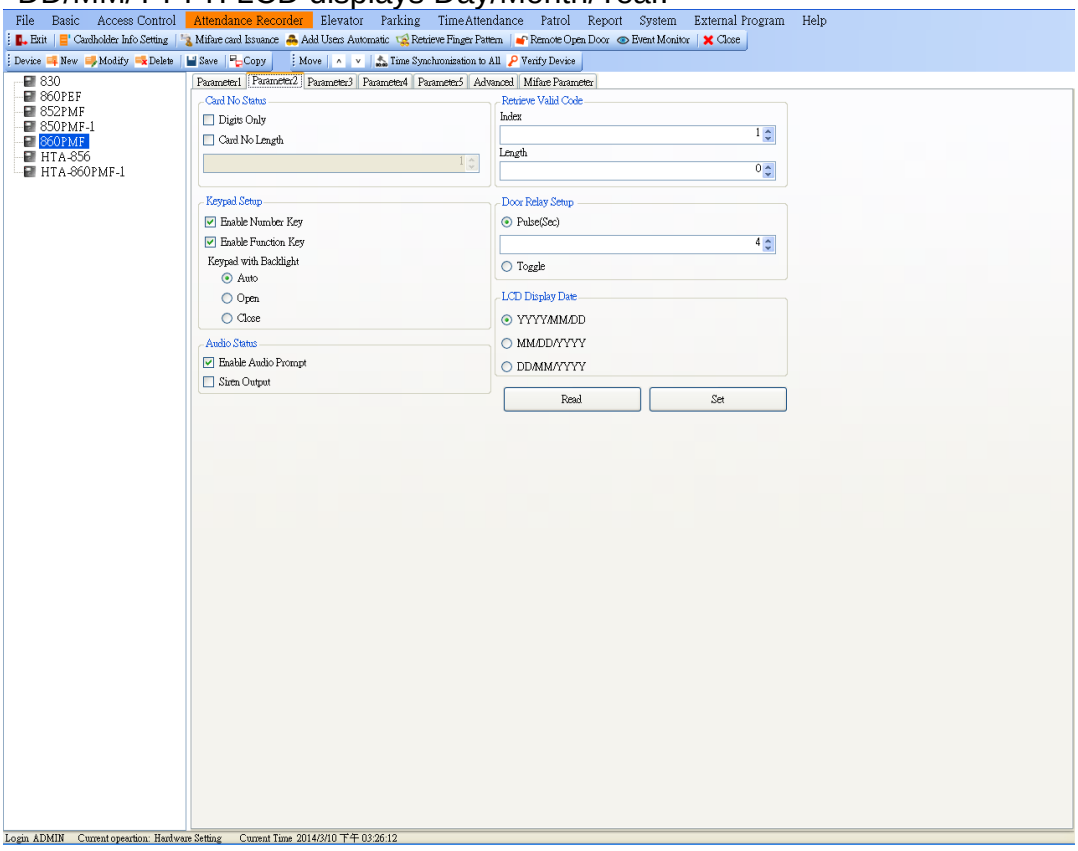
be 234567 too, otherwise the door will not open.

[Door Relay Setup]

- Pulse (Second): Door relay will return to original position within the time user set. Default is 4 seconds.
- Toggle: Door relay will not return to original position until door relay has been activated again.

[LCD Display Date]

- YYYY/MM/DD: LCD displays Year/Month/Day.
- MM/DD/YYYY: LCD displays Month/Day/Year.
- DD/MM/YYYY: LCD displays Day/Month/Year.



8-1-5 Parameter 3 (HTA-640/HTA-856/HTA-860/HTA-870/HTA-871)

It is mainly set what duty shift you want to display in the device.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

[LCD Status Setup]

- LCD Display Message: Tick the check box, user-define message will be displayed. Please input define message in M1/M2.
- Backlight Mode

  Auto: When swipe card or press the keypad, the LCD backlight will activate automatic.

  Open: Always activate of LCD backlight.

  Close: Always inactivate of LCD backlight.

[Duty Timetable]

- Display Duty Shift: Provide 9 sets duty shift name. The 7th set displays “Ready” when controller in the Ready Status. And 8th and 9th set is user-define. Need tick LCD Display Message function, and then input messages.
- Duty Time Switch Table: Controller will switch duty shift and display on LCD base on this setting.

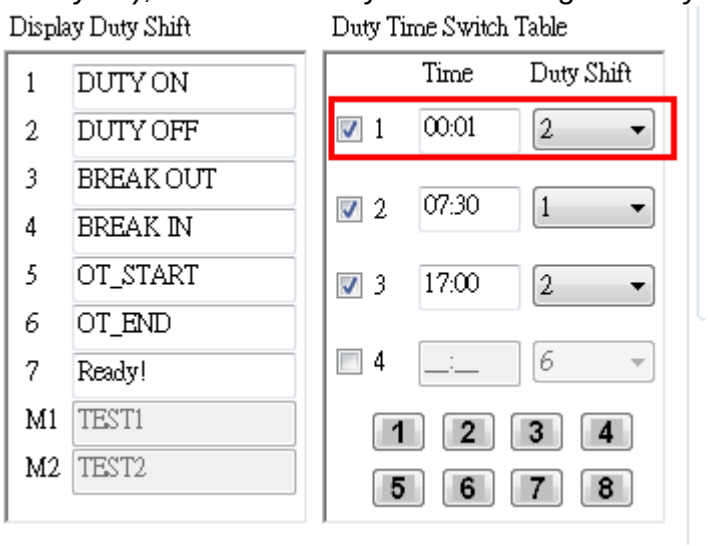
  Operation Steps:

  - Select numeric keys, 4 sets of duty shift time schedule to each numeric key 1~8. Total has 32 sets.
  - Tick the box which wants to display on the LCD. Like
  - Input start time. Like 0800.
  - Input duty shift code. Please input duty description in “Display Duty Shift Time “worksheet.

  Note: It will need to set up the duty time in the area, when you synchronize the time. Otherwise, it will go back to default duty-on if the device checks the setting without duty time.

  For instance, the normal duty time is 7:30~17:00. If you are looking for synchro-

nization at 7:00, you need to set up another duty time from 00:00 to 07:29. After synchronization finishes, devices will check whether they have duty time or not (00:01 will be duty off), the default duty-on will change to duty-off.



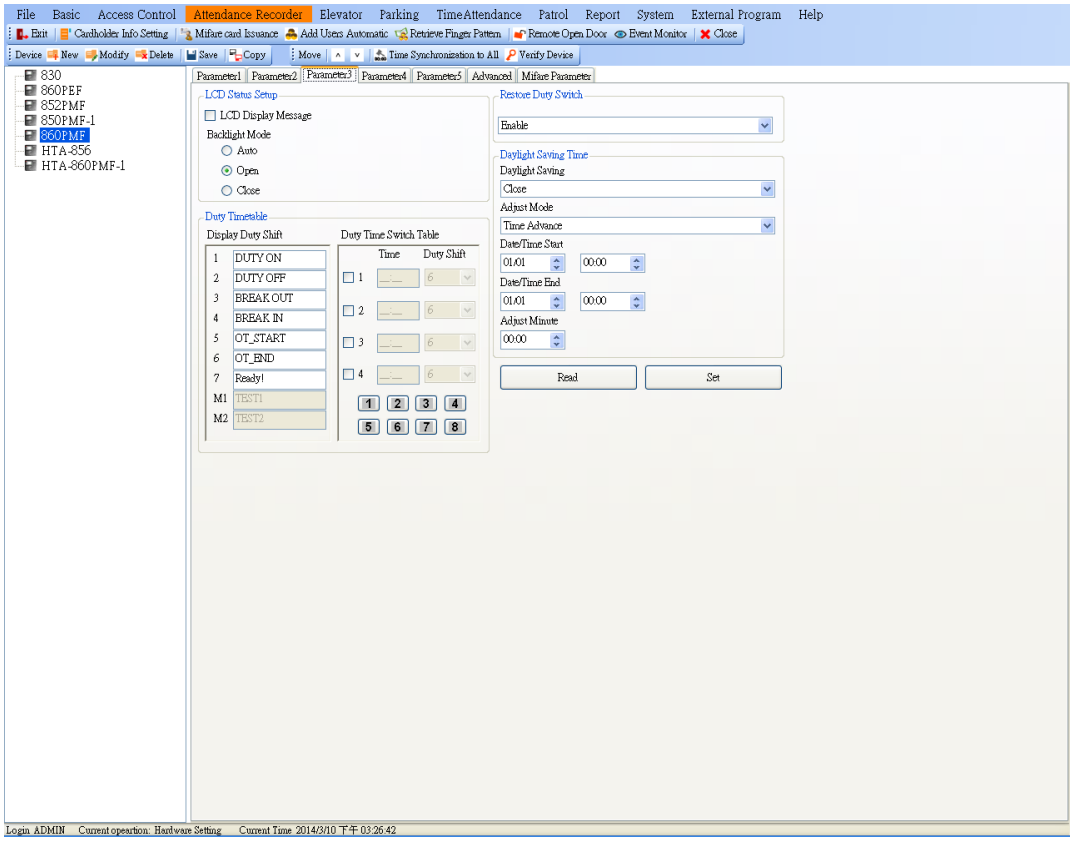
[Restore Duty Switch]

When change duty shift manual, if system need back to current duty shift.

- Enable: System will back to current duty shift automatically.
- Disable: System will stand in manual duty shift.

[Daylight Saving Time]

- Daylight Saving: Open or close this function.
- Adjust Mode: Time advance or delay.
- Date/Time Start: Start date and time
- Date/Time End: End date and time
- Adjust Minute: How many minutes should advance or delay.


File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Move Time Synchronization to All Verify Device
830
860PEF
852PMF
850PMF-1
860PMF
HTA-856
HTA-860PMF-1
Parameter1 Parameter2 Parameter3 Parameter4 Parameter5 Advanced Mifare Parameter
LCD Status Setup
LCD Display Message
Backlight Mode
Auto
Open
Close
Duty Timetable
Display Duty Shift
1 DUTY ON
2 DUTY OFF
3 BREAK OUT
4 BREAK IN
5 OT_START
6 OT_END
7 Ready!
M1 TEST1
M2 TEST2
Duty Time Switch Table
Time Duty Shift
Restore Duty Switch
Enable
Daylight Saving Time
Daylight Saving
Close
Adjust Mode
Time Advance
Date/Time Start
01.01 00:00
Date/Time End
01.01 00:00
Adjust Minute
00:00
Read
Set
Login ADMIN Current opeartion: Hardware Setting Current Time 2014/3/10 下午 03:26:42

8-1-6 Parameter 4 (HTA-640/HTA-856/HTA-860/HTA-870/HTA-871)

It is mainly to modify relay and sensor's status of recorder.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

[Error Procedure]

- Permit Error Times: Allowed error times of re-swiping card.
- Buzzer Frequency: When error times are over preset times, controller activate buzzer frequency.
- Disarm Alarm Mode: Select to deactivate the alarm by any valid card or Master card.
- Alarm Action: Enable or disable alarm action.

[Alarm Relay Setup]

- Pulse (Second): It will return to original position within the time you set.
- Toggle: Alarm relay will not return to original position until alarm relay has been activated again.
- Latch: It will not return to original position until alarm release code has been entered.

[Alarm Schedule]

- Open: When tick the check box, system will only activate alarm during the time range of schedule. Otherwise alarm relay can not activate for anytime.
- Time Start: Set alarm start time.
- Time End: Set alarm end time.

[Door Relay Action When Re-swipe Card]

When re-swipe card, if the door relay activated.

[Return to Ready status (Sec)]

The duration of return to ready status after swiping card.

[Relay Action]

Define relay action. Default mode is mode 0.

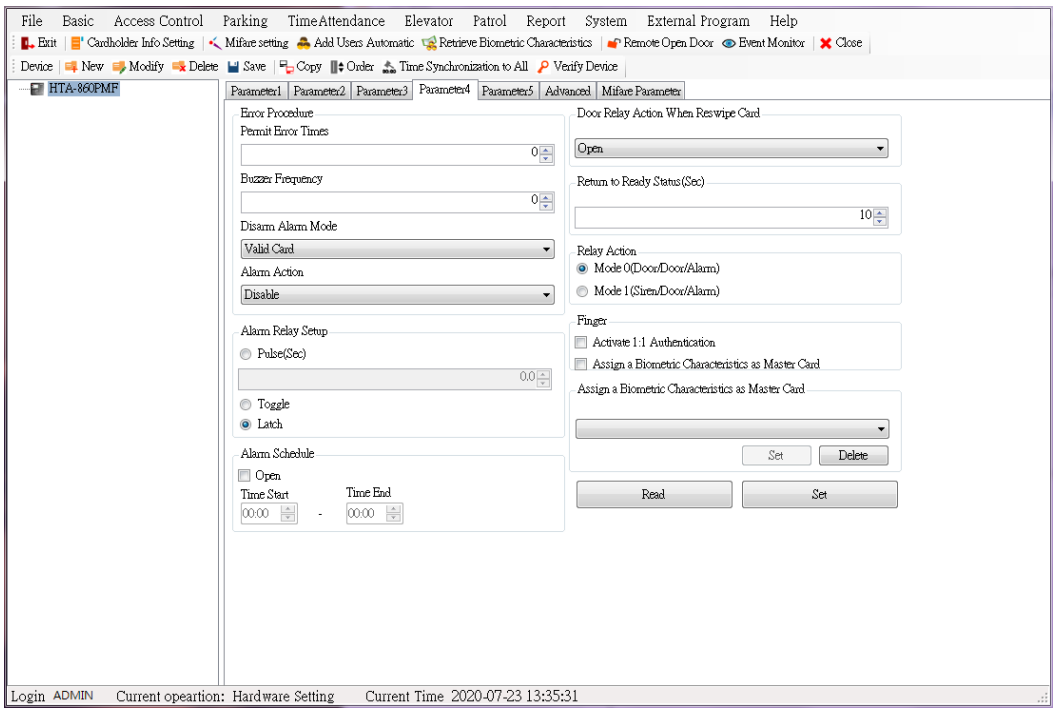
- Mode0 (Door/Door/Alarm): Built-in relay of controller is for door lock. External first relay of ACU-30 is for door lock and second relay is for Alarm.
- Mode1 (Siren/Door/Alarm): Built-in relay of controller is for siren. External first relay of ACU-30 is for door lock and second relay is for Alarm.

[Finger]

- Activate 1:1 Authentication: Default is 1:N identification, user access by biometric characteristics only. When tick the box, user need swipe card and put biometric characteristics for access.
- Assign a Biometric Characteristics as Master Card: Once tick the check box, operator may assign a specify user's biometric characteristics as a master biometric characteristics.

[Assign a Biometric Characteristics as Master Card]: After retrieve biometric characteristics from device to HAMS, operator may select a user's biometric characteristics as Master biometric. To using this function, please tick the check box of use biometric characteristics as Master Card.

NOTE: After set Master biometric, the original master card/code will become invalid. To be regain original Master card/code authority. Please delete Master biometric. Otherwise, the priority will be master biometric.


File
Basic
Access Control
Parking
TimeAttendance
Elevator
Patrol
Report
System
External Program
Help
Exit
Cardholder Info Setting
Mifare setting
Add Users Automatic
Retrieve Biometric Characteristics
Remote Open Door
Event Monitor
Close
Device
New
Modify
Delete
Save
Copy
Order
Time Synchronization to All
Verify Device
HTA-860PMF
Parameter1
Parameter2
Parameter3
Parameter4
Parameter5
Advanced
Mifare Parameter
Error Procedure
Permit Error Times
Buzzer Frequency
Disarm Alarm Mode
Valid Card
Alarm Action
Disable
Alarm Relay Setup
Pulse(Sec)
Toggle
Latch
Alarm Schedule
Open
Time Start
Time End
Door Relay Action When Reswipe Card
Open
Return to Ready Status(Sec)
Relay Action
Mode 0(Door/Door/Alarm)
Mode 1(Siren/Door/Alarm)
Finger
Activate 1:1 Authentication
Assign a Biometric Characteristics as Master Card
Assign a Biometric Characteristics as Master Card
Set
Delete
Read
Set
Login ADMIN
Current opeartion: Hardware Setting
Current Time 2020-07-23 13:35:31

8-1-7 Parameter 5 (HTA-640/HTA-856/HTA-860/HTA-870/HTA-871)

Set Siren time schedule.

Operation Steps:

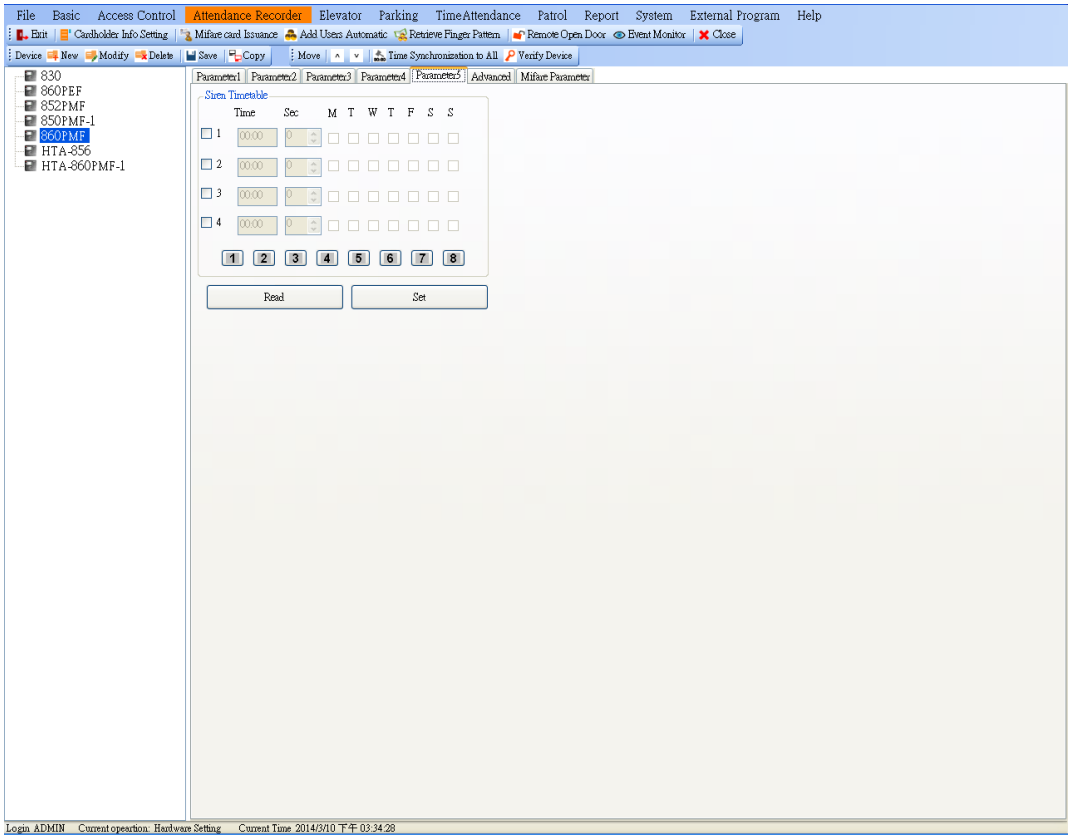
1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

[Siren Timetable]

Operation Steps:

1. Select numeric keys, 4 sets of siren timetable to each numeric key 1~8. Total has 32 sets.
2. Tick the box which wants to activate.
3. Input start time
4. Input duration. How many seconds you want siren works.
5. Tick the box of weekday. The siren will not activate if the check box is not ticked.



8-1-8 Advance Parameter (HTA-640/HTA-856/HTA-860/HTA-870/HTA-871)

It is mainly to modify slave reader's interface.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

[Reader Type]

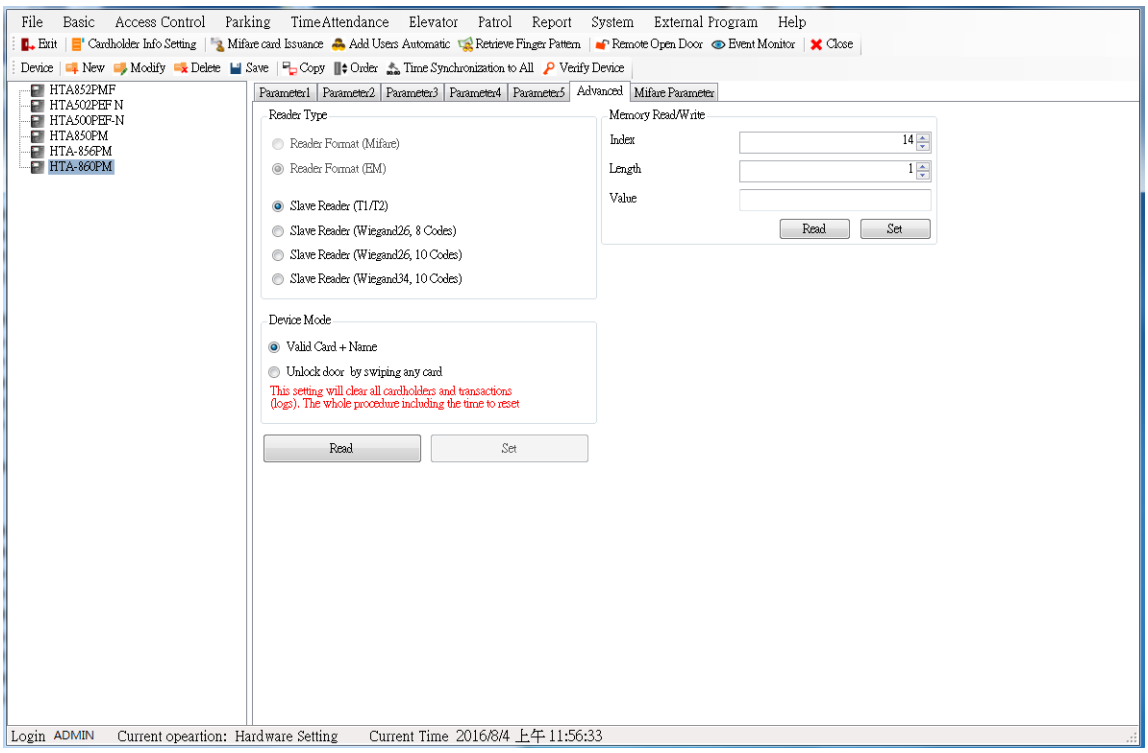
- Reader Format (Mifare): Controller supports Mifare card format.
- Reader Format (EM): Controller supports EM card format.
- Slave Reader (T1/T2): Slave reader supports T1/T2 interface. Reader will send 10 digits back to program.
- Slave Reader (Wiegand 26, 8 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program.
- Slave Reader (Wiegand 26, 10 codes): Slave reader supports Wiegand 26 interface. Reader will send 8 digits back to program and program add 00 in front of number automatically and display 10 digits to users.
- Slave Reader (Wiegand 34, 10 codes): Slave reader supports Wiegand 34 interface. Reader will send 10 digits back to program.

[Device Mode] (HTA-640PE/HTA-856PE/PM/HTA-860PE/PM/HTA-870PE/PM/HTA-871PE/PM Only)

- Valid Card + Name: Must download authorization to recorder. LCD will display card number and cardholder's name after card swiped.
- Unlock door by swiping any card: Do not need download authorization to recorder. And any card may open door.

[Memory Read/Write]

Change memory value from specified block to change controller actions. Please contact with service for details operation. Please do not modify data arbitrary, therefore controller will be abnormal.


File Basic Access Control Parking Time Attendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Order Time Synchronization to All Verify Device
HTA852PMF
HTA502PEF-N
HTA500PEF-N
HTA850PM
HTA-856PM
HTA-860PM
Parameter1 Parameter2 Parameter3 Parameter4 Parameter5 Advanced Mifare Parameter
Reader Type
Reader Format (Mifare)
Reader Format (EM)
Slave Reader (T1/T2)
Slave Reader (Wiegand26, 8 Codes)
Slave Reader (Wiegand26, 10 Codes)
Slave Reader (Wiegand34, 10 Codes)
Device Mode
Valid Card + Name
Unlock door by swiping any card
This setting will clear all cardholders and transactions (logs). The whole procedure including the time to reset
Read
Set
Memory Read/Write
Index 14
Length 1
Value
Read
Set
Login ADMIN Current opeartion: Hardware Setting Current Time 2016/8/4 上午 11:56:33

8-1-9 Mifare Parameter
(HTA-856PM/HTA-860PM/PMF/HTA-870PM/PMF/HTA-871PM/PMF)

[Mifare Setup]

Allow the user to set the reading unique ID or block of Mifare cards.

Operation Steps:

- Unique ID Reading: Allow user read serial number only. When select this parameter, please ignore follow settings.
- Key A Reading: Login by Key A value.
- Key B Reading: Login by Key B value.
- Retrieve valid code index: The index digit of retrieve valid card number.
- Retrieve valid code length: how many digits you want to retrieve of valid card number. This parameter works hand in hand with “Retrieve valid code index”.
- Block Reading: Assigned read allotted block.
- Key A/Key B Value: The value of allotted block
- Display Password: When tick the box, Key A/Key B ‘s password will display on plain code
- Compress Card No: Default is uncompressing card number. If need compress card number, please tick the check box.

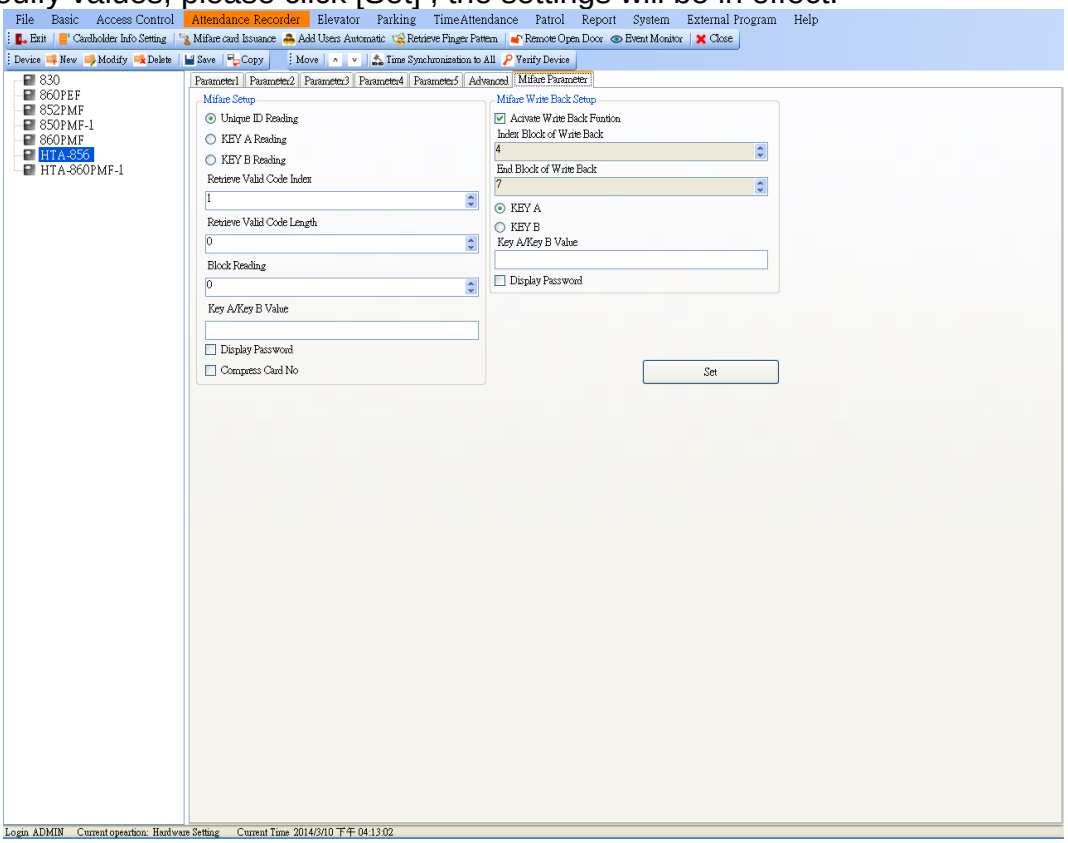
[Mifare Write Back Setup](HTA-856PM/HTA-860PM/HTA-870PM/HTA-871PM Only)

- Activate Write Back Function: Controller must have “Write-back function”. Tick the check box to activate this function.
- Index Block of Write Back: Start block of write-back.
- End Block of Write Back: End block of write-back
- Key A / Key B: Select to confirm Key A or Key B’s password.
- Key A/key B Value: Input Key A or Key B’s password
- Display Password: When tick the check box, password will display plain code.

Mifare Write Back Setup：

Quantity	Index Block	End Block
50	4	23
	8	27
	12	31
	16	35
	20	39
	24	43
	28	47
	32	51
	36	55
	40	59
	44	63
100	4	39
	8	43
	12	47
	16	51
	20	55
	24	59
	28	63

After modify values, please click [Set] , the settings will be in effect.



8-1-10 Parameter 1 (HTA-810/820/830/840)

It is mainly to modify device parameters.

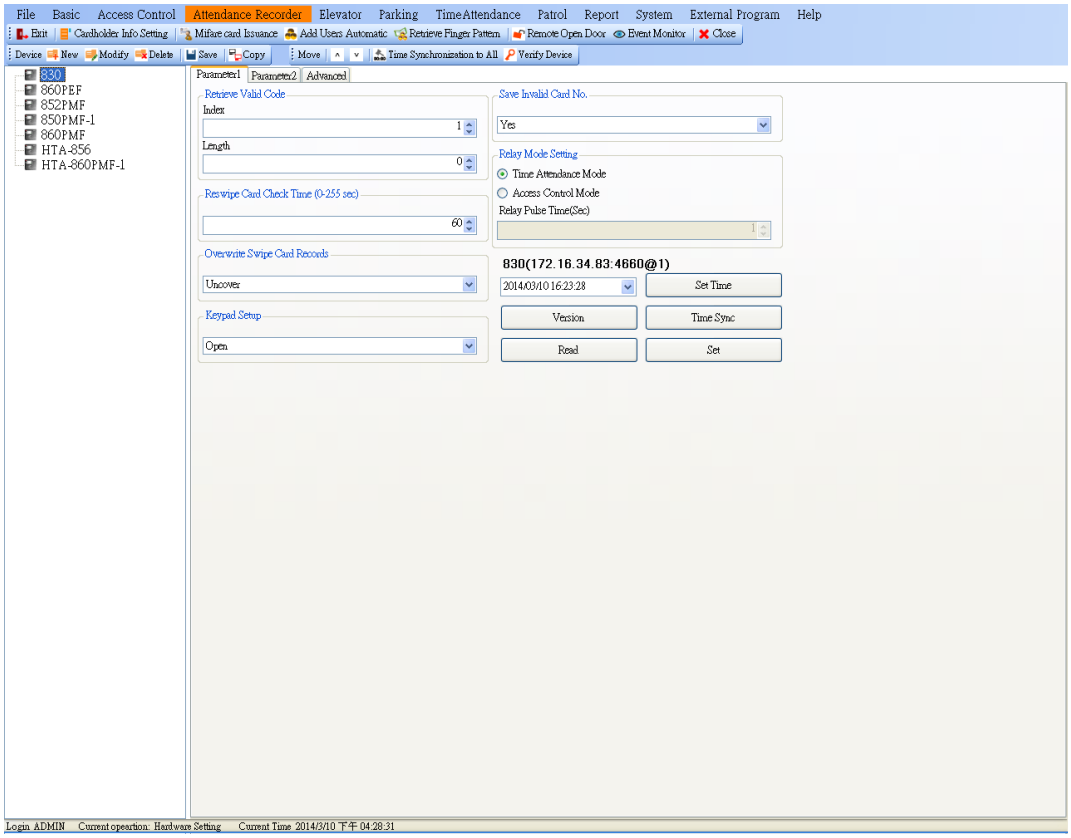
Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.

Parameter contents：

- Retrieve Valid Code: Index signifies index digit of retrieve valid card number. Length signifies how many digits you want to retrieve of valid card number.
  Ex: Card No. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card no. should be 234567 too, otherwise the door will not open.
- Re-swipe Card Check Time (0-255 sec): This is the time for checking the card repeatedly. Default is 0. As the time is set, when swiping the card more than once within a preset time, system will not record the event and make beep sound.
- Overwrite Swipe Card Records: System will overwrite records (Yes) or stop saving records (Uncover). When uncover selection, LCD screen will display FULL message when the storage limit is exceeded.
- Keypad Setup: Disable or enable keypad function. (except HTA-810)
- Save Invalid Card No: Store or not store invalid card records selection.
- Relay Mode Setting: (except HTA-810)
  - Time Attendance Mode: Relay is for siren use.
  - Access Control Mode: Relay is for door lock use and able to set relay pulse action time.

4. After modify values, please remember to click [Set] then change will be in effect.


File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Move Time Synchronization to All Verify Device
830
860PEF
852PMF
850PMF-1
860PMF
HTA-856
HTA-860PMF-1
Parameter1 Parameter2 Advanced
Retrieve Valid Code
Index
1
Length
0
Save Invalid Card No.
Yes
Relay Mode Setting
Time Attendance Mode
Access Control Mode
Relay Pulse Time(Sec)
1
Re-swipe Card Check Time (0-255 sec)
60
Overwrite Swipe Card Records
Uncover
830(172.16.34.83:4660@1)
2014/03/10 16:23:28
Set Time
Version
Time Sync
Read
Set
Keypad Setup
Open
Login ADMIN Current operation: Hardware Setting Current Time 2014/3/10 下午 04:28:31

8-1-11 Parameter 2(HTA-810/820/830/840)

It is mainly to modify device's duty display and siren time schedule.

Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents:

【Duty Timetable】(except HTA-810)

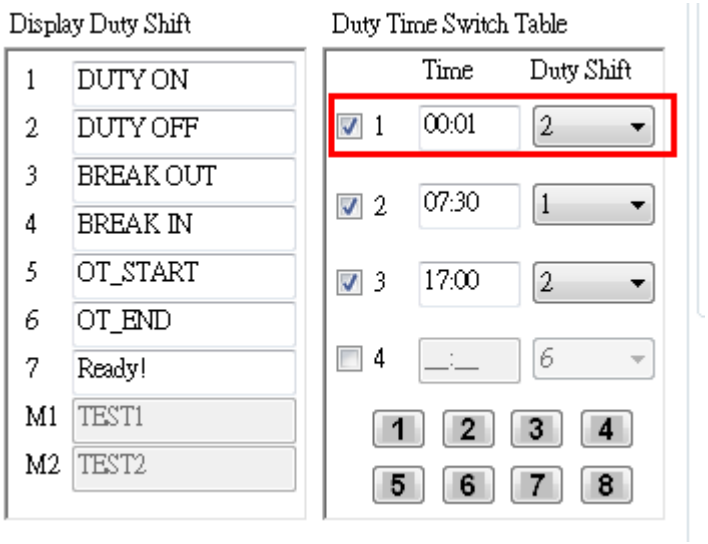
Operation Steps：

1. Select numeric keys, total have 16 sets.
2. Input start and end time.
3. Select duty shift. Total have A、B、C、D, 4 sets.

   For example, set time 0800~1200 for A, the system will change to button A automatic at 08:00.

   Note: It will need to set up the duty time in the area, when you synchronize the time. Otherwise, it will go back to default duty-on if the device checks the setting without duty time.

   For instance, the normal duty time is 7:30~17:00. If you are looking for synchronization at 7:00, you need to set up another duty time from 00:00 to 07:29. After synchronization finishes, devices will check whether they have duty time or not (00:01 will be duty off), the default duty-on will change to duty-off.



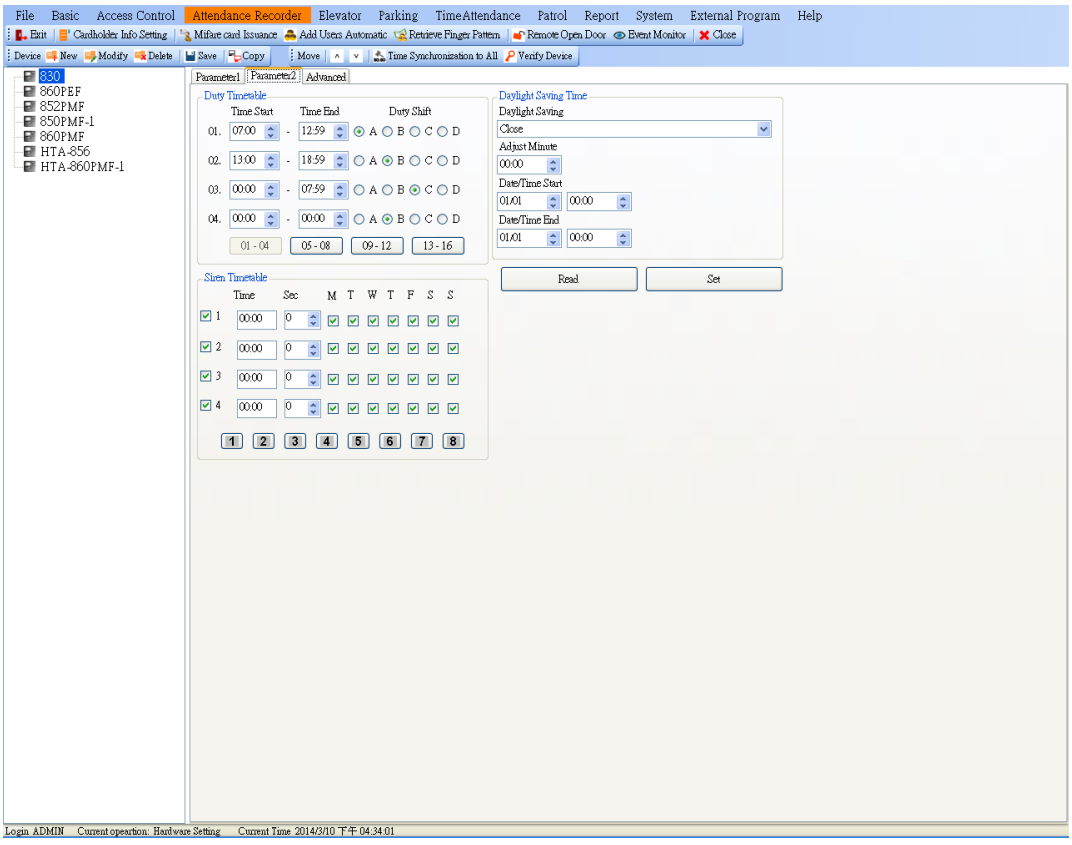
【Siren Timetable】

Operation Steps：

1. Select numeric keys, 4 sets of siren timetable to each numeric key 1~8. Total has 32 sets.
2. Tick the box which wants to activate.
3. Input start time.
4. Input duration. How many seconds you want siren works.
5. Tick the box of weekday. The siren will not activate if the check box is not ticked.

【Daylight Saving Time】

1. Daylight Saving: Open or close this function.
2. Adjust Minute: How many minutes should advance or delay.
3. Date/Time Start: Start date and time
4. Date/Time End: End date and time



8-1-12 Advanced (HTA-810/820/830/840)

It is mainly to modify device's parameters.

Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

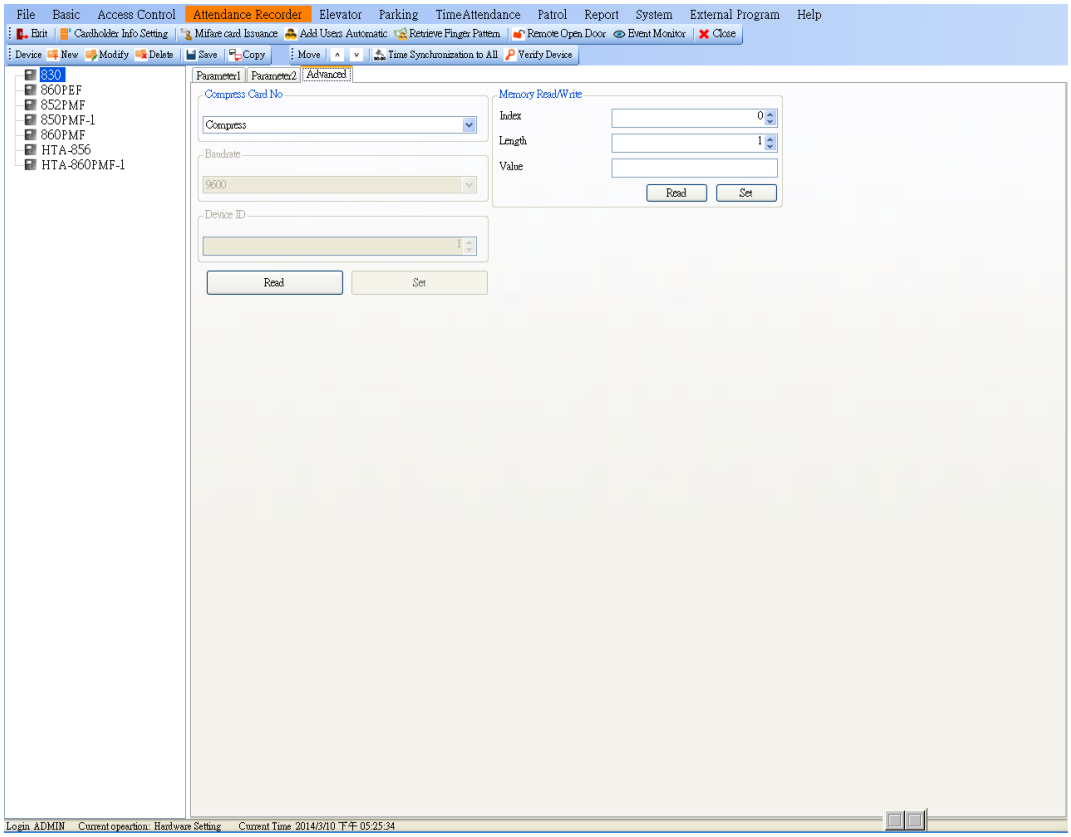
Parameter contents:

Compress Card No: Compress the card number to increase the storage capacity. Only pure numbers can be compressed in this feature.

Baud rate: Default is 9600. Please do not modify the baud rate. Otherwise, system cans not communication with HTA-810 and HTA-820)

Device ID: Set HTA-810/820 ID. Once modify ID here, the ID in the [Hardware setting] will be modified at the same time.

Memory Read/Write: Change memory value from specified block to change controller actions. Please contact with service for details operation. Please do not modify data arbitrary. Therefore controller will be abnormal.



8-1-13 Parameter 1 (HTA-850/852)

It is mainly to modify device's parameters.
Operation Steps：

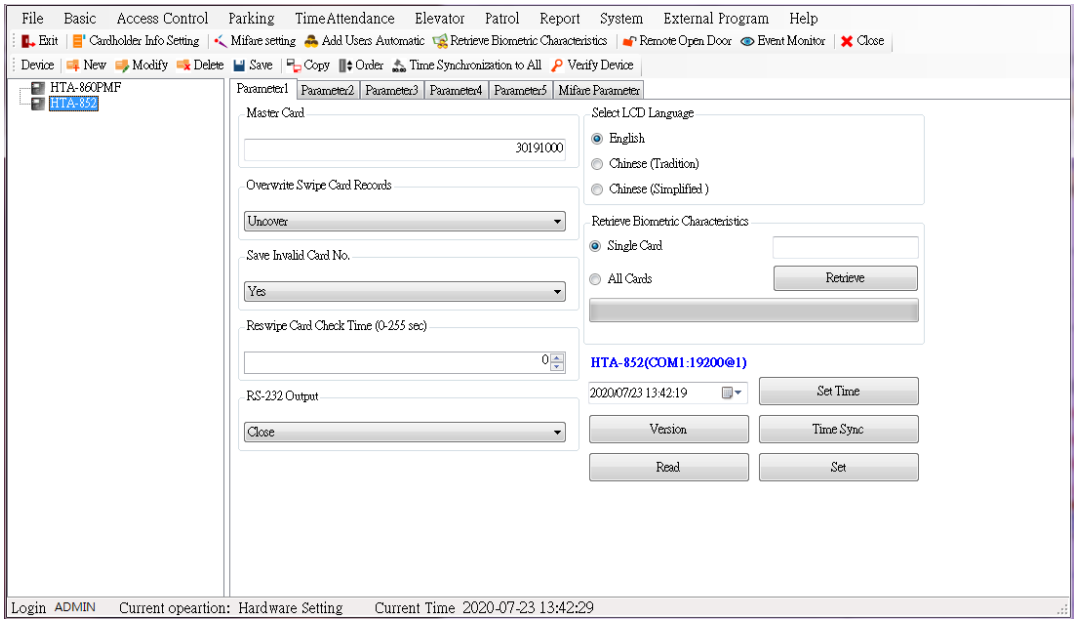
1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents：

- Master Card: Required to enter command mode of controller (Default is 30191000). Kindly refer to hardware manual.
- Overwrite Swipe Card Records: Able select do not record (NO), overwrite records (YES) or do not cover old records (Uncover).
  - When select NO: System will not save any swipe card record.
  - When select YES: System will save swipe card records. Once the storage limit is exceeded, system will overwrite from beginning.
  - When select Uncover: System will save swipe card records, once the storage limit is exceeded, LCD screen will display FULL message and stop to saving swipe card record. Kindly retrieve records ASAP.
- Save Invalid Card No: Store or not store invalid card records selection.
- Re-swipe Card Check Time (0-255 sec): This is the time for checking the card repeatedly. Default is 0. As the time is set, when swiping the card more than once within a preset time, system will not record the event and make beep sound.
- RS-232 Device Output: Connect with LCD display, DVR or printer.
- Select LCD Language:
  English: LCD displays English
  Tradition Chinese: LCD displays Tradition Chinese
  Simplified Chinese: LCD displays Simplified Chinese
- Retrieve Biometric Characteristics : Retrieve biometric characteristics from device to database.(For biometric characteristics device only):
  Single Card: Retrieve single card biometric characteristics. Input card number first then press [Retrieve].
  All Cards: Press [Retrieve] to retrieve all card biometric characteristics. It is highly recommend retrieving all card biometric characteristics at first time. After that, user can retrieve biometric characteristics singly to avoid long time retrieval. (System

will take 4~5 minds for 200 biometric characteristics)

NOTE: Please retrieve all biometric characteristics within no users use machine, especial avoid office hours lest retrieval failed. If retrieval failed, system will have a log file in C:\Program files\HAMS-20\Logs\date.log. Operator may know which re-trieval is failed and retrieve it again by "Single Card".



8-1-14 Parameter 2 (HTA-850/852)

It is mainly to modify device status.

Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents：

【Card No Status】

- Digits Only: Tick the check box signifies all card number should be digits. If card number with English letters, LCD will display error message after card swiped. If operators do not set how many digits should check, all number should be digits.
- Card No Length: Length of card number should be digits.

【Keypad Setup】

- Enable Number Key: Tick the check box to enable number key.
- Enable Function Key: Tick the check box to enable function keys F1~F4.
- Keypad with Backlight

  Auto: When swipe card or press the keypad, the keypad backlight will activate automatic.

  Open: Always activate of keypad backlight.

  Close: Always inactivate of keypad backlight.

【Audio Status】

- Audio Prompt：It is allow operator to adjust the voice volume. (Only applicable below HTA-852V1.X)
- Enable Audio Prompt: Tick the check box to enable Audio Prompt. (Biometric characteristics machine only)
- Siren Output: Tick the check box to enable siren output.

【Retrieve valid code】

- Index: The index digit of retrieve valid card number.
- Length: How many digits you want to retrieve of valid card no.

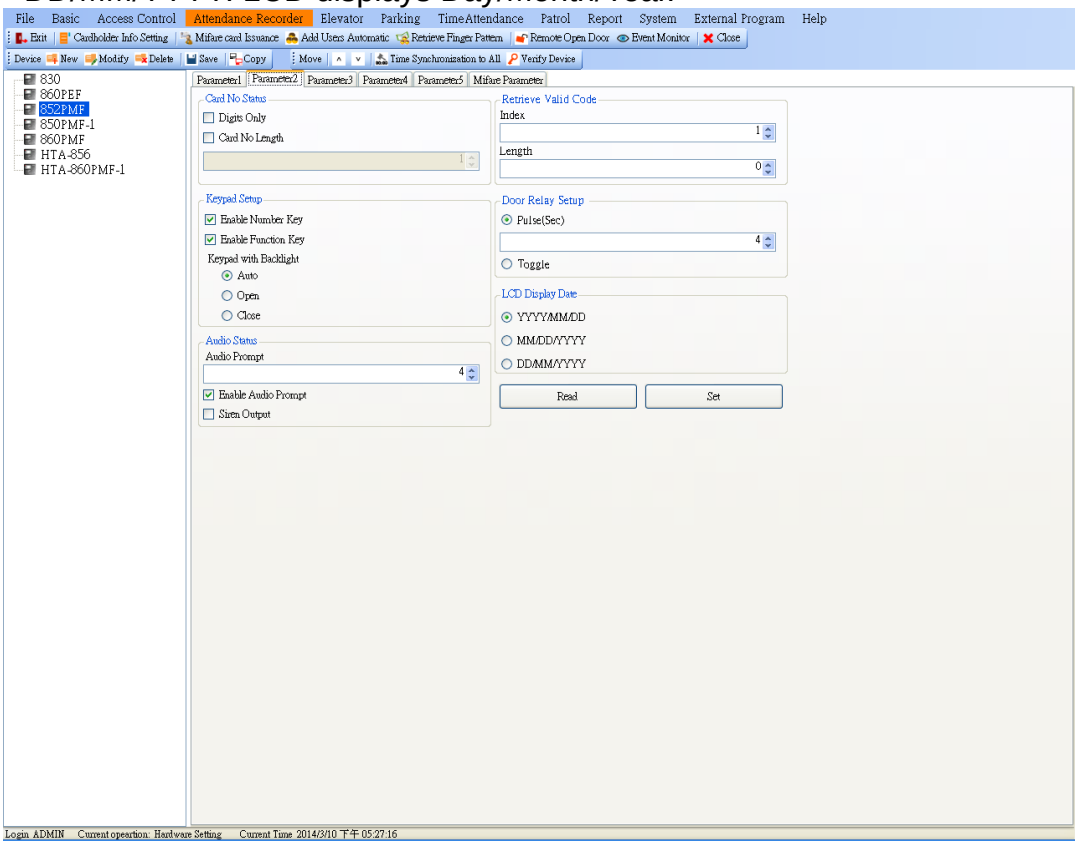
  Ex: Card NO. is 1234567890, valid code index is 2, length is 6. The retrieve valid card no. will be 234567. Please note, in cardholder information, the card no. should be 234567 too, otherwise the door will not open.

【Door Relay Setup】

- Pulse (Second): Door relay will return to original position within the time user set. Default is 4 seconds.
- Toggle: Door relay will not return to original position until door relay has been activated again.

【LCD Display Date】

- YYYY/MM/DD: LCD displays Year/Month/Day.
- MM/DD/YYYY: LCD displays Month/Day/Year.
- DD/MM/YYYY: LCD displays Day/Month/Year.



8-1-15 Parameter 3 (HTA-850/852)

It is mainly to set what duty shift you want to display in the device.
Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents：

【LCD Status Setup】

- LCD Display Message: Tick the check box, user-define message will be displayed.
- Backlight Mode

  Auto: When swipe card or press the keypad, the LCD backlight will activate automatic.

  Open: Always activate of LCD backlight.

  Close: Always inactivate of LCD backlight.

【Duty Timetable】

- Display Duty Shift: Provide 9 sets duty shift name. The 7th set displays “Ready” when controller in the Ready Status. And 8th and 9th set is user-define. Need tick LCD Display Message function, then input messages.
- Duty Time Switch Table: Controller will switch duty shift and display on LCD base on this setting.

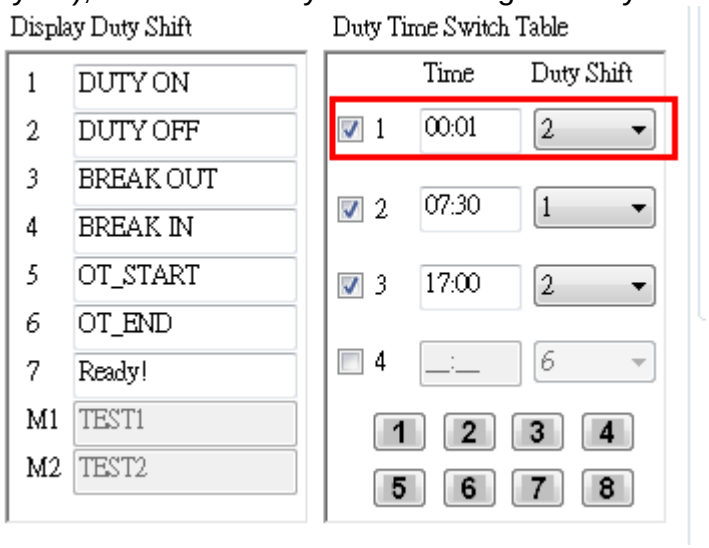
  Operation Steps：

  1. Select numeric keys, 4 sets of duty shift time schedule to each numeric key 1~8. Total has 32 sets.
  2. Tick the box which wants to display on the LCD.
  3. Input start time. Like 0800.
  4. Input duty shift code. Please input duty description in “Display Duty Shift Time “worksheet.

  Note: It will need to set up the duty time in the area, when you synchronize the time. Otherwise, it will go back to default duty-on if the device checks the setting without duty time.

  For instance, the normal duty time is 7:30~17:00. If you are looking for synchronization at 7:00, you need to set up another duty time from 00:00 to 07:29. After synchronization finishes, devices will check whether they have duty time or not

(00:01 will be duty off), the default duty-on will change to duty-off.



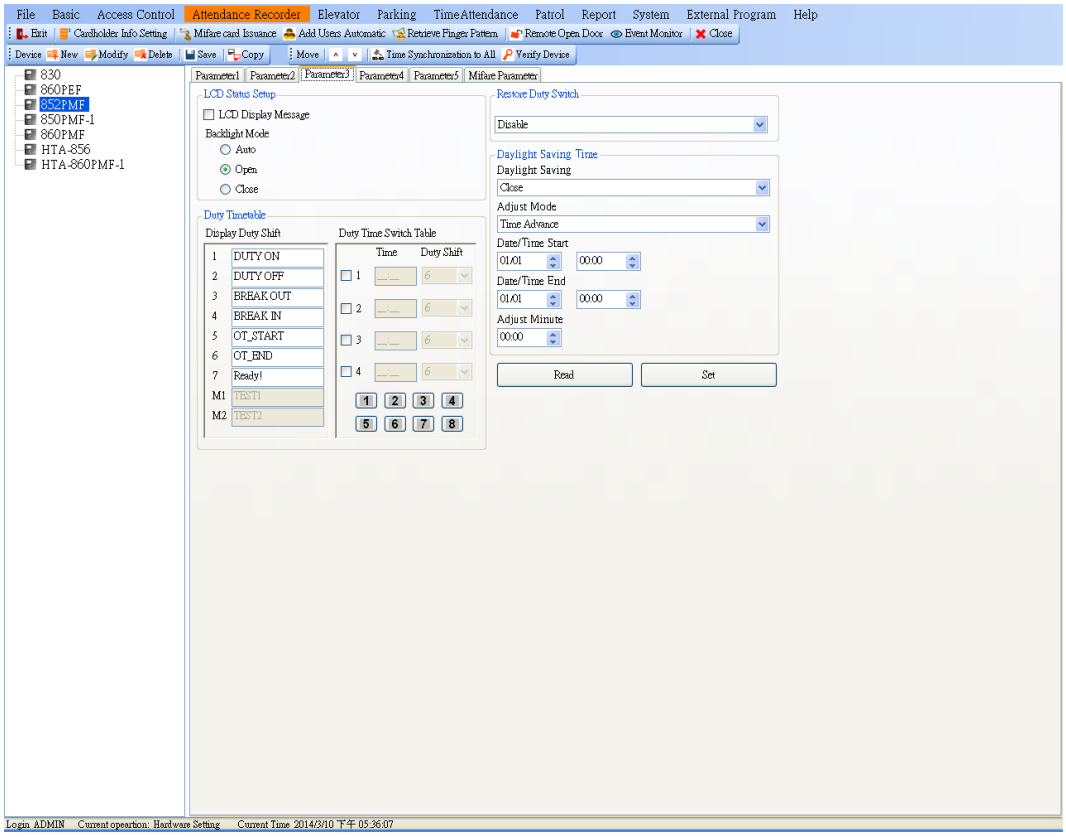
【Restore Duty Switch】

When change duty shift manual, if system need back to current duty shift.

- Enable: System will back to current duty shift automatically.
- Disable: System will stand in manual duty shift.

【Daylight Saving Time】

- Daylight Saving: Open or close this function.
- Adjust Mode: Time advance or delay.
- Date/Time Start: Start date and time
- Date/Time End: End date and time
- Adjust Minute: How many minutes should advance or delay.


File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Move Time Synchronization to All Verify Device
830
860PEF
852PMF
850PMF-1
860PMF
HTA-856
HTA-860PMF-1
Parameter1 Parameter2 Parameter3 Parameter4 Parameter5 Mifare Parameter
LCD Status Setup
LCD Display Message
Backlight Mode
Auto
Open
Close
Duty Timetable
Display Duty Shift
1 DUTY ON
2 DUTY OFF
3 BREAK OUT
4 BREAK IN
5 OT_START
6 OT_END
7 Ready!
M1 TEST1
M2 TEST2
Duty Time Switch Table
Time Duty Shift
Restore Duty Switch
Disable
Daylight Saving Time
Daylight Saving
Close
Adjust Mode
Time Advance
Date/Time Start
01.01 00:00
Date/Time End
01.01 00:00
Adjust Minute
00:00
Read
Set
Login ADMIN Current operation: Hardware Setting Current Time 2014/3/10 下午 05:36:07

8-1-16 Parameter 4 (HTA-850/852)

It is mainly to modify device parameters.

Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents：

【Error Procedure】

- Permit Error Times: Allowed error times of re-swiping card.
- Buzzer Frequency: When error times are over preset times, controller activate buzzer frequency.
- Disarm Alarm Mode: Select to deactivate the alarm by any valid card or Master card.
- Alarm Action: Enable or disable alarm action.

【Alarm Relay Setup】

- Pulse (Second): It will return to original position within the time you set.
- Toggle: Alarm relay will not return to original position until alarm relay has been activated again.
- Latch: It will not return to original position until alarm release code has been entered.

【Door Relay Action When Re-swipe Card】: When re-swipe card, if door relay activated.

【Add 00 in front of Card NO】(Only support Mifare Model)

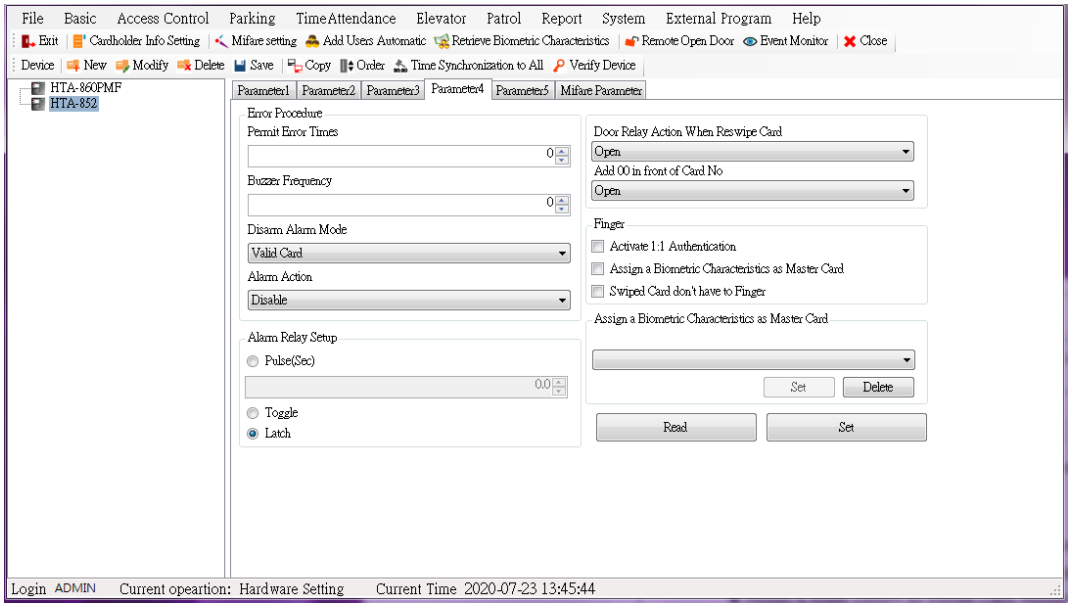
System will read Wiegand code back and add 00 in front of card number in the report.

【Finger】

- Activate 1:1 Authentication: Default is 1: N identification, user access by f biometric characteristics only. When tick the box, user need swipe card and put biometric characteristics for access.
- Assign a Biometric Characteristics as Master Card: Assign a biometric characteristics as master card/code.
- Swiped Cards don’t have to Finger: When tick the check box, it signifies all cardholders may access by card only. System will not delete biometric characteristics from device after downloading authorizations. To restore biometric characteristics

access function, please un-tick the check box. (For biometric characteristics device only).

【Assign a biometric characteristics as Master Card】: After retrieve biometric characteristics templates to HAMS-20 database, user may select a cardholder and assign his/her biometric characteristics be a Master card/code. Please tick box of previous [Assign a Biometric Characteristics as Master Card] first.



8-1-17 Parameter 5 (HTA-850/852)

It is mainly to modify siren time schedule.

Operation Steps：

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] then change will be in effect.

Parameter contents：

【Siren Timetable】

Operation Steps：

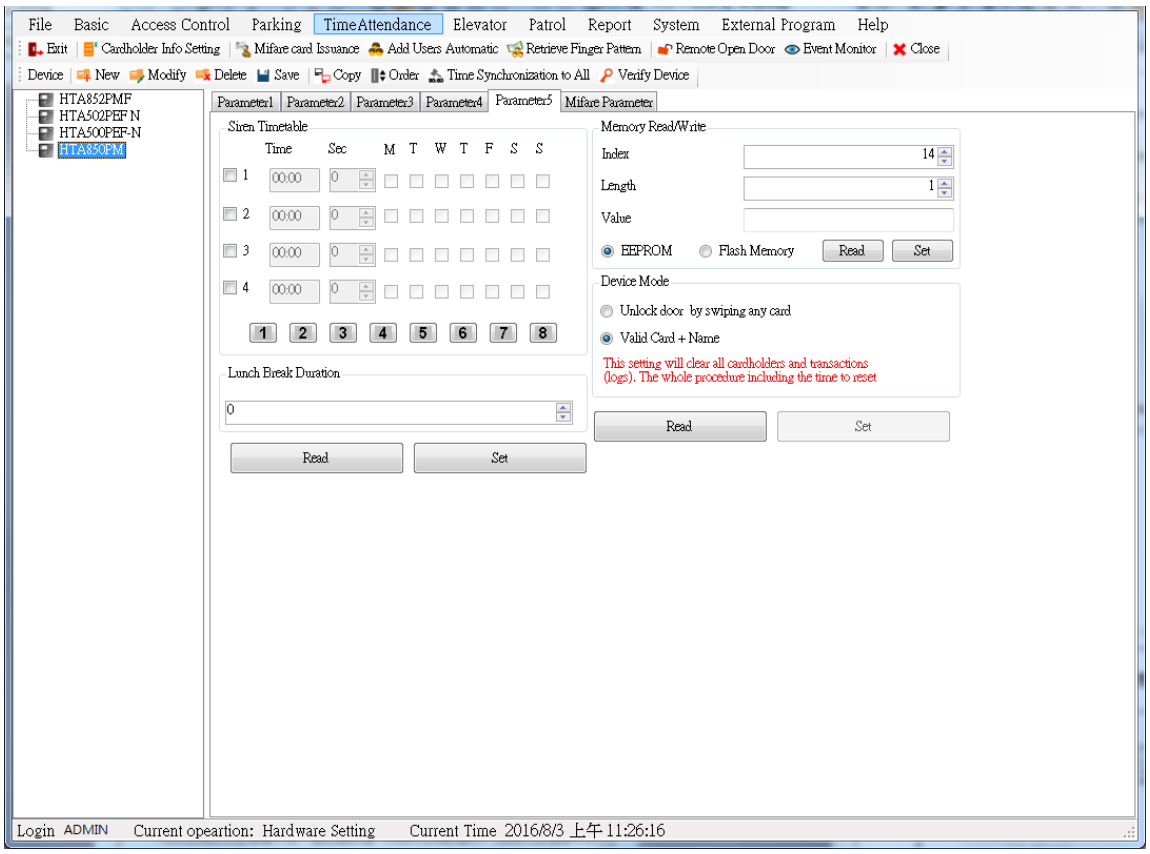
1. Select numeric keys, 4 sets of siren timetable to each numeric key 1~8. Total has 32 sets.
2. Tick the box which wants to activate.
3. Input start time.
4. Input duration. How many seconds you want siren works.
5. Tick the box of weekday. The siren will not activate if the check box is not ticked.

【Lunch Break Duration】

This function is reserved.

【Memory Read/Write】

Change memory value from specified block to change controller actions. Please contact with service for details operation. Please do not modify data arbitrary. Therefore controller will be abnormal.


File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Order Time Synchronization to All Verify Device
HTA852PMF
HTA502PEF N
HTA500PEF-N
HTA850PM
Parameter1 Parameter2 Parameter3 Parameter4 Parameter5 Mifare Parameter
Siren Timetable
Time Sec M T W T F S S
1 00:00 0
2 00:00 0
3 00:00 0
4 00:00 0
1 2 3 4 5 6 7 8
Lunch Break Duration
0
Read Set
Memory Read/Write
Index 14
Length 1
Value
EEPROM Flash Memory Read Set
Device Mode
Unlock door by swiping any card
Valid Card + Name
This setting will clear all cardholders and transactions (logs). The whole procedure including the time to reset
Read Set
Login ADMIN Current opeartion: Hardware Setting Current Time 2016/8/3 上午 11:26:16

8-1-18 Mifare Parameter (HTA-850PM/HTA-852PMF)

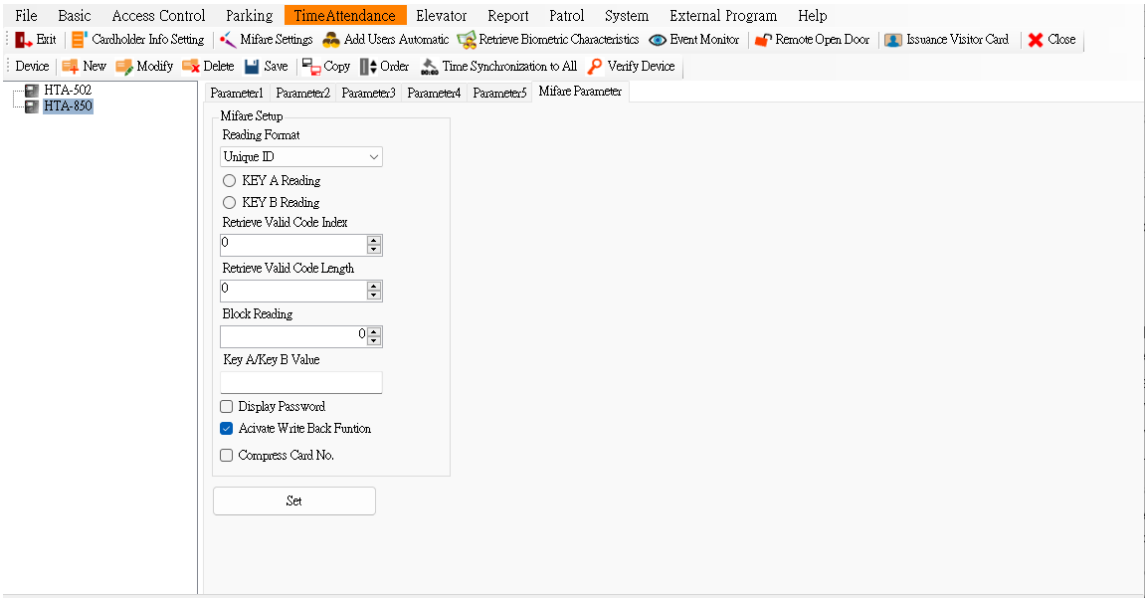
After modify values, please remember to click [Set] then change will be in effect.

【Mifare Setup】

Allow the user to set the reading unique ID or block of Mifare cards.

Operation Steps：

- Reading Format: Unique ID or Block selection. Allow user read serial number or Block. When Unique ID is selected, please ignore follow settings.
- Key A Reading: Login by Key A value.
- Key B Reading: Login by Key B value.
- Retrieve Valid Code Index: The index digit of retrieve valid card number.
- Retrieve Valid Code Length: how many digits you want to retrieve of valid card number. This parameter works hand in hand with “Retrieve valid code index”.
- Block Reading: Assigned read allotted block.
- Key A/Key B Value: The value of allotted block
- Display Password: When tick the box, Key A/Key B ‘s password will display on plain code.
- Activate Write Back Function: Controller must have “Write-back function”. Tick the check box to activate this function. (HTA-850PM only)
- Compress Card No.：Default is uncompressing card number. If need compress card number, please tick the check box.



8-1-19 Parameter 1 (HTA-500/502)

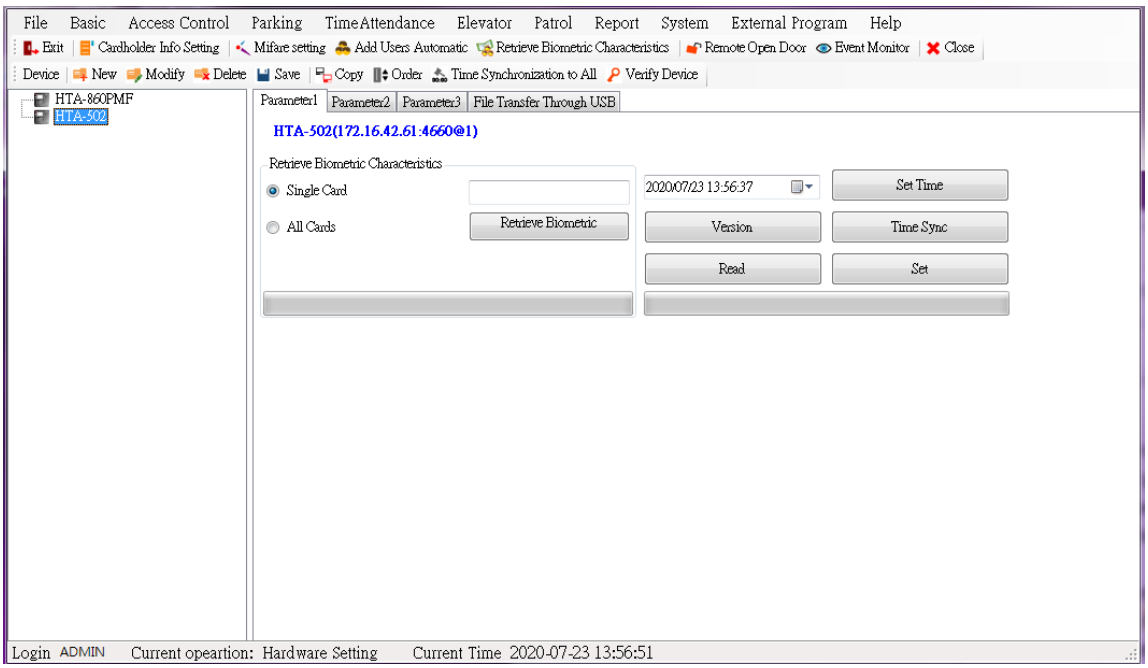
It is mainly to modify recorder’s status.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] to save changes

Parameter contents:

- Retrieve Biometric Characteristics : Retrieve biometric characteristics from device to database.(For biometric characteristics device only):
  Single Card: Retrieve single card's biometric characteristics. Input card number first then press [Retrieve Biometric].
  All Cards: Press [Retrieve Biometric] to retrieve all cards' biometric characteristics. It is highly recommended to retrieve all cards' biometric characteristics at first time. After that, user can retrieve single card's biometric characteristics to avoid awaiting too long. (System will take 4~5 minutes for 200 biometric characteristics)
  NOTE: Please retrieve all biometric characteristics while no users use the machine, especially Not to do it during the busy clock In/Out time to avoid the retrieval failure. If the retrieval failed, system will have a log file in C:\Program files\HAMS-20\Logs\date.log to record which cards failed during biometric characteristics retrieval. Operator can retrieve it again by "Single Card" accordingly.
- Set Time: Input date and time by user.
- Time Sync: Synchronize time with PC lock.
- Version: After click this button, system will display current ROM version of HTA-500/502.


File Basic Access Control Parking TimeAttendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare setting Add Users Automatic Retrieve Biometric Characteristics Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Order Time Synchronization to All Verify Device
HTA-860PMF
HTA-502
Parameter1 Parameter2 Parameter3 File Transfer Through USB
HTA-502(172.16.42.61:4660@1)
Retrieve Biometric Characteristics
Single Card
All Cards
Retrieve Biometric
2020/07/23 13:56:37
Set Time
Version
Time Sync
Read
Set
Login ADMIN Current opeartion: Hardware Setting Current Time 2020-07-23 13:56:51

8-1-20 Parameter 2 (HTA-500/502)

It is mainly to modify recorder's status.

Operation Steps:

1. Select the device on the left side.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] to save changes.

Parameter contents:

Time Attendance Parameters

- Master Card: The card number to enter command mode of controller (Default is 30191000). Kindly refer to hardware manual.
- Overwrite Card Swipe Records: To select whether to overwrite the old card swipe records if the memory is full
- Restore Duty Switch: When operators manually change duty shift, whether the device needs to return to current duty shift

  Yes: System will stay at manually changed duty shift.

  No: System will return to current duty shift automatically.

Door I/O Parameters

- Unlock Door Relay Action Time：The action duration of door relay. Default is 4 seconds.
- Exit Button Status：Short Circuit Action or Open Circuit Action for choice. Default is Short Circuit Action.
- Door Sensor Status：The contact status of the door opening Sensor, which are N.O, N.C and Disable.

UI Parameters

- Select LCD Language:

  English: LCD displays in English

  Traditional Chinese: LCD displays in Traditional Chinese

  Simplified Chinese: LCD displays in Simplified Chinese
- Date format displays on LCD

  YYYY/MM/DD: LCD displays Year/Month/Day.

  MM/DD/YYYY: LCD displays Month/Day/Year.

  DD/MM/YYYY: LCD displays Day/Month/Year.

  YYYY-MM-DD：LCD displays Year-Month-Day.

MM-DD-YY：LCD displays Month-Day-Year.

DD-MM-YY：LCD displays Day-Month-Year.

- Keypad Setup

  Enable Number Keys: Tick the check box to enable number keys.

  Enable Function Keys: Tick the check box to enable function keys F1~F6.

- LCD Status Setup

  Message Stay Duration：How long the message stays on LCD。

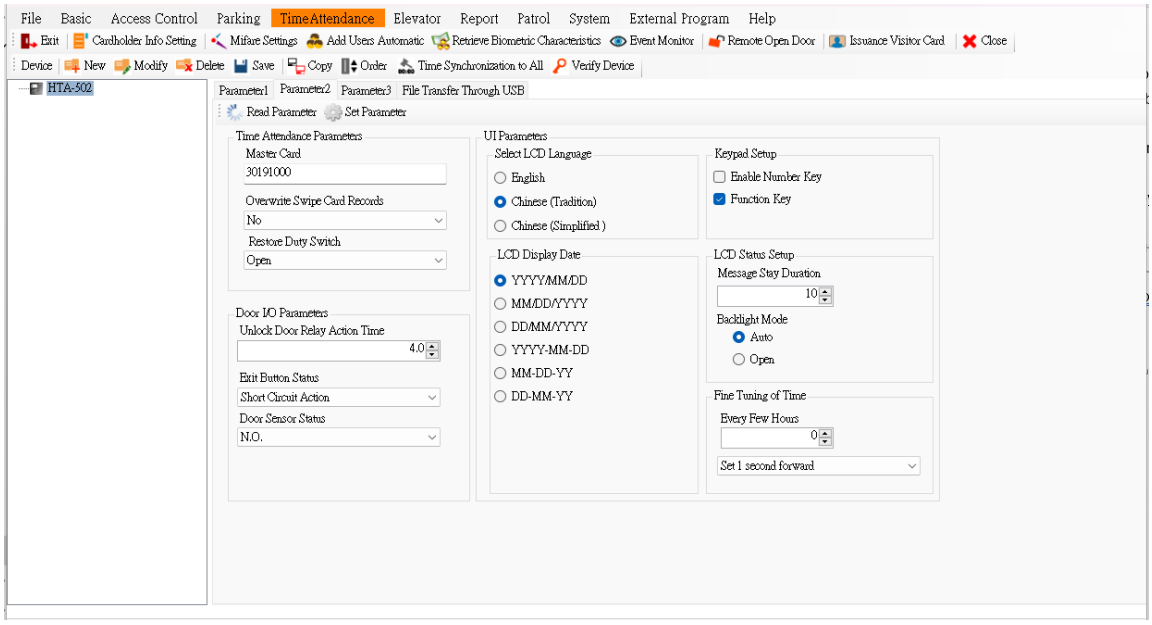
  Backlight Mode:

  Auto: When swipe card or press the keypad, the LCD backlight will be activated automatically.

  Open: The LCD backlight. is always on

- Fine Tuning of Time: RTC adjustment.

  Every Few Hours: How many hours would like to be set 1 second forward or 1 second backward.



8-1-21 Parameter 3 (HTA-500/502)

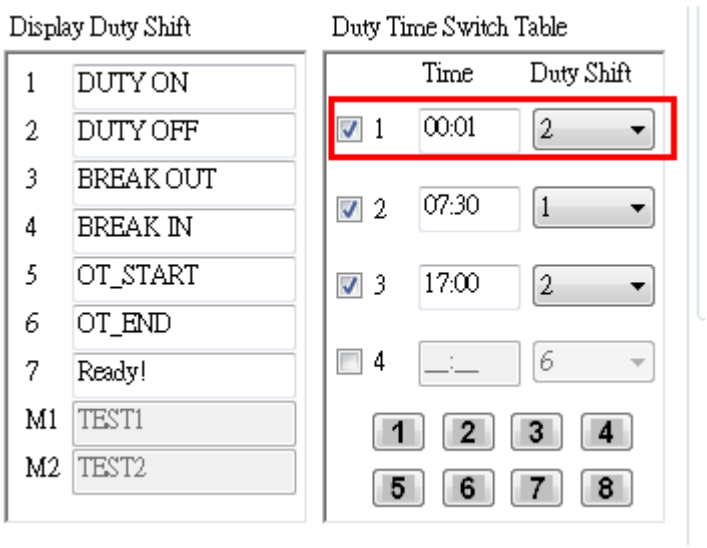
It is mainly to modify duty shift status.

Operation Steps:

1. Select the device on the left side to modify.
2. Click [Read] to get back current setting values of device.
3. Modify the parameter values.
4. After modify values, please remember to click [Set] to save changes.

[Duty Timetable]

- Time: Controller will switch duty shift and display on LCD base on this setting.
  Operation Steps:
  1. Select numeric keys, 8 sets of duty shift time schedule to each numeric key 1~4. The total of 32 sets are available
  2. Tick the box which wants to display on the LCD.
  3. Input start time.
- Duty Shift: Provide 8 duty-shift names which can be displayed on LCD. The names on 7th, 8th fields are self-defined
  Note: It will need to set up the duty time in the area, when you synchronize the time. Otherwise, it will go back to default duty-on if the device checks the setting without duty time.
  For instance, the normal duty time is 7:30~17:00. If you are looking for synchronization at 7:00, you need to set up another duty time from 00:00 to 07:29. After synchronization finishes, devices will check whether they have duty time or not (00:01 will be duty off), the default duty-on will change to duty-off.



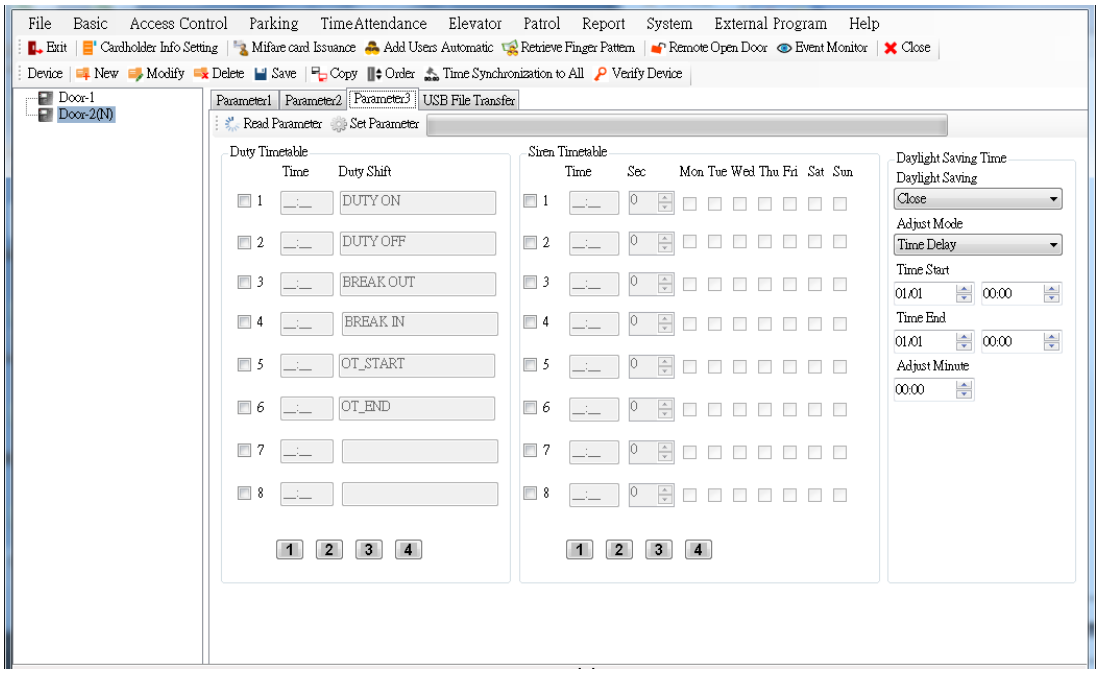
[Siren Timetable]

Operation Steps:

1. Select numeric keys, 8 sets of alarm time schedule to each numeric key 1~4.The total of 32 sets are available.
2. Tick the box to activate.
3. Input start time.
4. Input duration of siren.
5. Tick the box of the days of the week. The siren will not be activated if the checkbox is not ticked.

[Daylight Saving Time]

- Daylight Saving: Close or Open this function.
- Adjust Mode: Time advance or delay.
- Time Start: Start time and date
- Time End: End time and date
- Adjust Minute: How many minutes would like to be set forward or backward.

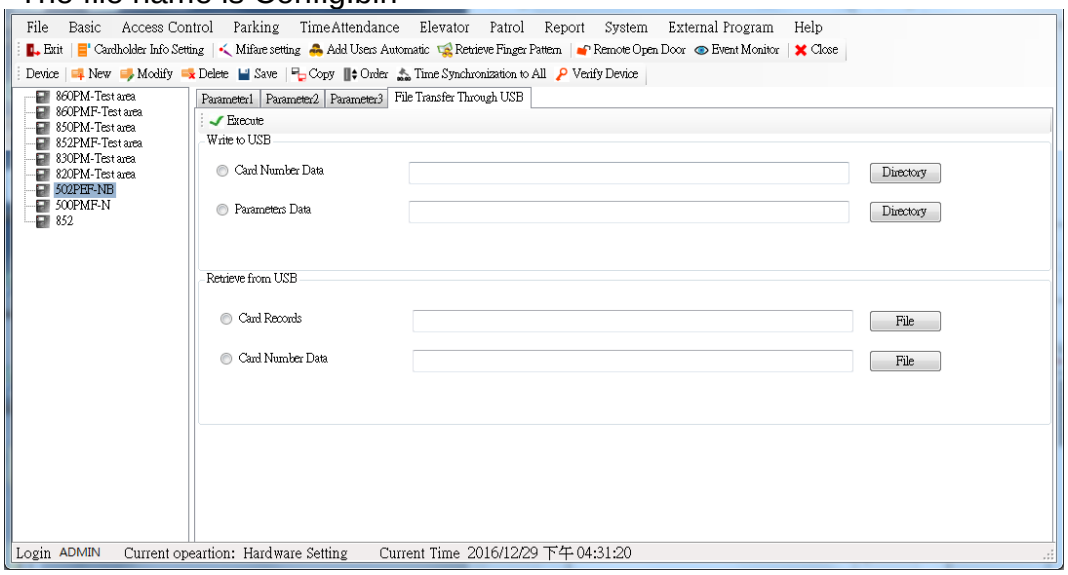


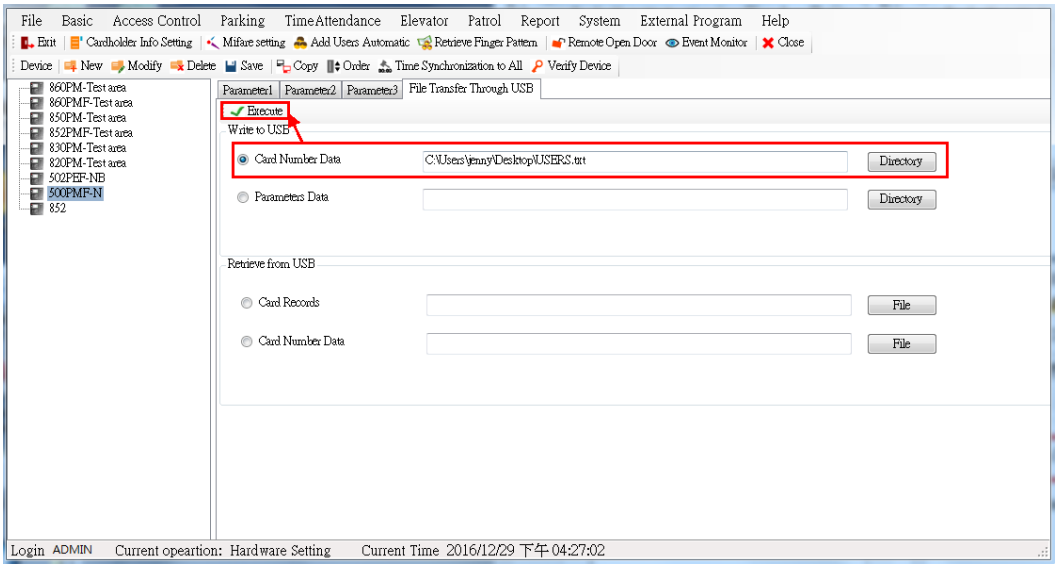
8-1-22 USB File Transfer (HTA-500/502)

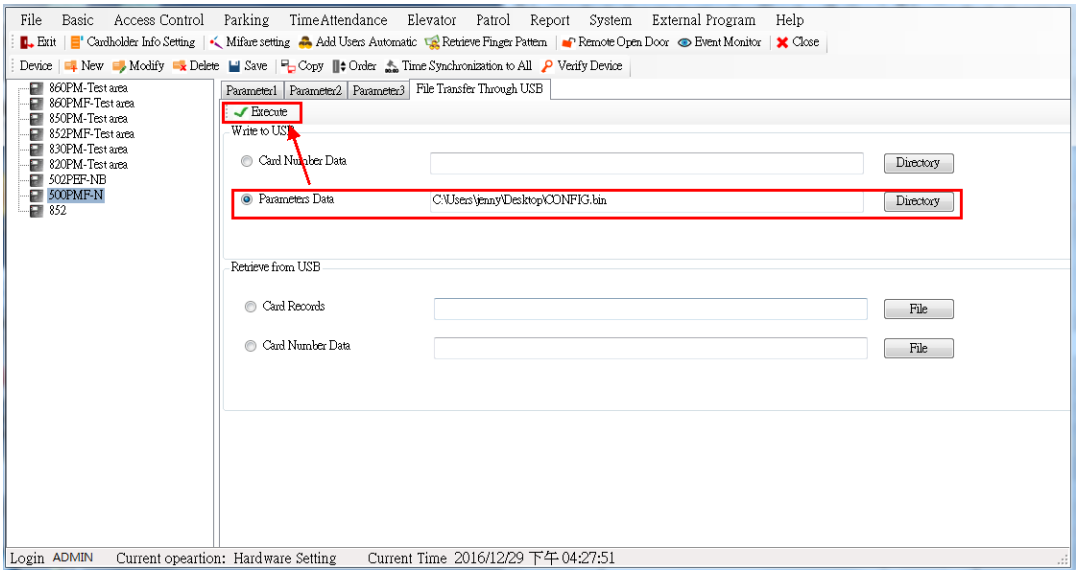
Import / Export data to Computer / Flash Pen Drive

[Write to USB] Export Data to Flash Pen Drive

- Card Number Data：Export Access Authority to Flash Pen Drive from computer. The file name is USER.txt
- Parameters Data：Save controllers' parameters to Flash Pen Drive from computer. The file name is Config.bin

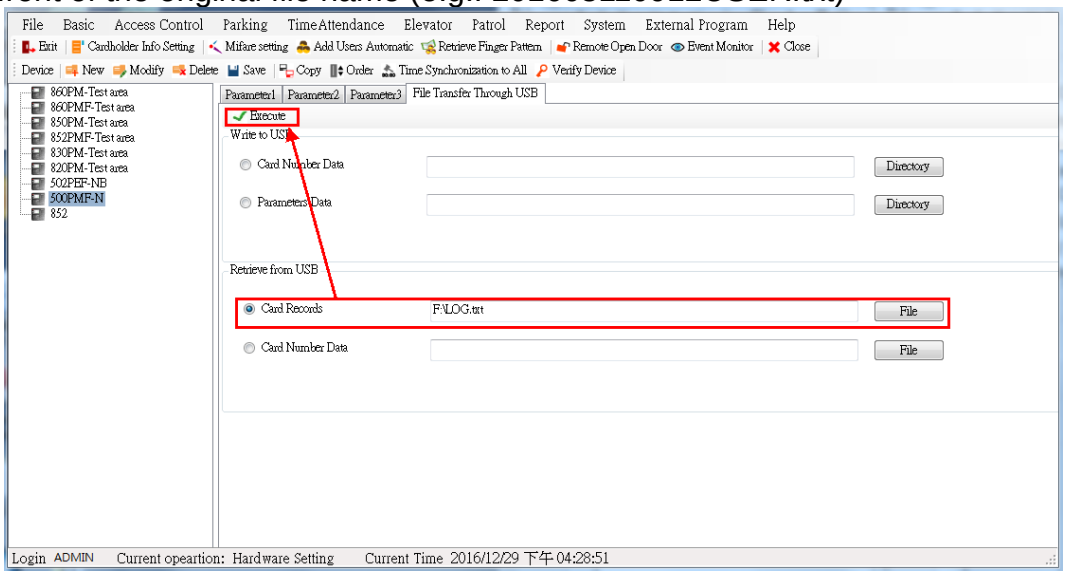


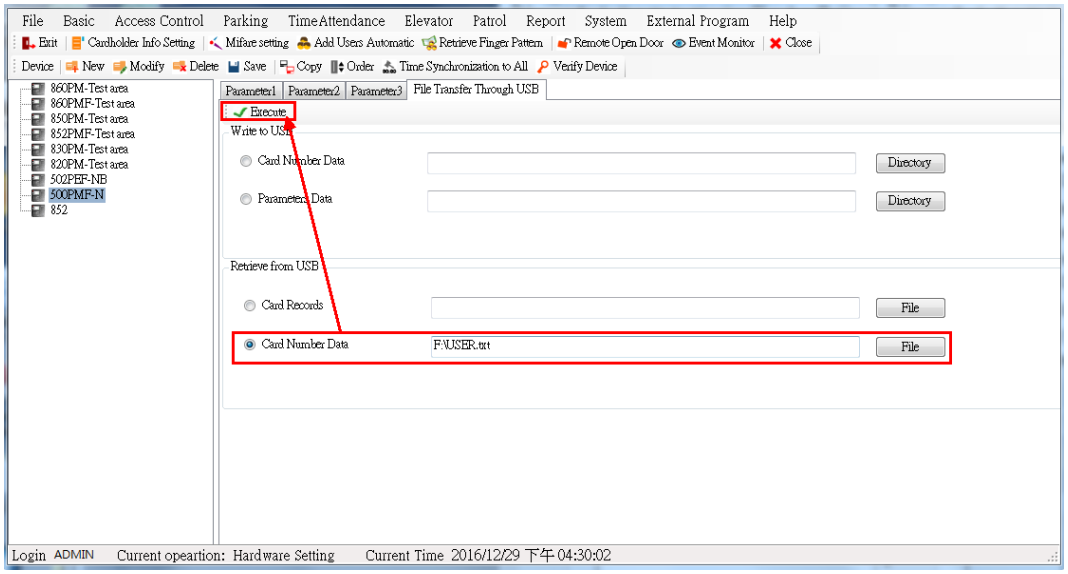




[Retrieve form USB] Import data to Computer from Flash Pen Drive

- Card Records：Import Card Records with the file name LOG.txt in the flash pen drive to computer's database and make a backup file to save to USB directory under HAMS (While save back to USB directory, please add the year/month/date/hour /minute in front of the original file name (e.g.: 201603110912LOG.txt)
- Card Number Data：Import access authority in the flash pen drive with the file name USER.txt to database and make a backup file to save to USB directory under HAMS (While save back to USB directory, please add the year/month/date/hour/minute in front of the original file name (e.g.: 201603110912USER.txt)




File Basic Access Control Parking Time Attendance Elevator Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare setting Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Device New Modify Delete Save Copy Order Time Synchronization to All Verify Device
860PM-Test area
860PMF-Test area
850PM-Test area
852PMF-Test area
830PM-Test area
820PM-Test area
502PEF-NB
500PMF-N
852
Parameter1 Parameter2 Parameter3 File Transfer Through USB
Execute
Write to USB
Card Number Data
Directory
Parameters Data
Directory
Retrieve from USB
Card Records
File
Card Number Data
F:\USER.txt
File
Login ADMIN Current opeartion: Hardware Setting Current Time 2016/12/29 下午 04:30:02

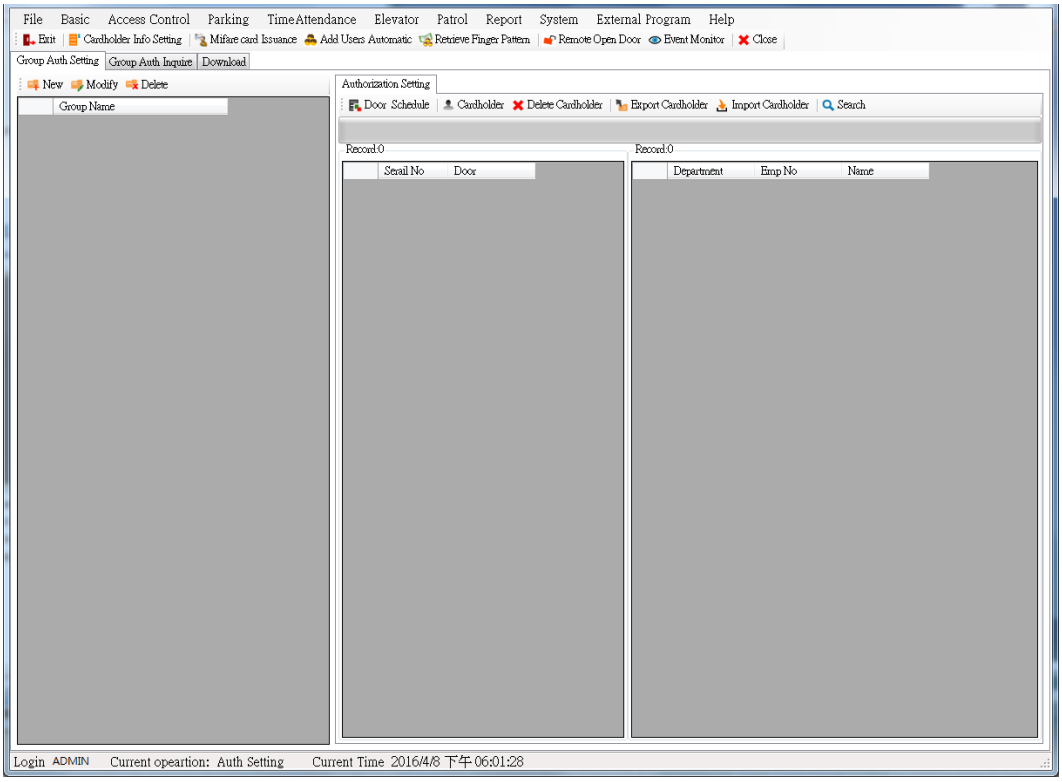
8-2 Auth Setting

8-2-1 Group Authorization Setting

It is mainly to create device groups and assign user authorization.

Operation Steps:

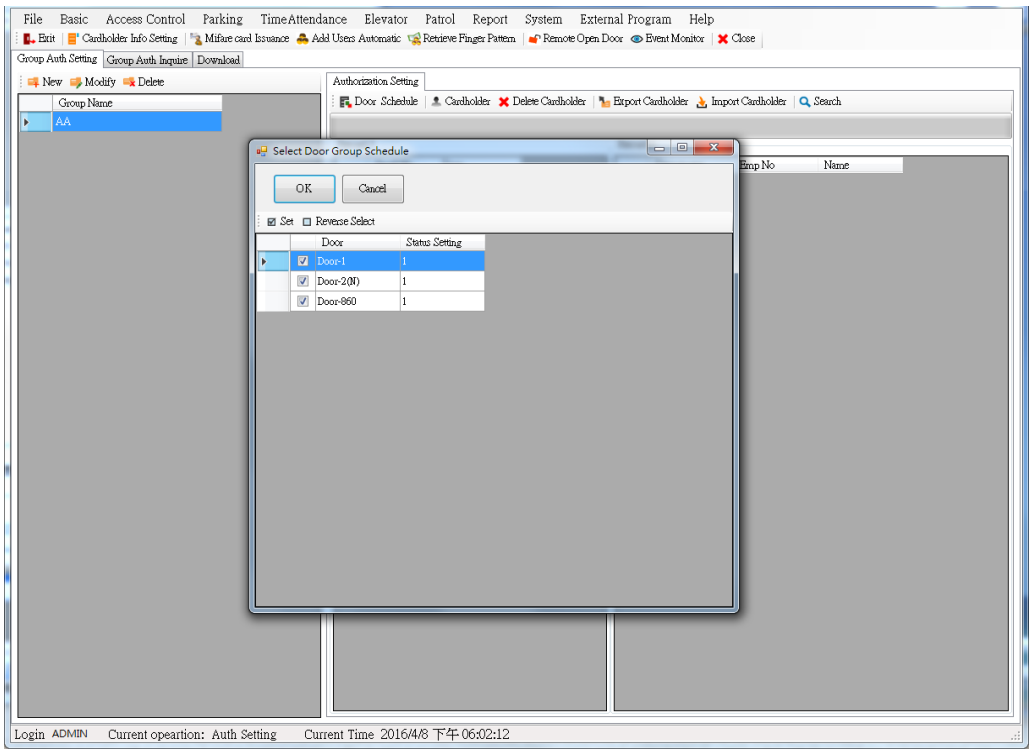
1. Click [New].
2. Input group name.
3. Click [Save] to save the setting.

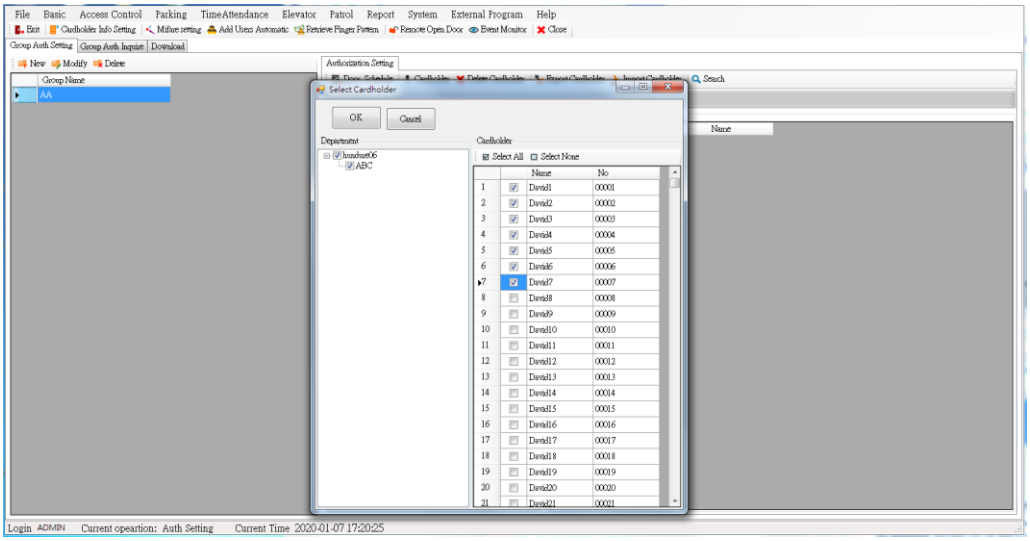


4. Go to [Door Schedule]. Tick controllers which you want to group.

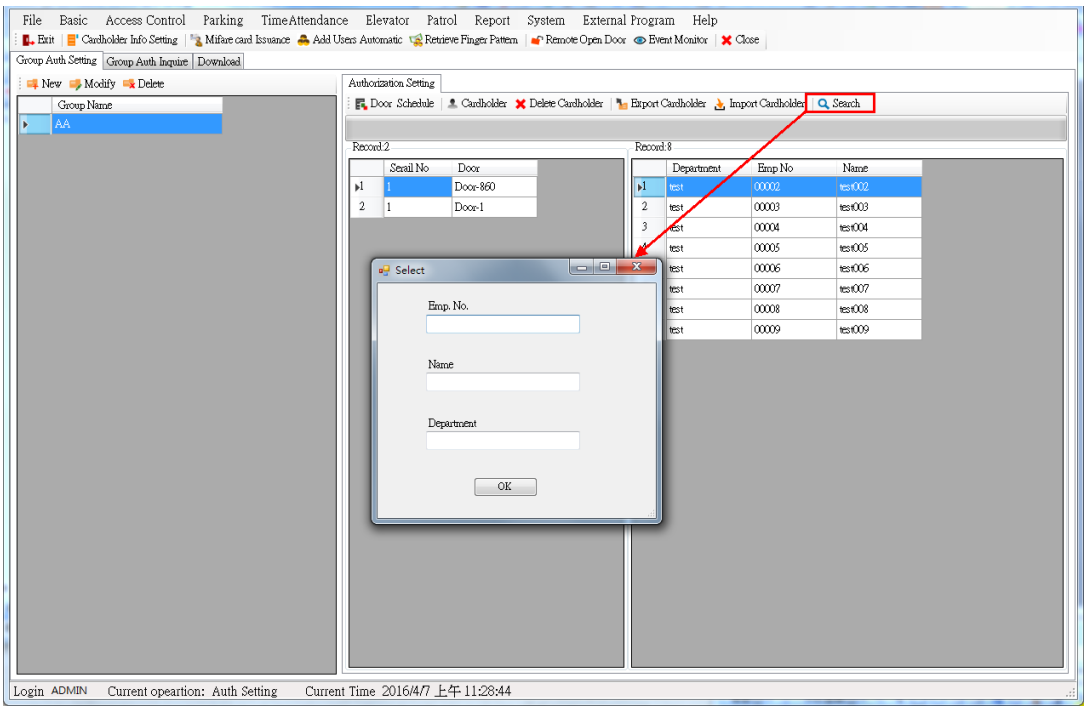
   Hint: Speedy Selection: Press CTRL key and select controllers by mouse or press SHIFT key and select controllers successively by mouse.

5. Click [OK]. When read “Progress Completed” message and then press [OK] again.





6. Go to [Cardholder]. Tick the department then you will read cardholder list which belong the department. And then you can start to tick the cardholders.
7. Click [OK] to save the setting. When read “Progress Completed” message and then press [OK] again to complete the setting. If want to delete the selection, just select the cardholder and press [Delete].
8. Able to use "Search" function according to the types of search criteria, like Emp. No, Name or Department.



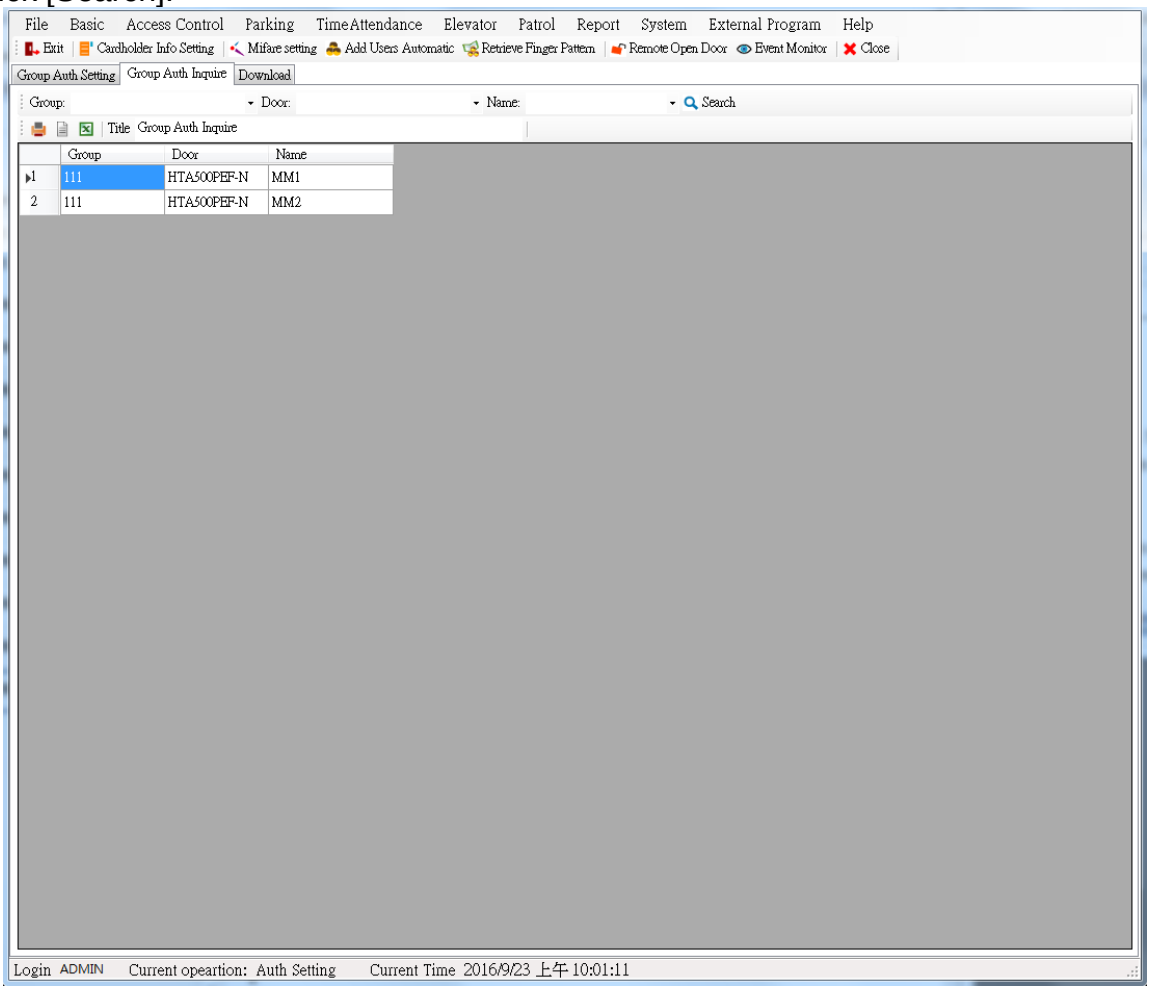
After setting completed, system also allows users to click [Export Cardholder] to produce a txt file base on the setting. The file only includes cardholder name and authority by department. This file may import to system and use for other group authorization.

8-2-2 Group Authorization Inquire

Enquire user's authorization. Specify the range according to Group, door and User name. Report provides print function and can be converted to TXT or XLS format for other application.

Operation Steps:

1. Check dynamic drop-down menu, you will read group, door, cardholder's name and time schedule selection is reserved.
2. Click [Search].

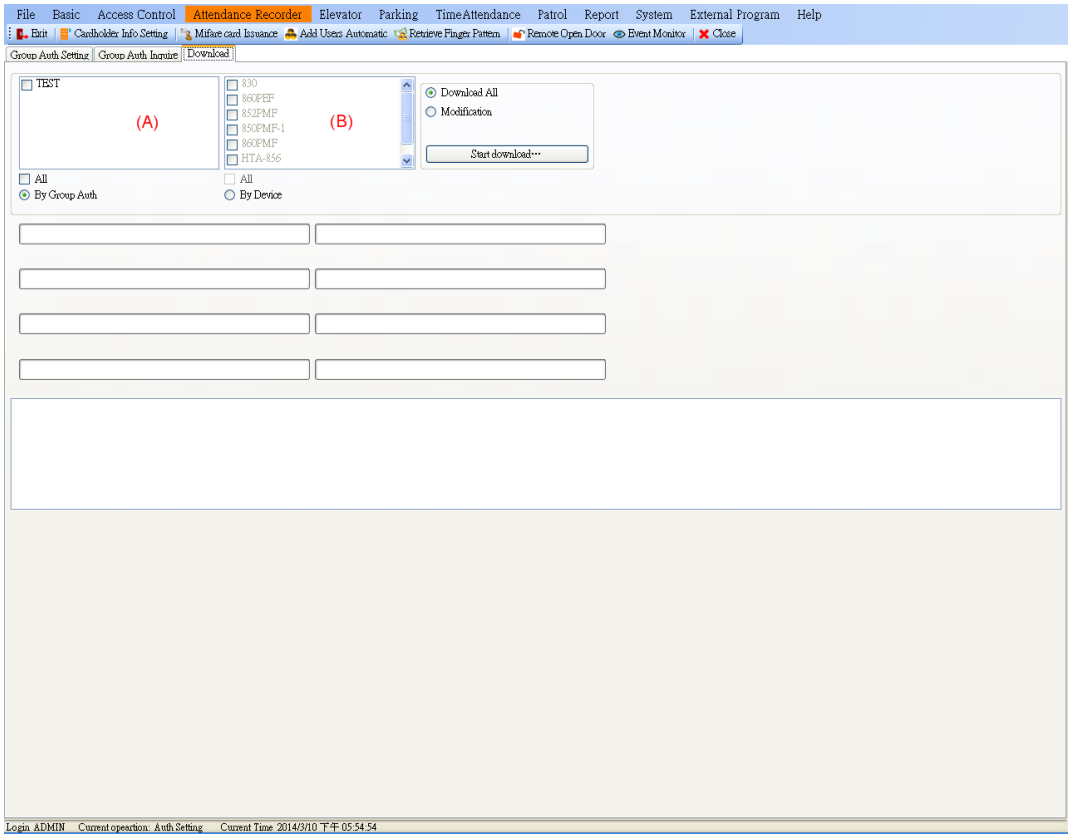


8-2-3 Download

It is mainly to download users' authorizations to device.

Operation Steps:

1. There are two download methods. Tick "By Group Auth" or "By Device".
2. Select the Groups or devices which you want to download.
3. Download Type:
   - Download All: Download all users' information and authorizations.
   - Modification: Download modified users' information and authorizations.
4. Click [Start Download] to start the download.



8-3 Event Monitor

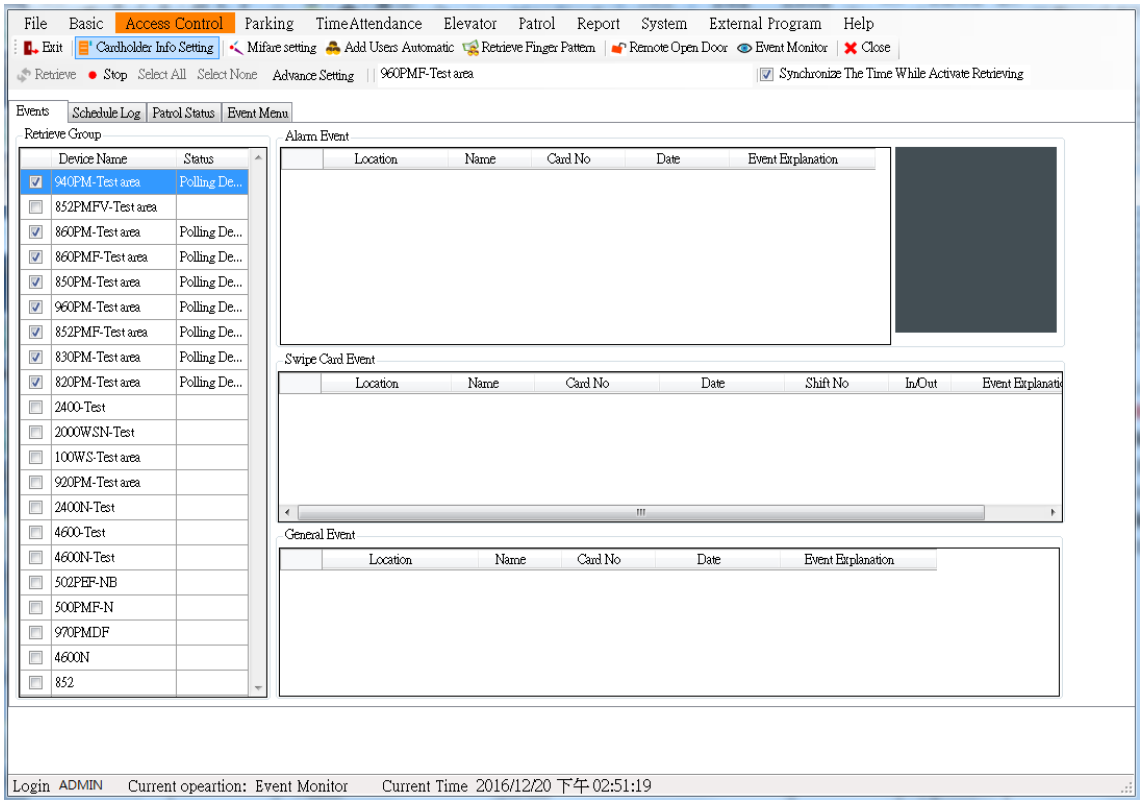
It is mainly to monitor swipe card events or device actions in real time.

Operation Steps:

1. Tick devices which you want to retrieve events. You may click [Select All]、[Select None]、[Restore] for quickly selection. (System will memorize preceding setting, when click [Restore], system will return to previous selection.)
2. Click [Retrieve] to retrieve the events.

   Click [Stop Retrieve] then may exit retrieval function.

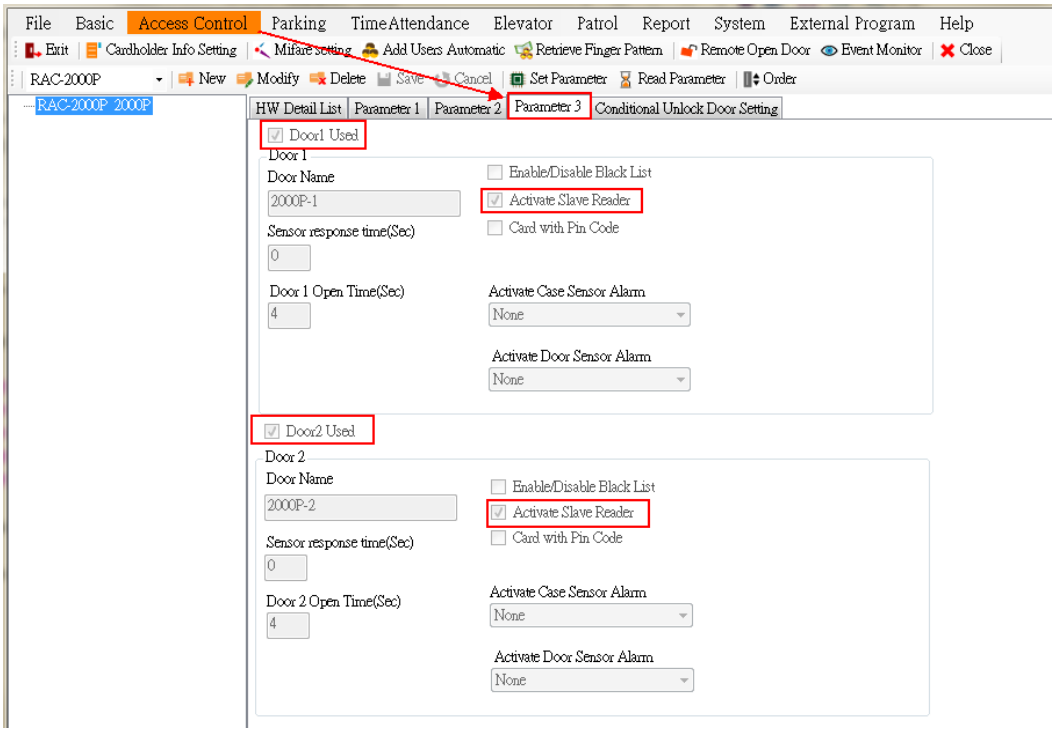
   - Synchronize The Time While Activate Retrieving: Do the time synchronization one time while it start retrieving, but not do it anymore after that (the default has ticked the checkbox. This function are just for those devices which are selected on the "Time Sync" function to go for a time calibration.)
   - Events: Display current retrieval.
   - Schedule Log: Allow the users view schedule execute status. This function works with “Chapter 11-2 Schedule Setup”.
   - Advance Setting: Clean all events from screen.
   - Patrol Status: Display patrol status.
   - Event Menu: Operator may select what events would like to retrieval. Default is select all.

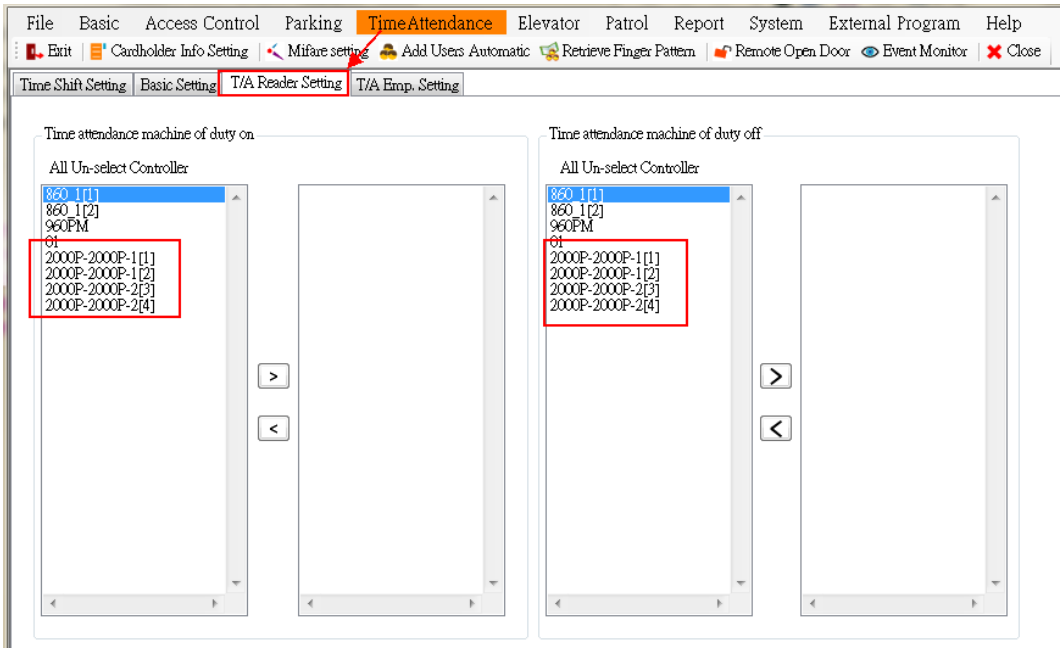


8-4 Time Attendance Setting

Before set Time Attendance functions, please click "Access Control" button to select the control panel; Tick to use Door 1 and Door 2 (main readers ID1、ID3) and choose whether to activate slave readers (ID 2、4); Tick the checkbox according to on-site installations to show all devices on "Time Attendance Settings" (These settings are just for HAMS-20 / HAMS-24 access control settings)

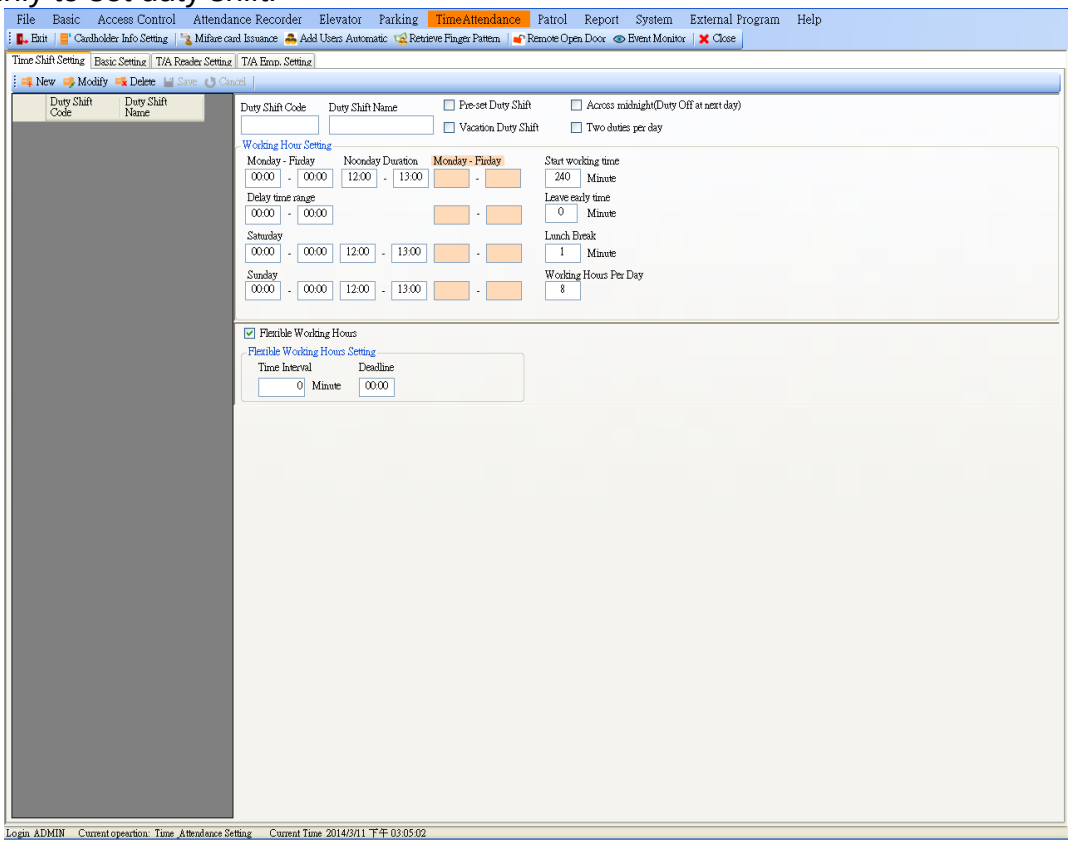
e.g.:





8-4-1 Time Shift Setting

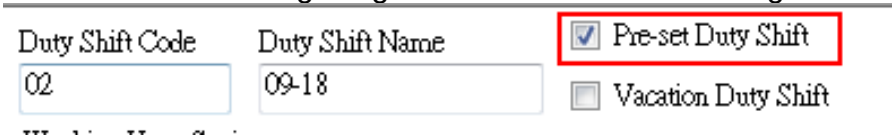
It is mainly to set duty shift.



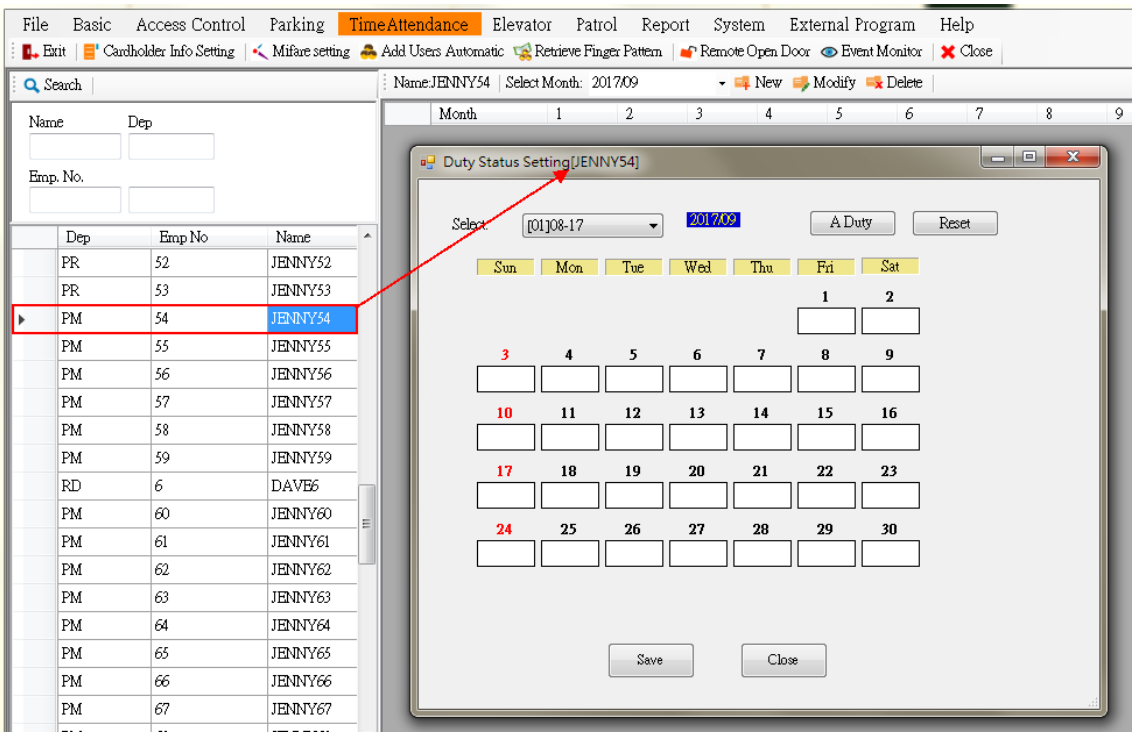
Operation Steps：

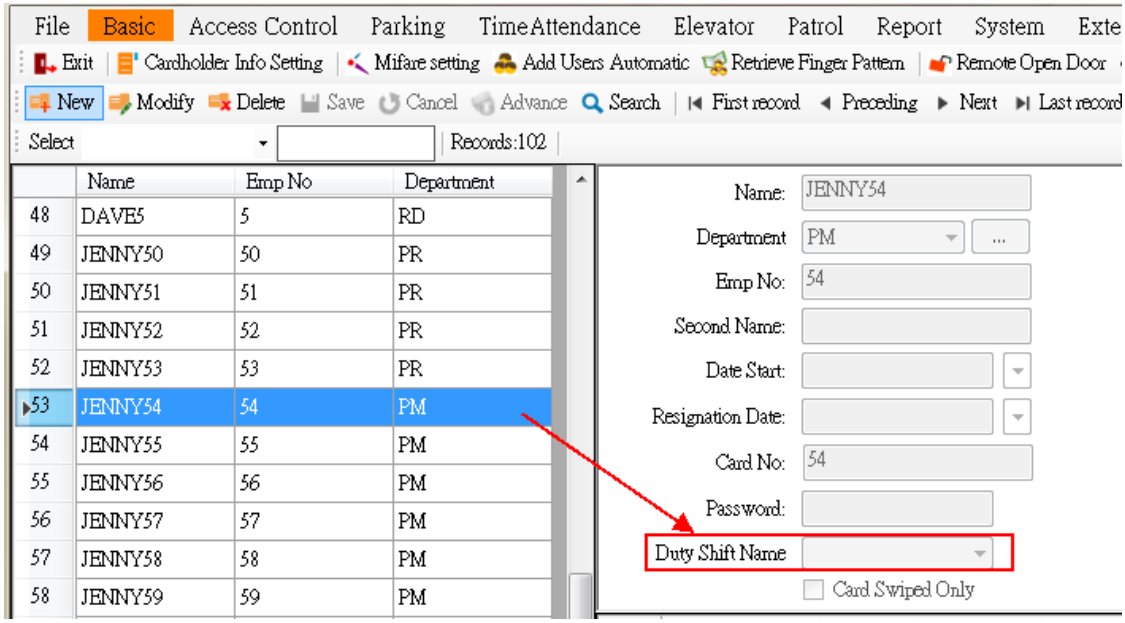
1. Click「New」
2. Input Duty shift code and name.
3. Working Hour Setting：(If any need to be changed, please click "Modify" first, then edit it and then press "Save")

- Pre-set Duty Shift：If it is ticked, all employees will be pre-set to this duty shift. For different duty shift setting, it needs to modify it on "Duty Shift Setting" or go to "Cardholder info setting" to set shift name.

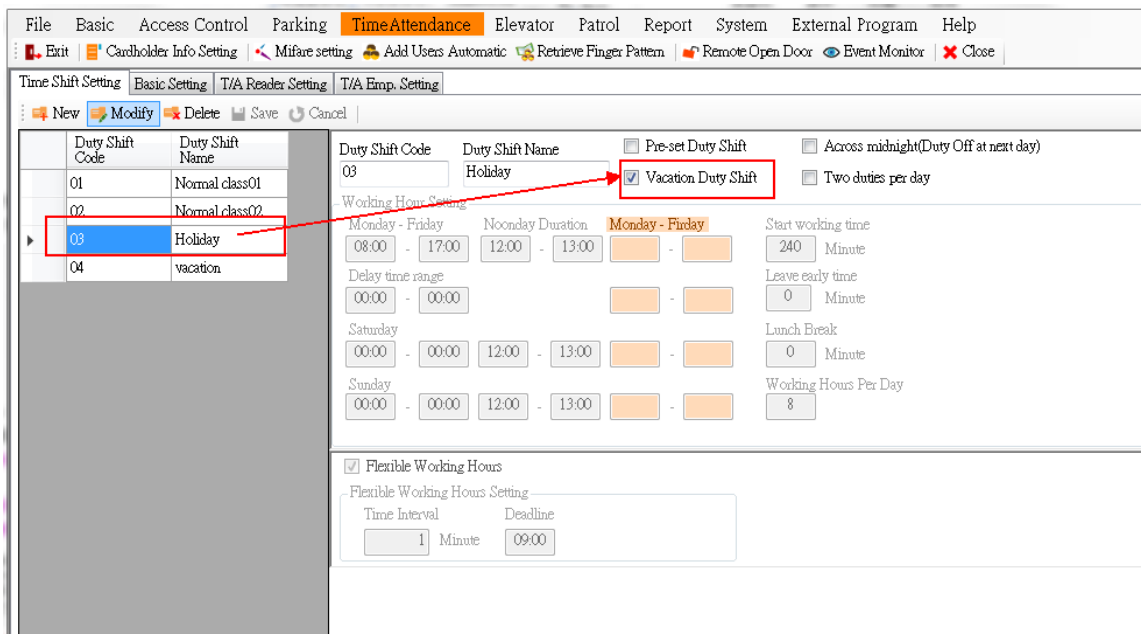


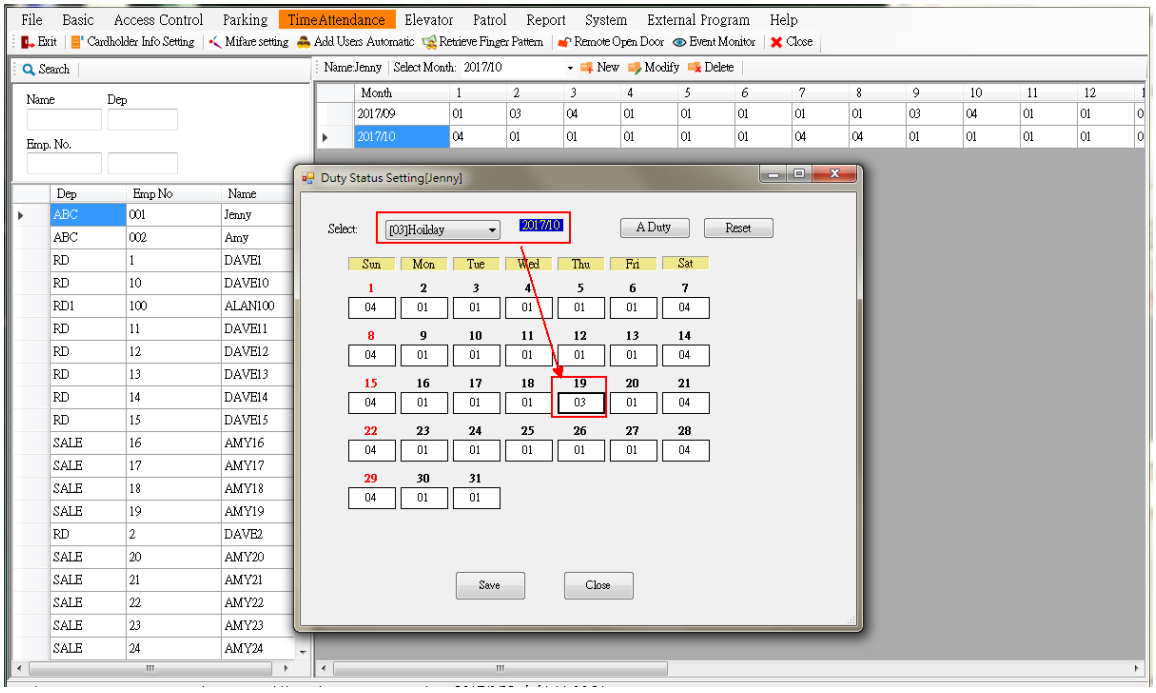
Name	Date	Shift Name	Official Start	Official End
JENNY54	2017/09/21	02	09:00 --:--	18:00 --:--
JENNY55	2017/09/21	02	09:00 --:--	18:00 --:--
JENNY56	2017/09/21	02	09:00 --:--	18:00 --:--
JENNY57	2017/09/21	02	09:00 --:--	18:00 --:--
JENNY58	2017/09/21	02	09:00 --:--	18:00 --:--





- Vacation Duty Shift：Set Vacation (Holiday) Duty Shift for shift planning. It means to assign a certain date to be a Holiday and then it will show "Vacation" on that day in the reports of "Attendance Record Transferring".





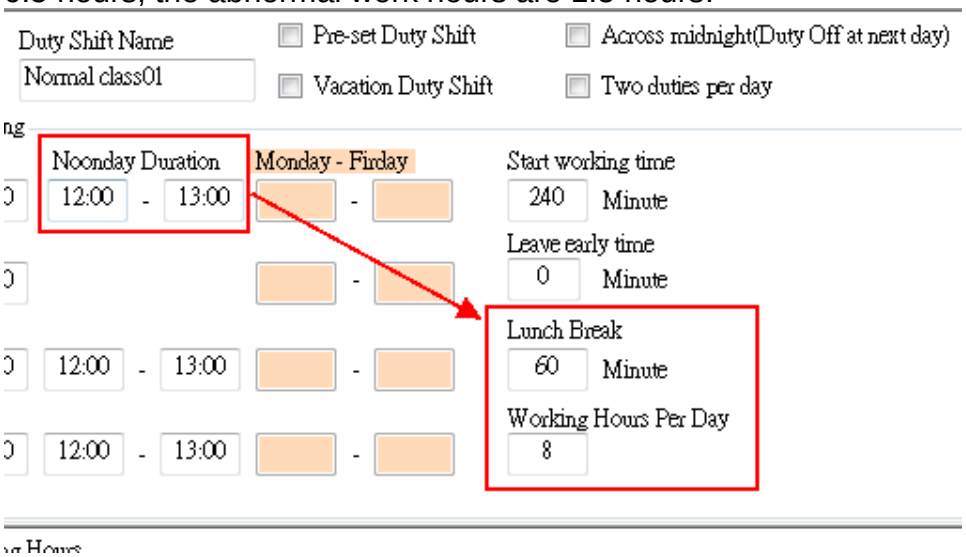
Name	Date	Shift Name	Official Start	Official End	Duty On Status	Duty Off Status
Jenny	2017/10/19	03	08:00 --:--	17:00 --:--	Vacation	Vacation
Amy	2017/10/19	02	09:00 --:--	18:00 --:--	None	None
JENNY54	2017/10/19	02	09:00 --:--	18:00 --:--	None	None
JENNY55	2017/10/19	02	09:00 --:--	18:00 --:--	None	None

- Across midnight (Duty Off at next day)：Duty off time may at next day. (Only available for one shift)
- Two duties per day：Two shifts per day; Tick the checkbox to set/edit the fields of two shifts. The "across midnight" function can't be applied to two shifts per day.
- Monday ~ Friday：Set start time and end time of weekday of first duty.

e.g.: The on duty / off duty time is 08:00 / 17:00. If an employee takes half-day off, the swiping-card time will be at noon. The system will separate the morning time or afternoon time by the midpoint of working hours. In this case, the midpoint time is 12:30. If the employee swipes card by 12:30, it will be deemed to swipe card in the morning. If it's after 12:31 to swipe card, it will be deemed as swiping card in afternoon.

- Monday ~ Friday：Set start time and end time of weekday of second duty.
- Noonday Duration：Break in and out time.

e.g.: The lunch break is from 12:00~13:00, 60 minutes in total. If the lunch break time is not included in work hours, please fill out 60 minutes in the field. If so, the system will deduct the lunch time (60 minutes) while check the employee's work hours. e.g.: as the report below, the employee clocked out at 15:30, the work hours are 6.5 hours, the abnormal work hours are 1.5 hours.



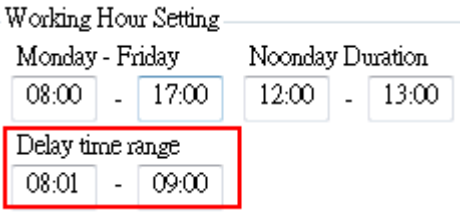
Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help
Normol	Abnormal Swipe Card	07:57 --:--	15:30 --:--	6.5	1.5	
None	None	--:-- --:--	--:-- --:--	0.0	8	

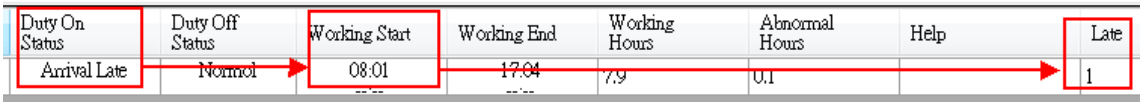
If lunch time is counted as hours worked, then fill out 0 to this field to make the system include the lunch time to work hours in the report. An example as below: The employee clocked out at 15:30; the work hours are 7.5 hours and the abnormal work hour is 0.5 hour.

Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help
Normol	Abnormal Swipe Card	07:57 --:--	15:30 --:--	7.5	0.5	
None	None	--:-- --:--	--:-- --:--	0.0	8	

- Delay time range： Arrival time within this range means the cardholder is late.

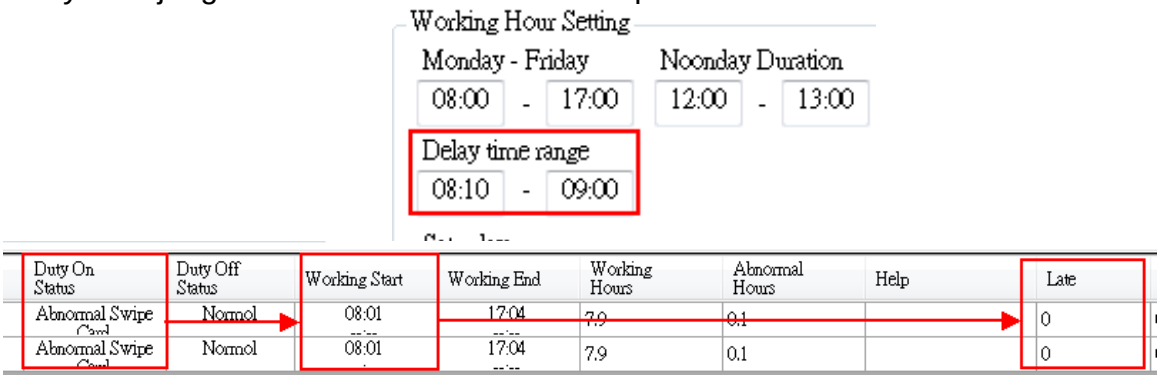
e.g.: An employee's day starts at 8:00 am, finishes at 17:00. If the employee clocks in one day at 8:01, the system will determine it as lateness.



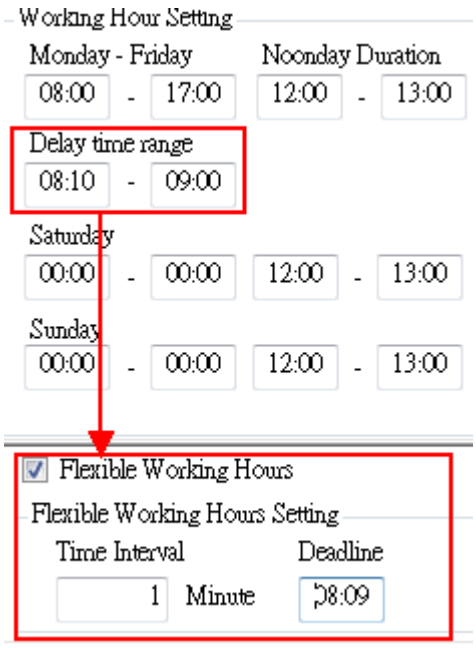


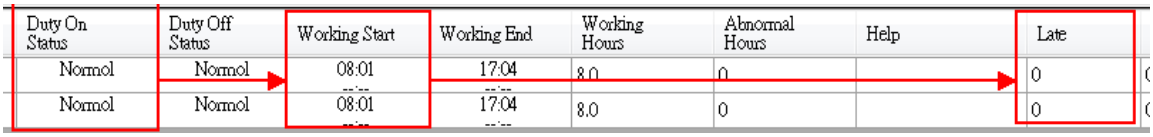
If a company has 10 minutes for clock-in tolerance (grace period) and pre-set the lateness range to be 08:10~09:00, but the time 08:01~08:09 is the tolerance period, won't be counted as lateness, so the system will determine this condition to be a card-swipe abnormal case. To avoid this condition, please tick the checkbox "flexible working hours" and set the amount of flexi time.

e.g.: A company's work hours are from 08:00 ~ 17:00; with the grace period 10 minutes, the lateness range is 08:10 ~ 09:00. If an employee clocks in at 08:01, the system judges it as an abnormal card-swipe but not count it in lateness.

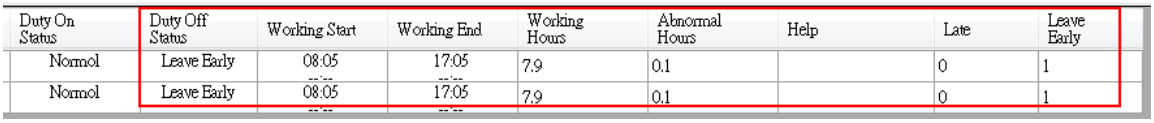


It allows to tick the checkbox of "flexible working hours" to adjust the work hours. Set 08:01~08:09 as flexi time. If an employee clock in at 8:05, it becomes normal event, not abnormal event, but the clock-out time has to be 17:06 or later. Clock out before 17:06 will be recorded as early-out.





Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help	Late
Normol	Normol	08:01 --:--	17:04 --:--	8.0	0		0
Normol	Normol	08:01 --:--	17:04 --:--	8.0	0		0



Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help	Late	Leave Early
Normol	Leave Early	08:05 --:--	17:05 --:--	7.9	0.1		0	1
Normol	Leave Early	08:05 --:--	17:05 --:--	7.9	0.1		0	1

- Saturday & Sunday:：Set start time and end time of Saturday and Sunday. Default is 00:00~00:00 which means there's no work. Accrued Time attendance record may not read data when set 00:00~00:00.
- Start Working time：Counts the half day working hours. Default is 240 minutes (4 hours). If working hours are from 08:00-17:00, start working time is 04:00.
- Leave early time：Set by minutes. It defines leave time is early then normal setting. Ex. Duty hours is from 08:00-17:00. Leave early time is 5 minutes, so the user can leave the office by 16:55. If the user leaves the office at 16:54, the system will treat this situation as an abnormal condition. If the checkbox of "flexible working hours" being ticked, the normal work hours will be changed accordingly. e.g.: the flexi-time is 10 minutes; If an employee clocks in at 08:03, the clock-out time has to be 17:10 or later. Clocks out at 17:00 ~ 17:09 will be determined as early-out.

Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours
Normol	Leave Early	07:58 --:--	16:55 --:--	7.9	0.1
Normol	Abnormal Swipe Card	08:00 -- --	16:54 -- --	7.9	0.1

- Lunch Break：Listed how many minutes for lunch break. Needs to work with card-swipe on lunch break time. If the lunch break is 60 minutes, then fill out the

lunch break 60 minutes. The system will deduct 60 minutes when it is in abnormal card swipe. If you don't want to deduct the lunch break time, then please just fill out "0"

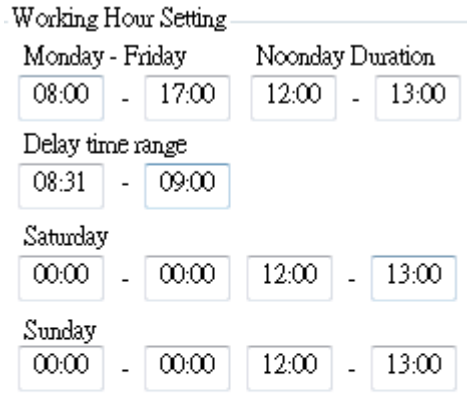
- Working Hours Per Day：How many working hours a day. When employee's work hours are abnormal, the system will decide the work hours according to the settings. e.g.: in the below table, in case of the work hours are 8 hours, the employee clocks out at 15:30,the work hours are 6.5 hours and the abnormal hours are 1.5 hours.

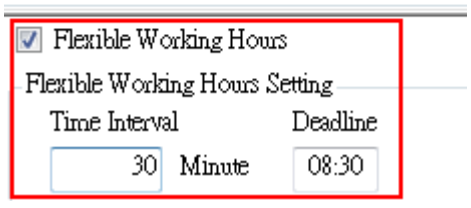
Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help
Normol	Abnormal Swipe Card	07:57 --:--	15:30 -- --	6.5	1.5	
None	None	--:-- --:--	--:-- --:--	0.0	8	

4. Flexible working Hours：Tick the check box and input time interval and cutoff time. It defines the flexible working time. If function is not selected, the working time follows original setting.

Ex：The working hour is 08:00-17:00. If time interval is 30 minutes and cutoff time is 08:30, there will be two flexible working groups -- 0800-1700 and 0830-1730.

e.g.: as the table shown below, clocks-in at 08:15, clocks out at 17:30, it shows normal; clocks in at 08:09, clocks-out at 17:10, it will show abnormal card swipe, because the clock-out time should be after 17:30. (if set time interval to be 10 minutes, there will 3 flexi-times 08:10~17:10，08:20~17:20，08:30~17:30)

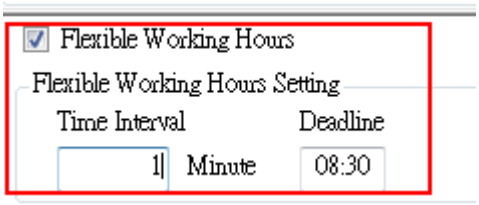




Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help	Late
Normol	Normol	08:15 -- --	17:30 -- --	8.0	0		0
Normol	Abnormal Swipe Card	08:09 --:--	17:09 --:--	7.8	0.2		0

If set the time interval to be 1 minute, then it will be normal if clocks in at 08:09 and clock

out at 17:10.



Duty On Status	Duty Off Status	Working Start	Working End	Working Hours	Abnormal Hours	Help	Late
Normal	Normal	08:15	17:30	8.0	0		0
Normal	Normal	08:09	17:10	8.0	0		0

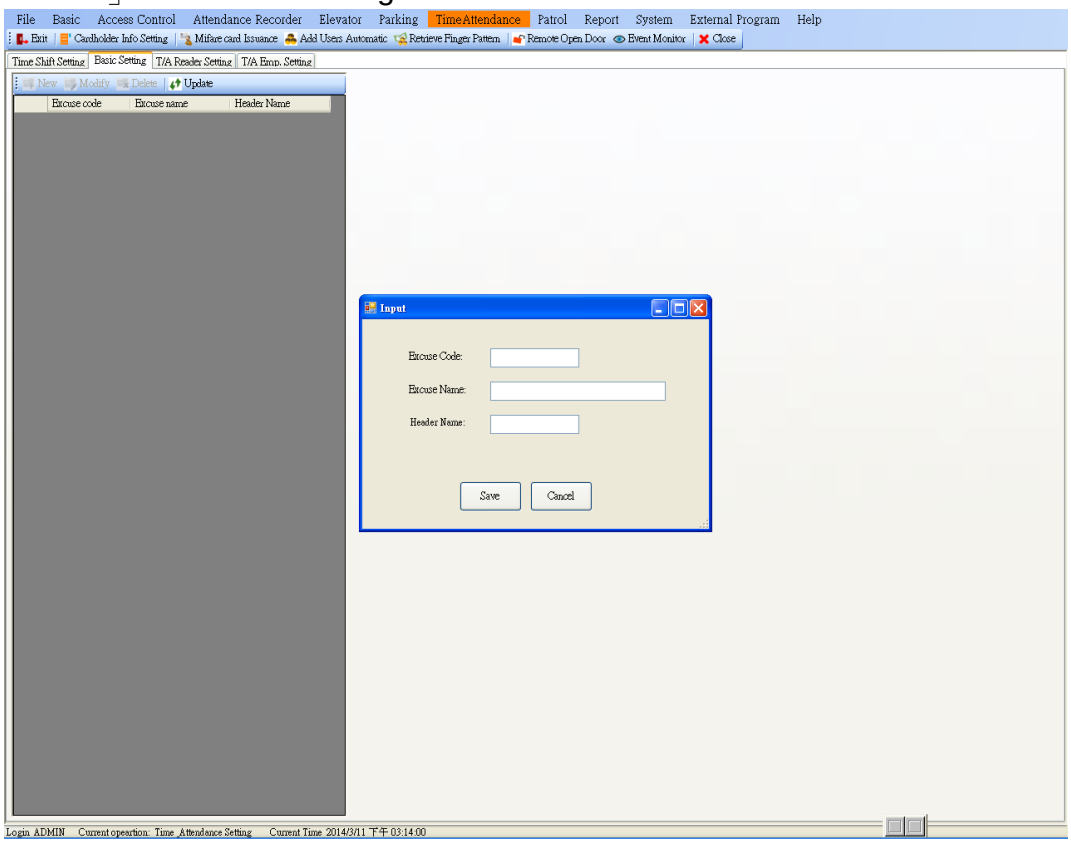
5.Click「Save」once the above operation steps finished.

8-4-2 Basic Setting

It defines all possible reasons for requesting a leave.

Operation Steps：

1. Click 「New」
2. Input excuse code and name, ex. Annual leave, normal leave or sick leave.
3. Click「Save」to save the settings.

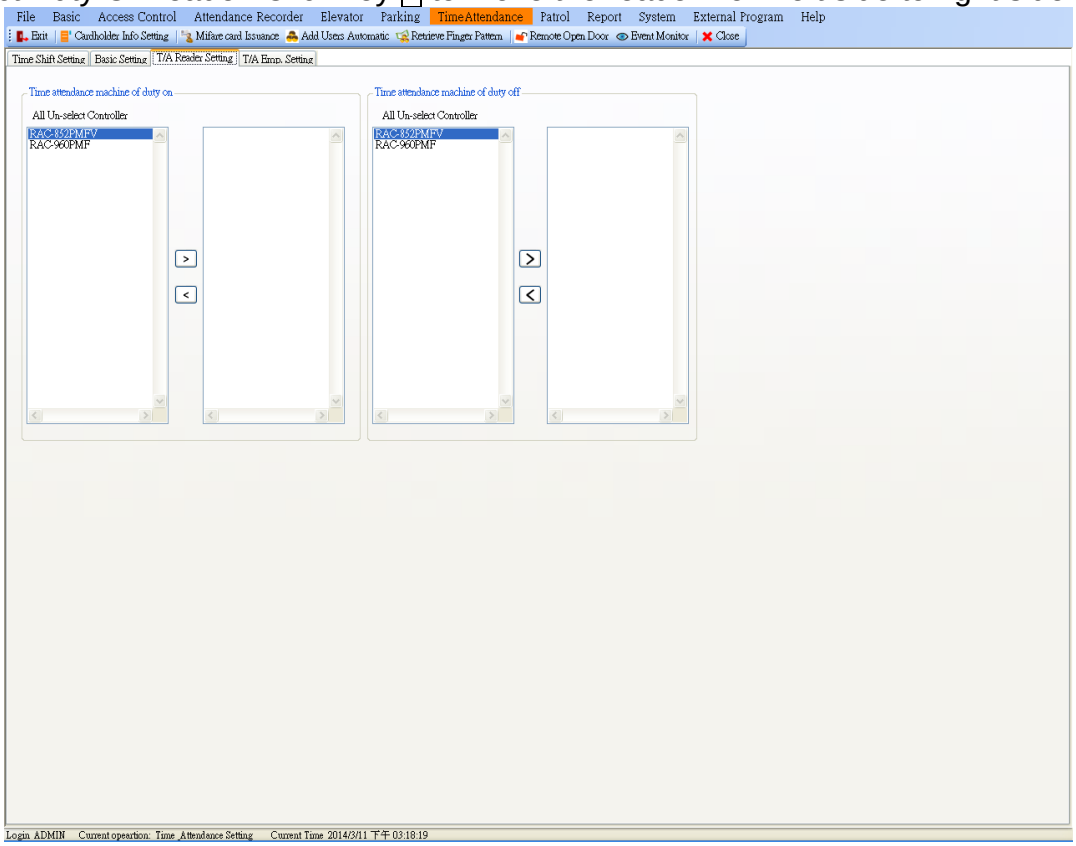


8-4-3 T/A Reader Setting

If no readers are selected, the system will treat all readers are for time attendance system.

Operation Steps：

1. Select Duty On reader. Click key [>] to move the reader from left side to right side.
2. Select Duty Off reader. Click key [>] to move the reader from left side to right side.

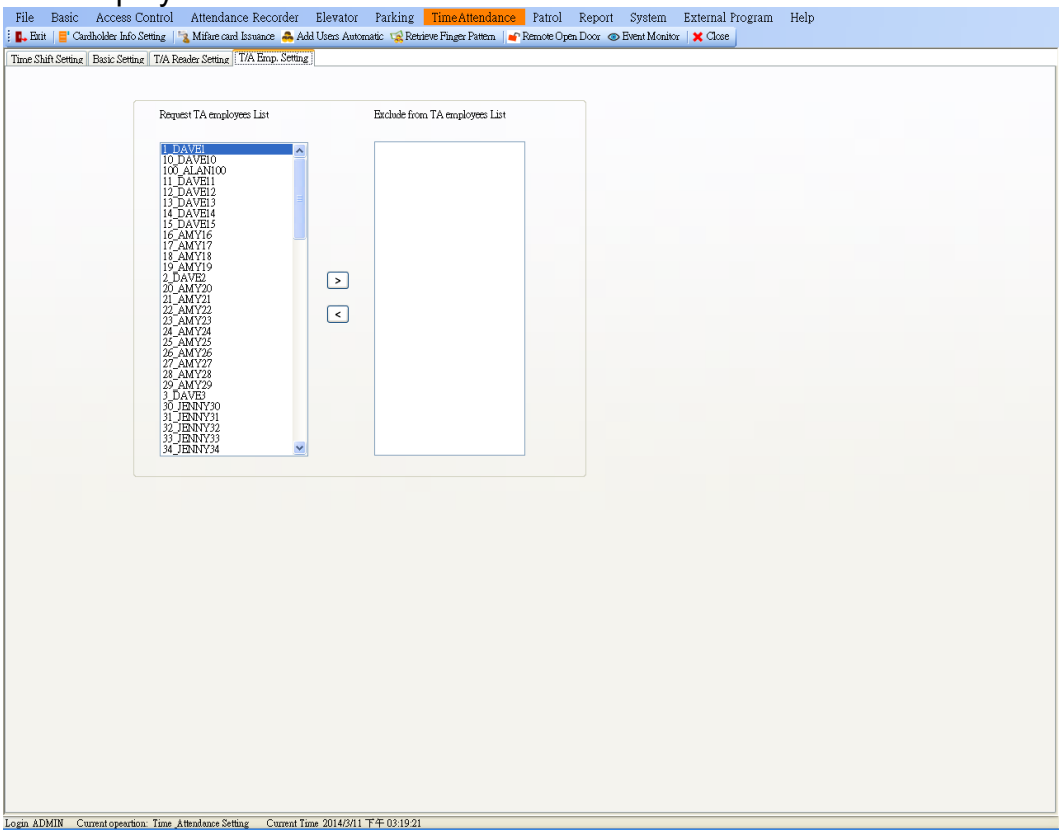


8-4-4 T/A Emp. Setting

Select employees who don't require time attendance monitoring.

Click key [>] to move the employees from left side to right side.

Default is all employees' time attendance are recorded.

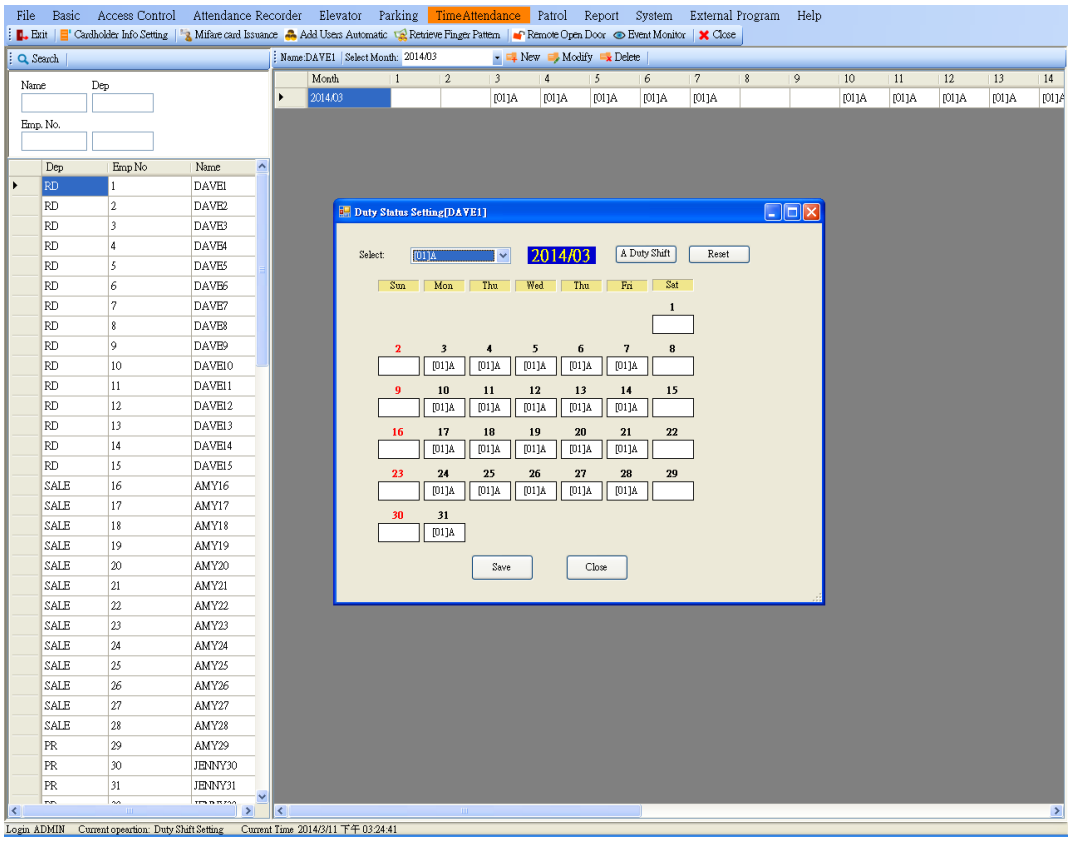


8-5 Duty Shift Setting

It defines employees' duty shift if user does not use preset duty shift.

Operation Steps：

1. Select employees or quickly search by employee name, department or Emp. number.
2. Select month of duty shift.
3. Input「New」
4. Select duty shift code first then click the blank space of date, the duty shift will be assigned to the date. If the same duty shift is applicable to all dates within a month, please click「A Duty Shift」to assign a duty shift for whole month. For specific date of month, user can modify it manually.　To clear the setting of the whole month, please click「Reset」.
5. Click「Save」to save the settings.

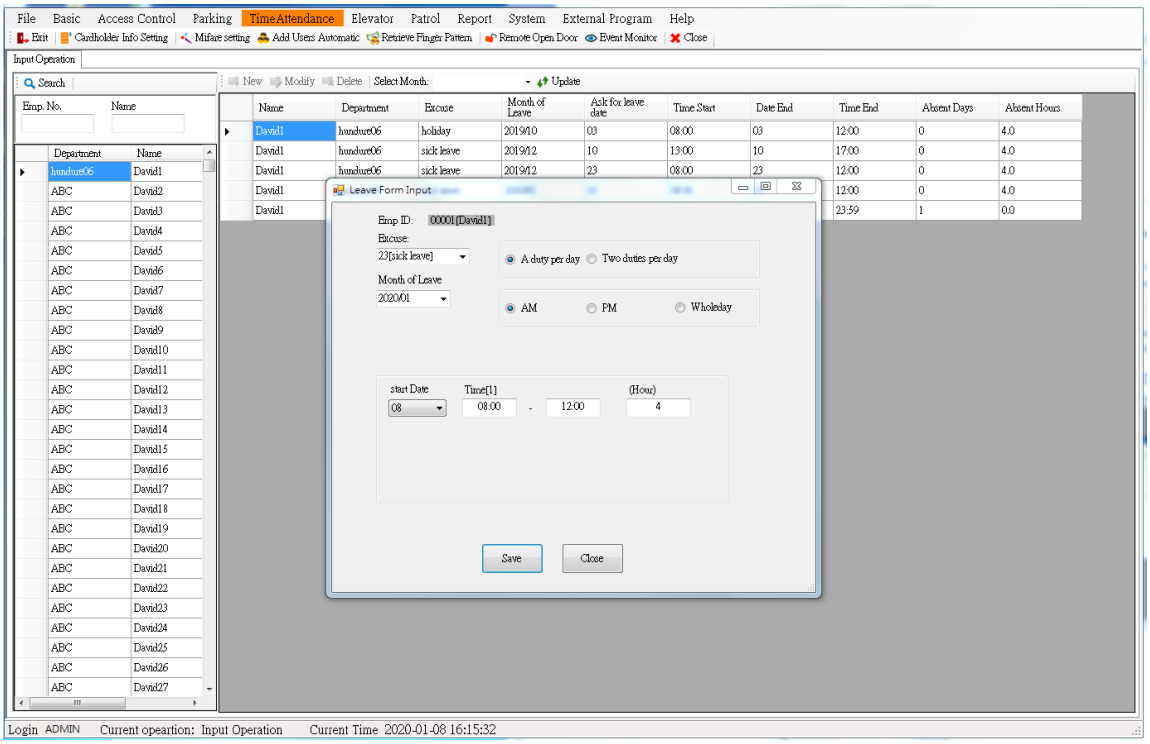


8-6 Input Operation

It defines to set employees' excuse form.

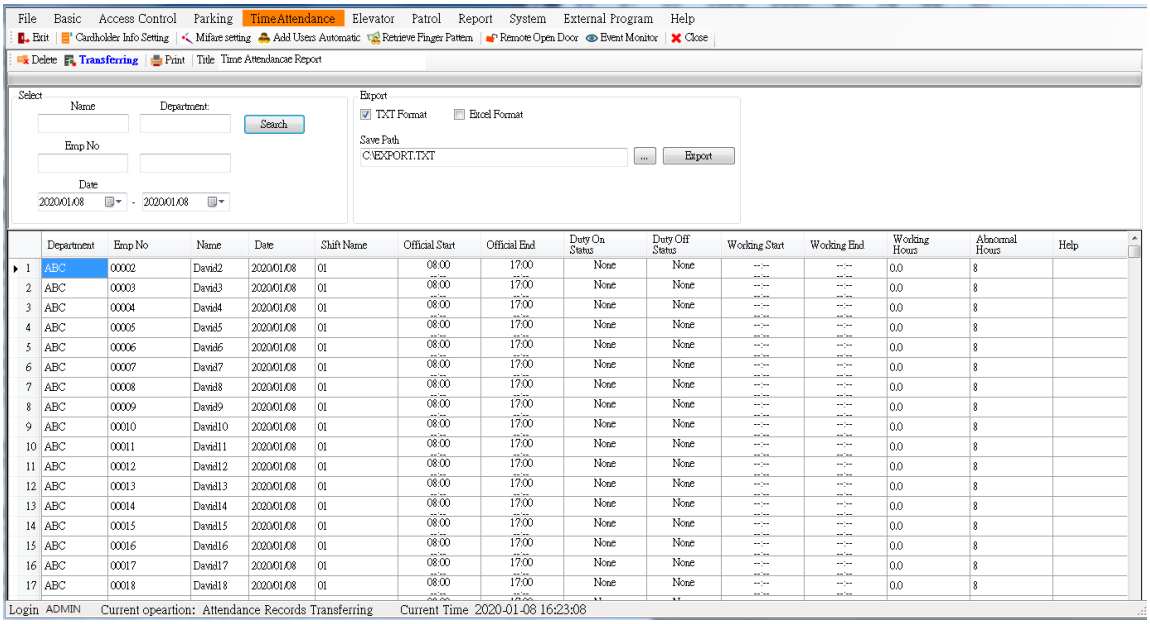
Operation Steps：

1. Select the employee or quickly search by Emp. No or name.
2. Click「New」
3. Select Excuse type. Please set excuse name and code in "Basic Setting".
4. Select a duty per day or two duties per day.
5. Select AM, PM or Whole day. The system will change the date and time automatically.
6. If the date and time are incorrect, user may modify excuse month, date and time manually.
7. Click「Save」.
8. Select the person you want to query and the system will display all the leave details for this person. You can also query by month and then click "Update".



8-7 Attendance Records Transferring

Specify the range of time attendance records according to department, employee name, employee no. or date. After report has been generated, if duty shift or swipe card data have been changed, please delete the report, renew the selections and click「Reset」. The newly time attendance report will be generated. Report can be converted to TXT or XLS format for other application.

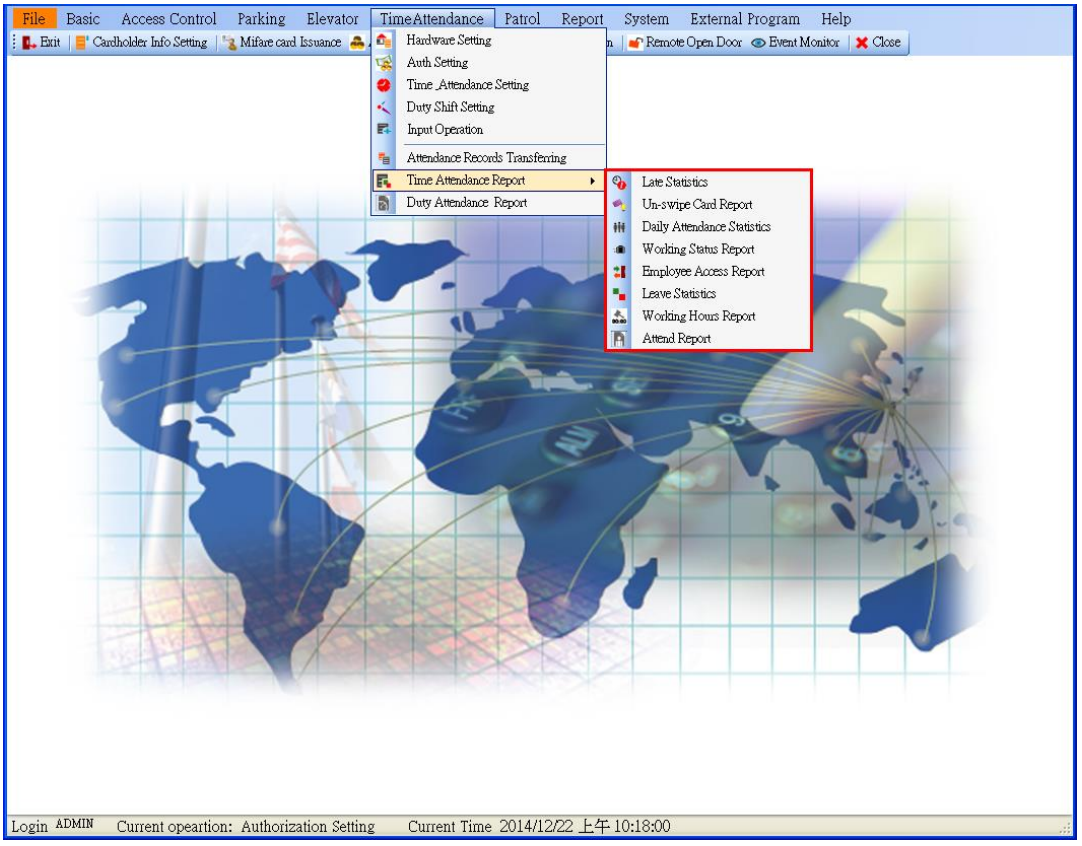


8-8 Time Attendance report

Specify the range of time attendance records according to department, employee name, and employee no or date. Report can be converted to TXT or XLS format for other application.

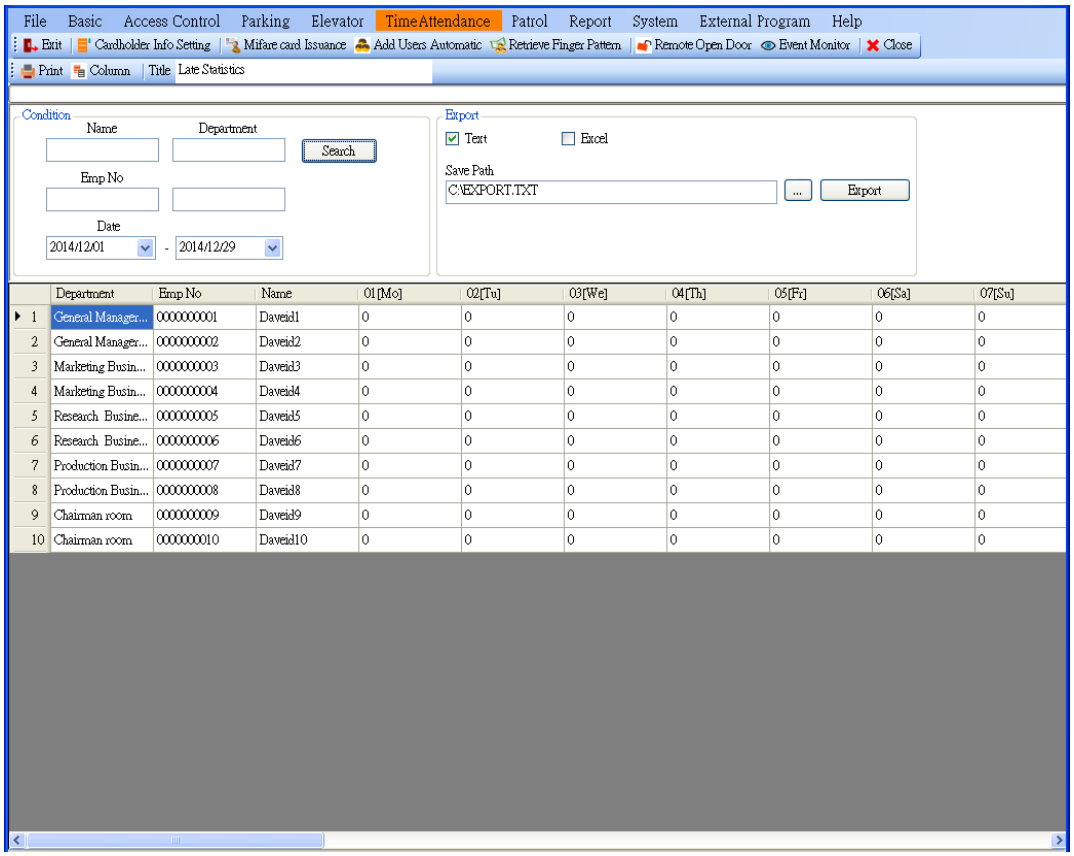
：Print 。

：Report column is remove able (Do not support Daily Attendant Statistic)



8-8-1 Late Statistic

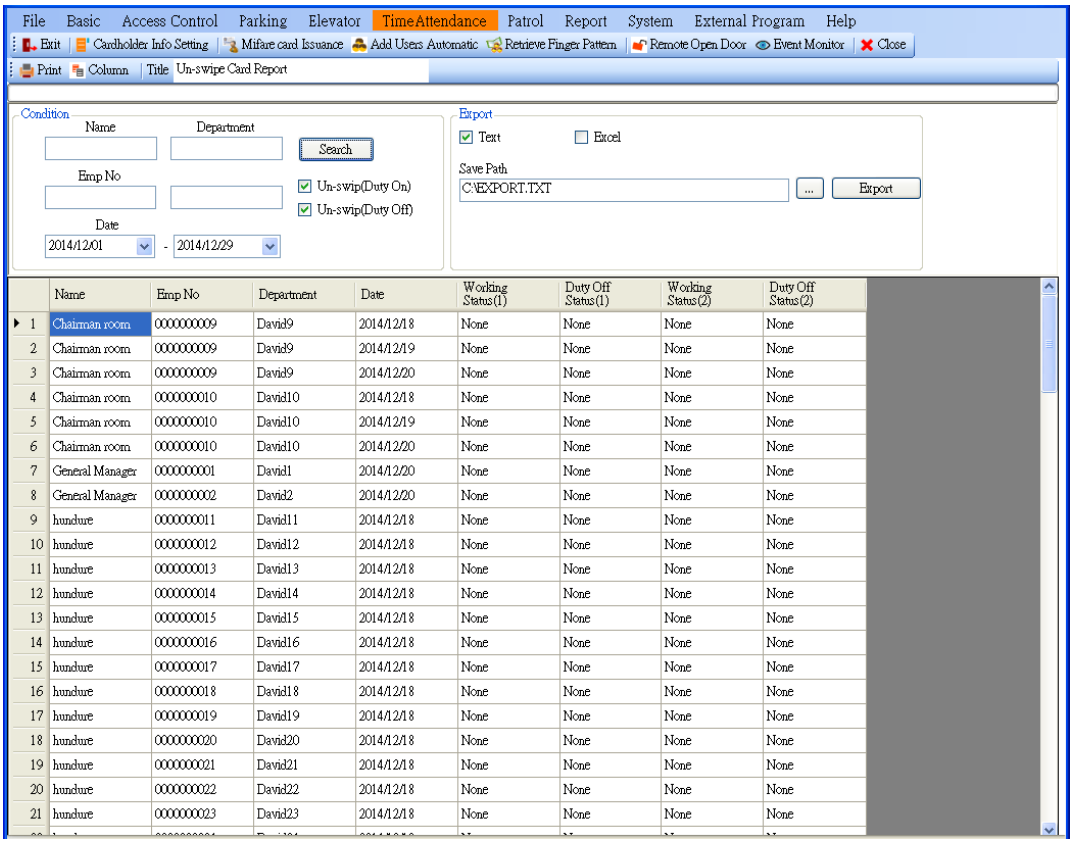
Specify the range according to Cardholder Name, Department, Emp No and Date selection.



8-8-2 Un-swipe Card Report

Allow operators to query un-swipe card employee information.

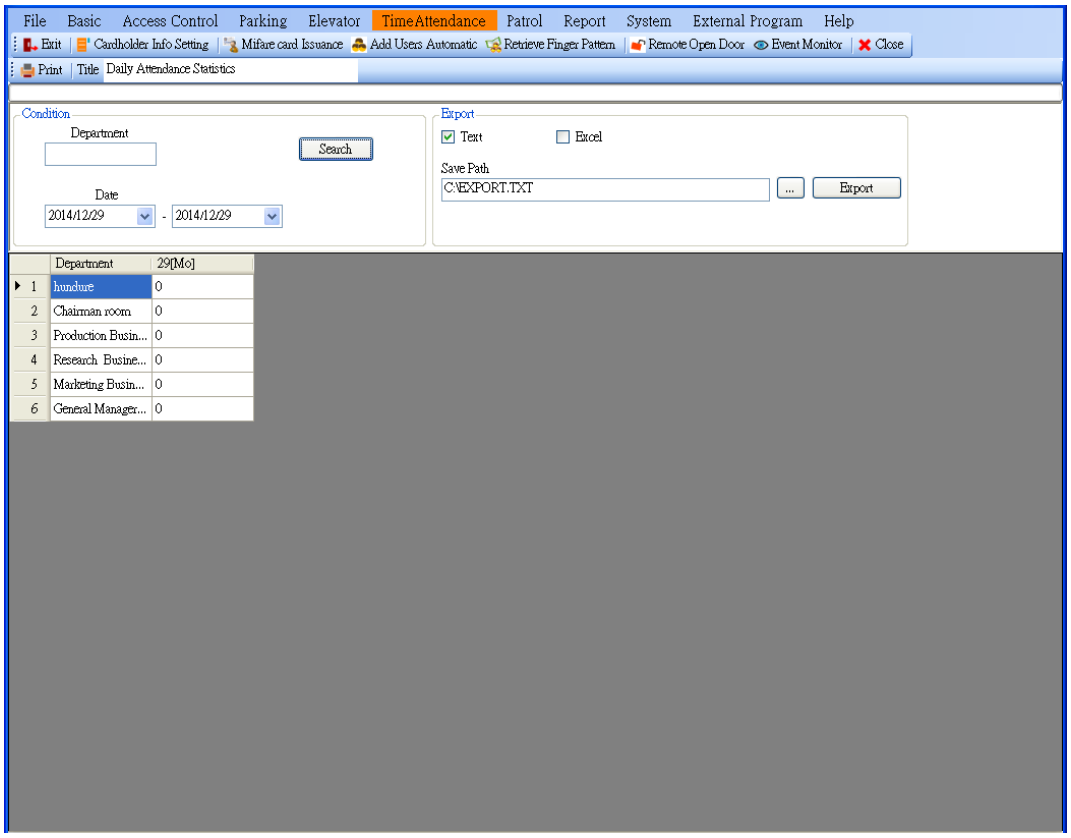
If users have two duty shifts, the report may display two duty shifts' information.



	Name	Emp No	Department	Date	Working Status(1)	Duty Off Status(1)	Working Status(2)	Duty Off Status(2)
1	Chairman room	0000000009	David9	2014/12/18	None	None	None	None
2	Chairman room	0000000009	David9	2014/12/19	None	None	None	None
3	Chairman room	0000000009	David9	2014/12/20	None	None	None	None
4	Chairman room	0000000010	David10	2014/12/18	None	None	None	None
5	Chairman room	0000000010	David10	2014/12/19	None	None	None	None
6	Chairman room	0000000010	David10	2014/12/20	None	None	None	None
7	General Manager	0000000001	David1	2014/12/20	None	None	None	None
8	General Manager	0000000002	David2	2014/12/20	None	None	None	None
9	hundure	0000000011	David11	2014/12/18	None	None	None	None
10	hundure	0000000012	David12	2014/12/18	None	None	None	None
11	hundure	0000000013	David13	2014/12/18	None	None	None	None
12	hundure	0000000014	David14	2014/12/18	None	None	None	None
13	hundure	0000000015	David15	2014/12/18	None	None	None	None
14	hundure	0000000016	David16	2014/12/18	None	None	None	None
15	hundure	0000000017	David17	2014/12/18	None	None	None	None
16	hundure	0000000018	David18	2014/12/18	None	None	None	None
17	hundure	0000000019	David19	2014/12/18	None	None	None	None
18	hundure	0000000020	David20	2014/12/18	None	None	None	None
19	hundure	0000000021	David21	2014/12/18	None	None	None	None
20	hundure	0000000022	David22	2014/12/18	None	None	None	None
21	hundure	0000000023	David23	2014/12/18	None	None	None	None

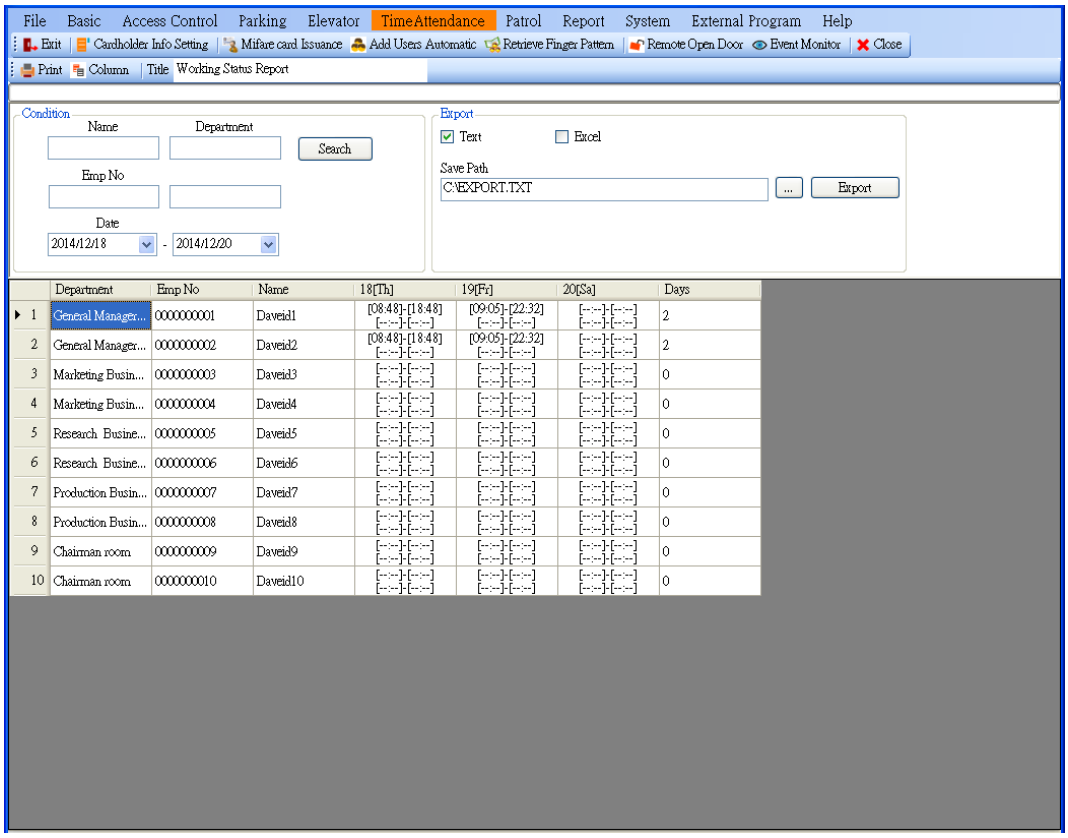
8-8-3 Daily Attendant Statistic

Allow users query by department. If search directly, system will display all user amounts by every department.



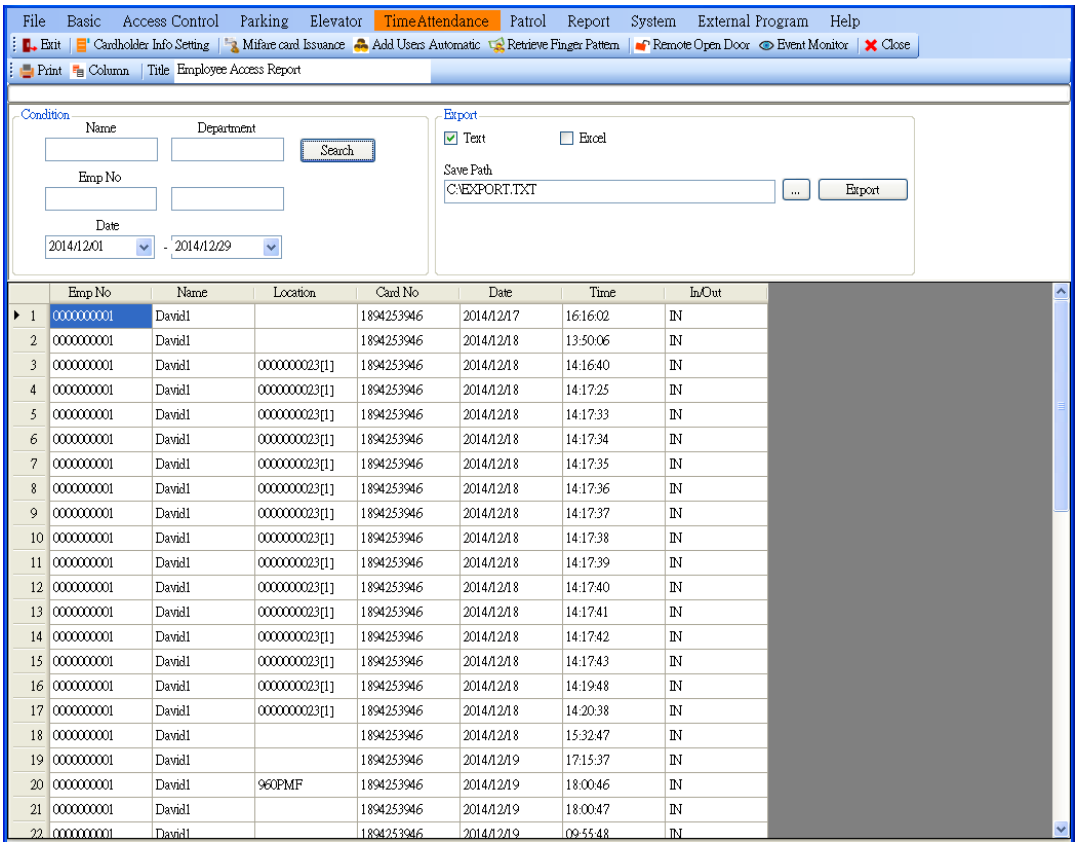
8-8-4 Working Status Report

Specify the range according to Cardholder Name, Department, Emp No and Date selection.



8-8-5 Employee Access Report

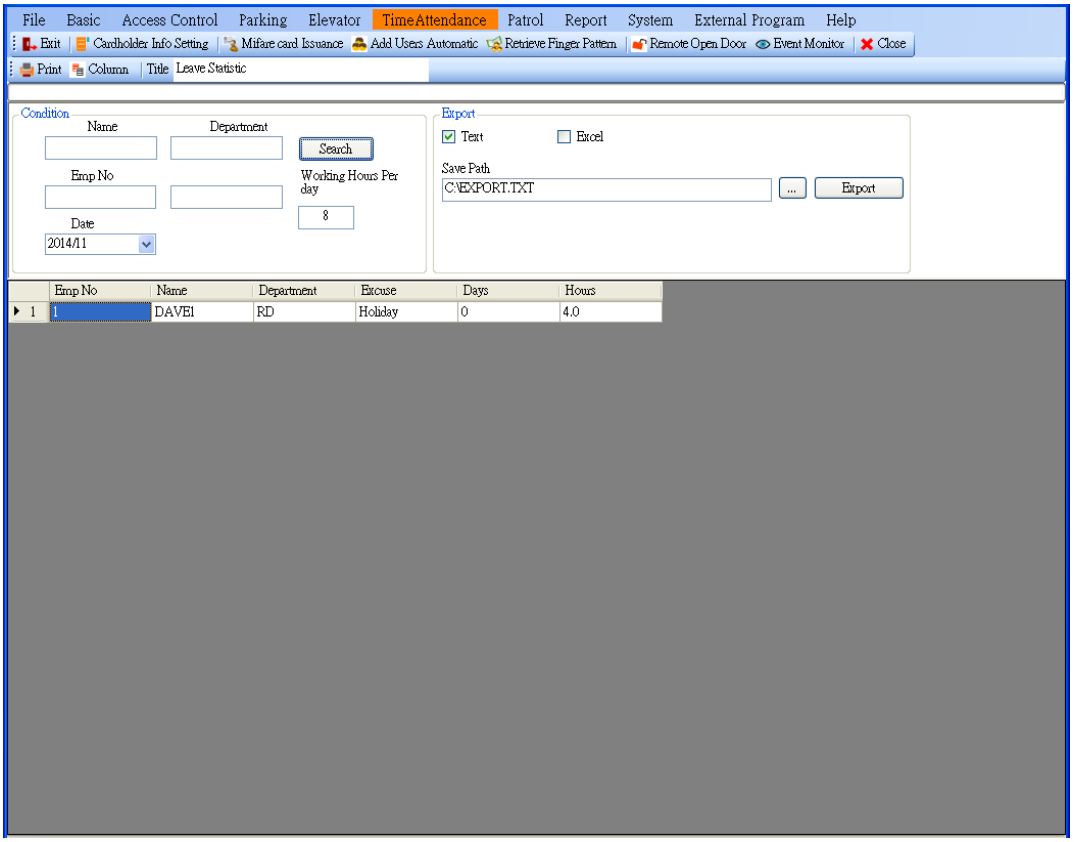
Specify the range according to Cardholder Name, Department, Emp No and Date selection.



8-8-6 Leave Statistics

It is mainly display the total leave hours per month.

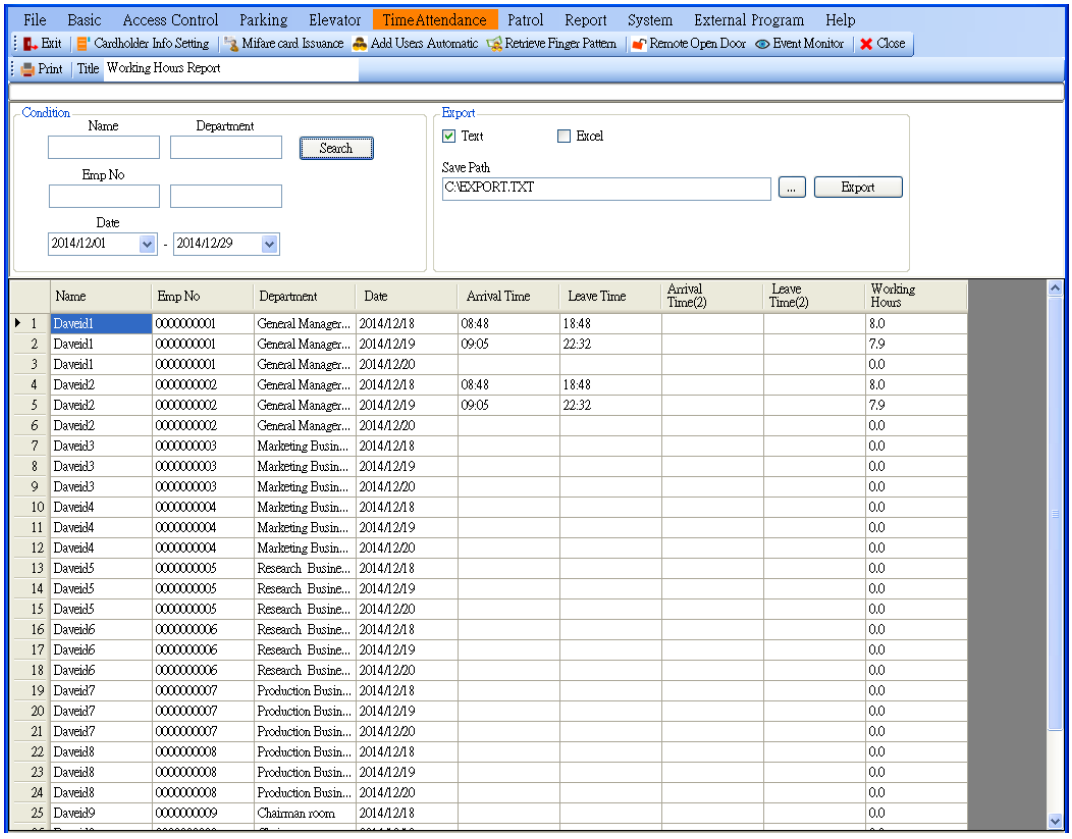
Specify the range according to Cardholder Name, Department, Emp. No and Month selection.



8-8-7 Working Hours Report

Specify the range according to Cardholder Name, Department, Emp. No and Month selection.

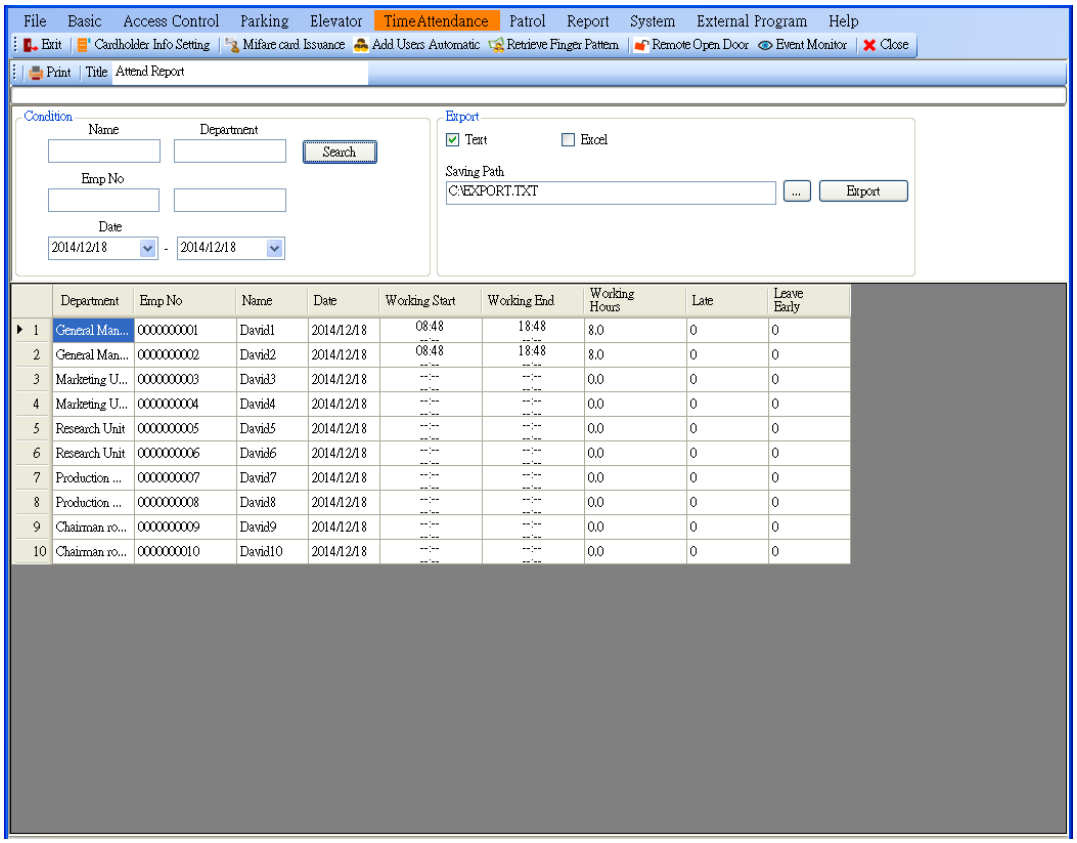
This report is different from Daily attendance statistic. In this report, it is not only calculate working hours per day, but also display first in and last out time.



	Name	Emp No	Department	Date	Arrival Time	Leave Time	Arrival Time(2)	Leave Time(2)	Working Hours
1	Daveid1	0000000001	General Manager...	2014/12/18	08:48	18:48			8.0
2	Daveid1	0000000001	General Manager...	2014/12/19	09:05	22:32			7.9
3	Daveid1	0000000001	General Manager...	2014/12/20					0.0
4	Daveid2	0000000002	General Manager...	2014/12/18	08:48	18:48			8.0
5	Daveid2	0000000002	General Manager...	2014/12/19	09:05	22:32			7.9
6	Daveid2	0000000002	General Manager...	2014/12/20					0.0
7	Daveid3	0000000003	Marketing Busin...	2014/12/18					0.0
8	Daveid3	0000000003	Marketing Busin...	2014/12/19					0.0
9	Daveid3	0000000003	Marketing Busin...	2014/12/20					0.0
10	Daveid4	0000000004	Marketing Busin...	2014/12/18					0.0
11	Daveid4	0000000004	Marketing Busin...	2014/12/19					0.0
12	Daveid4	0000000004	Marketing Busin...	2014/12/20					0.0
13	Daveid5	0000000005	Research Busine...	2014/12/18					0.0
14	Daveid5	0000000005	Research Busine...	2014/12/19					0.0
15	Daveid5	0000000005	Research Busine...	2014/12/20					0.0
16	Daveid6	0000000006	Research Busine...	2014/12/18					0.0
17	Daveid6	0000000006	Research Busine...	2014/12/19					0.0
18	Daveid6	0000000006	Research Busine...	2014/12/20					0.0
19	Daveid7	0000000007	Production Busin...	2014/12/18					0.0
20	Daveid7	0000000007	Production Busin...	2014/12/19					0.0
21	Daveid7	0000000007	Production Busin...	2014/12/20					0.0
22	Daveid8	0000000008	Production Busin...	2014/12/18					0.0
23	Daveid8	0000000008	Production Busin...	2014/12/19					0.0
24	Daveid8	0000000008	Production Busin...	2014/12/20					0.0
25	Daveid9	0000000009	Chairman room	2014/12/18					0.0

8-8-8 Attend Report

Specify the range according to Cardholder Name, Department, Emp. No and Month selection.



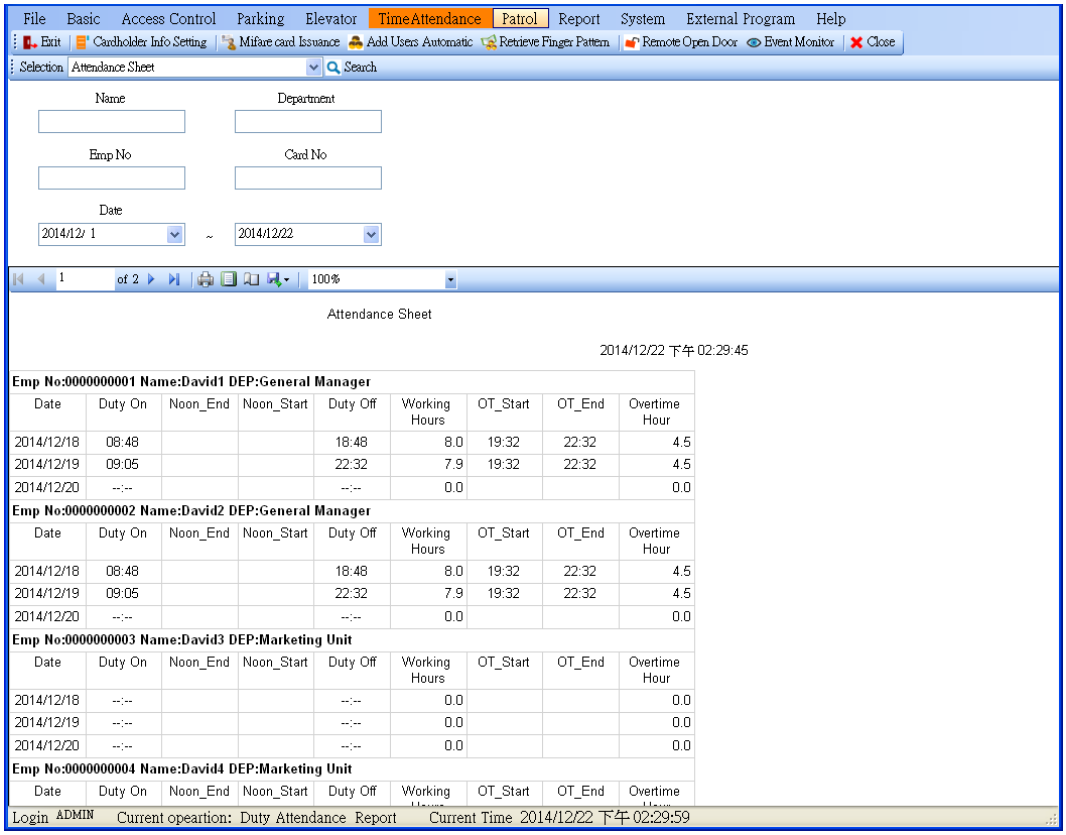
8-9 Duty Attendance Report

Provide seven different attendance reports. But only support signal duty shift. Regarding overtime data, you must use hardware function keys and select OT-Start / OT-End status upon swipe card. Otherwise, overtime data will not be counted.

The fields of Noon_End, Noon_Start in the single duty shift attendance report are acquired according to the noon-break period.
Example:
If the noon-break period is 12:00 ~ 13:00, the system will only refer to the swiping card records during 12:00 ~ 13:00, and ignore the records beyond this range. Therefore, swiping card during 12:00 ~ 12:30 will be looked as off-duty at noon, and the swiping card after 12:30 will be looked as on-duty at noon.

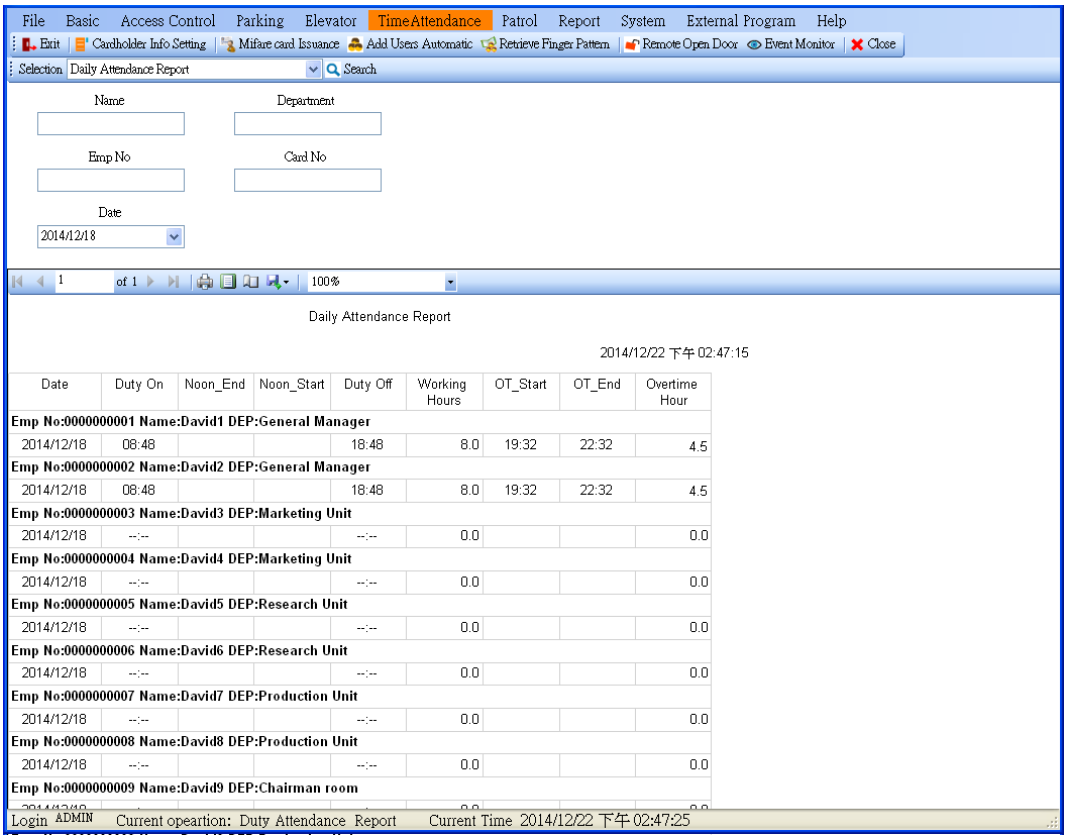
8-9-1 Attendance Sheet

Base on employee to generate attendance reports. Specify the range according to name, department, employee no, card no and Month selection.



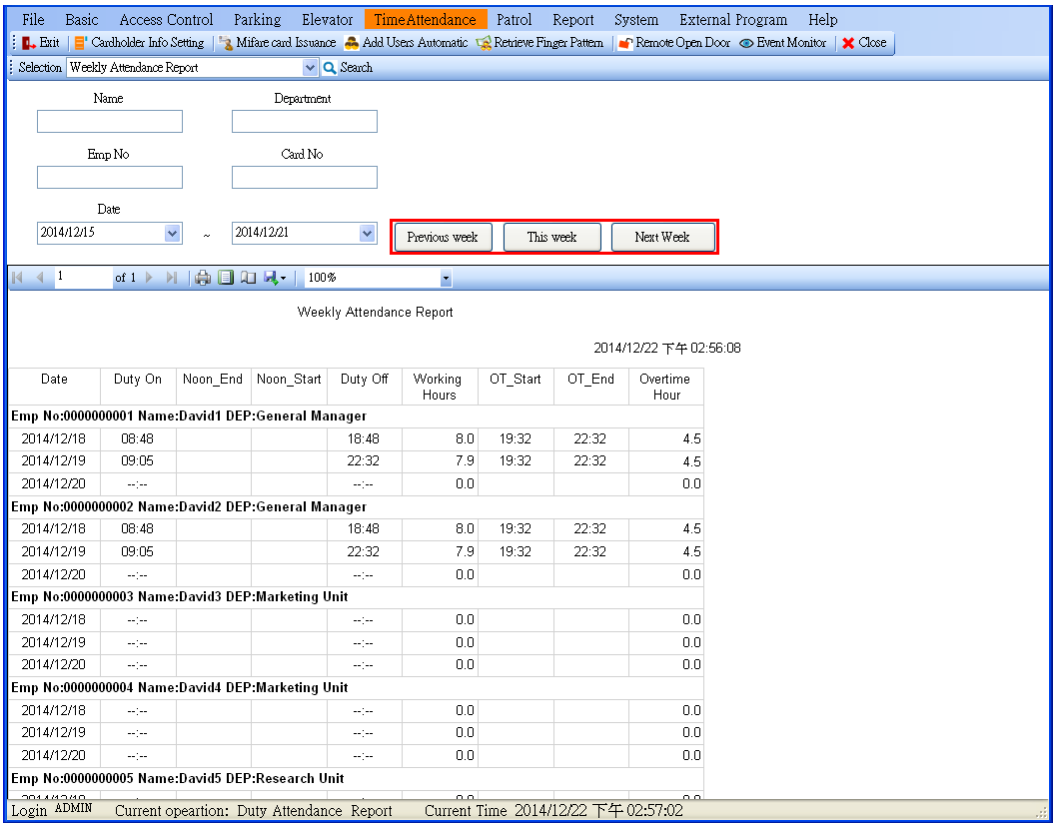
8-9-2 Daily Attendance Report

Specify the range according to name, department, employee no, card no and Month selection.



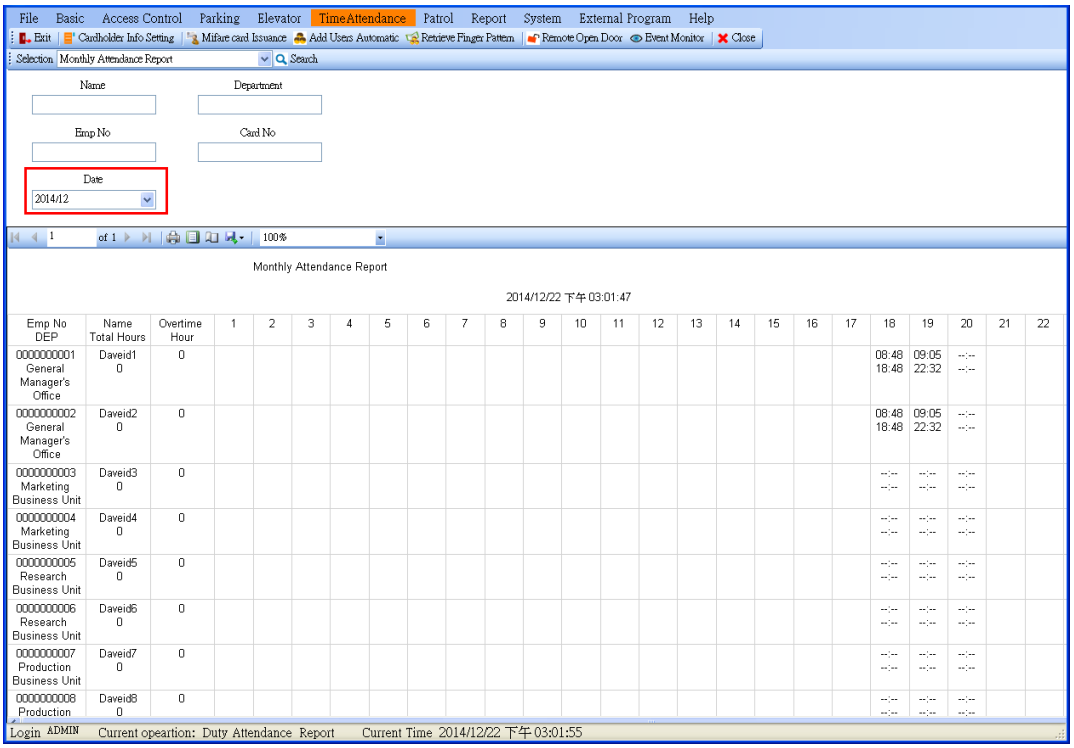
8-9-3 Weekly Attendance Report

Specify the range according to name, department, employee no, card no and Month selection.



8-9-4 Monthly Attendance Report

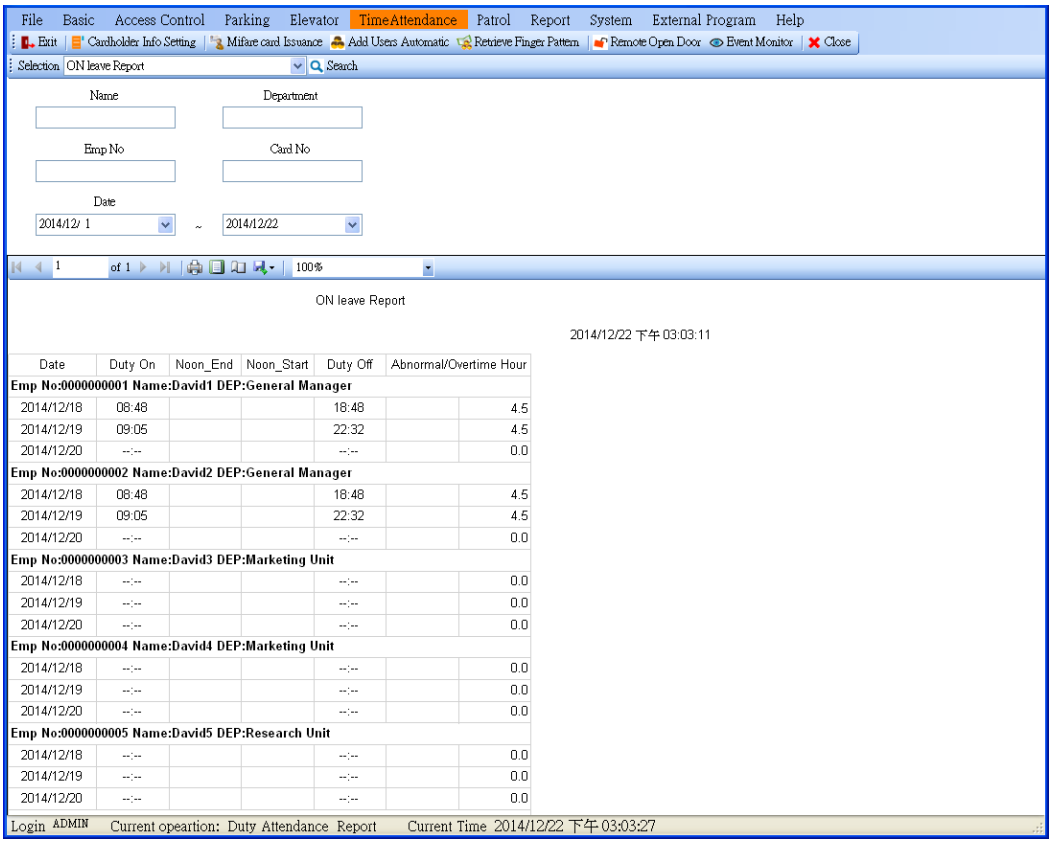
Specify the range according to name, department, employee no, card no and Month selection.



Emp No DEP	Name Total Hours	Overtime Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
0000000001 General Manager's Office	Daveid1 0	0																		08:48 18:48	09:05 22:32	--:-- --:--		
0000000002 General Manager's Office	Daveid2 0	0																		08:48 18:48	09:05 22:32	--:-- --:--		
0000000003 Marketing Business Unit	Daveid3 0	0																		--:-- --:--	--:-- --:--	--:-- --:--		
0000000004 Marketing Business Unit	Daveid4 0	0																		--:-- --:--	--:-- --:--	--:-- --:--		
0000000005 Research Business Unit	Daveid5 0	0																		--:-- --:--	--:-- --:--	--:-- --:--		
0000000006 Research Business Unit	Daveid6 0	0																		--:-- --:--	--:-- --:--	--:-- --:--		
0000000007 Production Business Unit	Daveid7 0	0																		--:-- --:--	--:-- --:--	--:-- --:--		
0000000008 Production	Daveid8 0	0																		--:-- --:--	--:-- --:--	--:-- --:--		

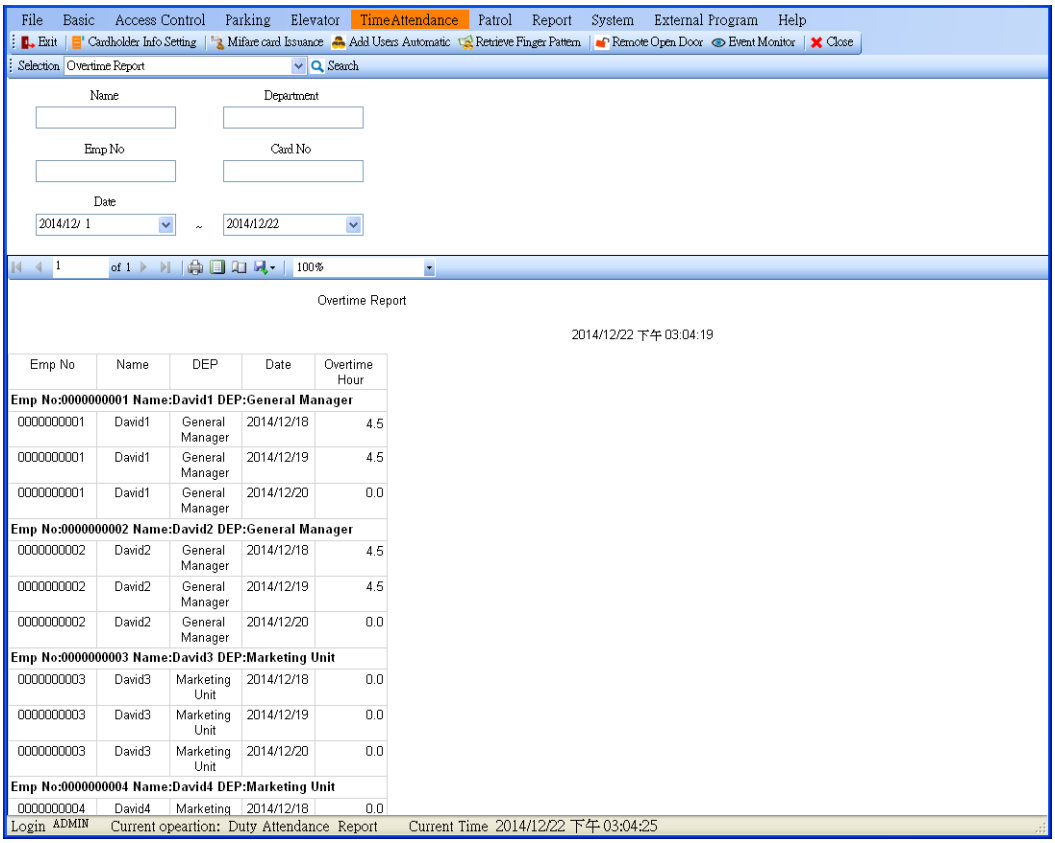
8-9-5 ON leave Report

Specify the range according to name, department, employee no, card no and Month selection.



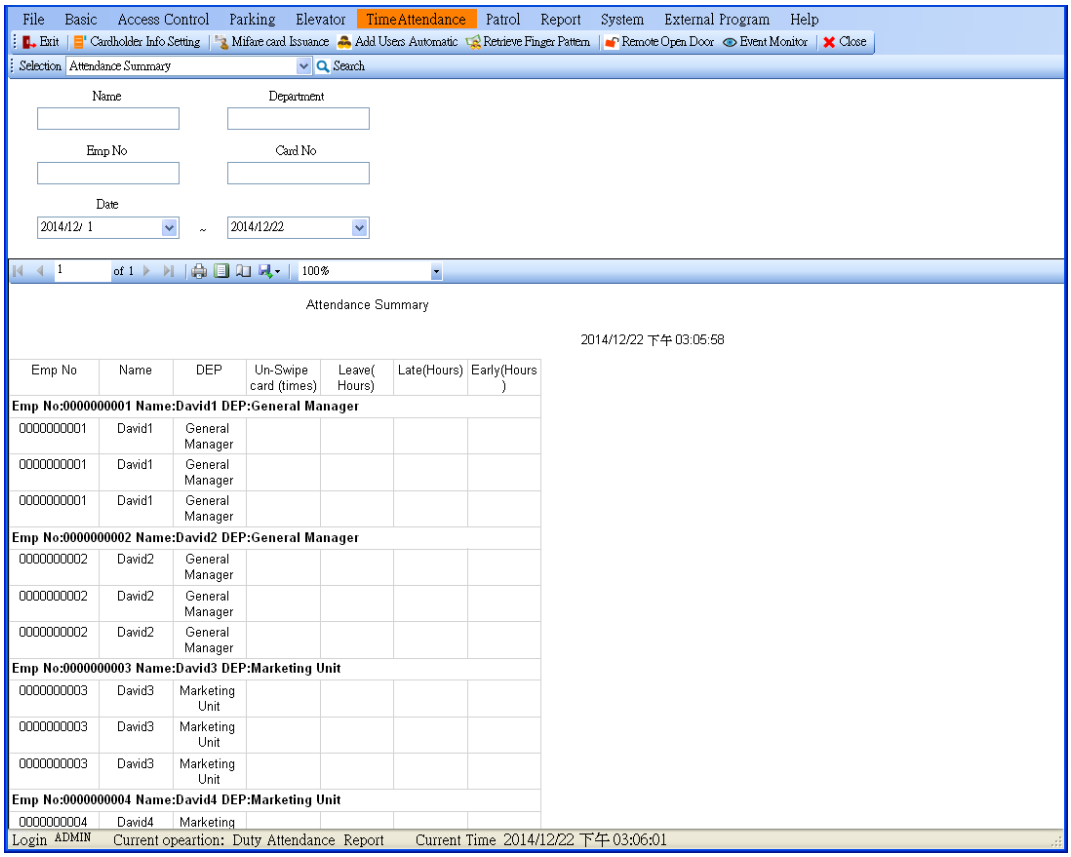
8-9-6 Overtime Report

Specify the range according to name, department, employee no, card no and Month selection.



8-9-7 Attendance Summary

Specify the range according to name, department, employee no, card no and Month selection.



9. Patrol

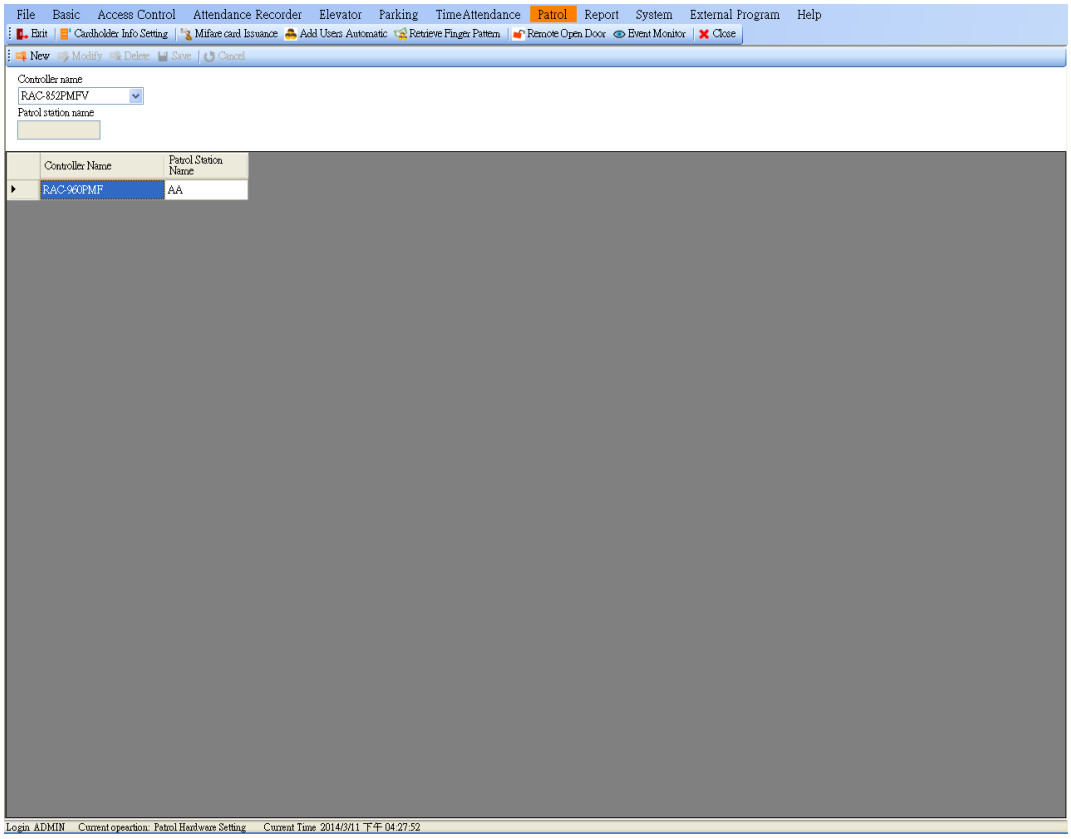
Please add device in “Access Control Hardware Setting” workspace first. And refer to 5-1-4 parameter 3. For patrol settings, please tick boxes of Gate1/2 (Reader ID 1、3) and activate slave reader (Reader ID 2、4). Settings might be different depending on the actual installation setup.

9-1 Patrol Hardware Setting

It defines station name of patrol points.

Operation Steps：

1. Click「New」。
2. Select controller
3. Input patrol station name
4. Click「Save」to save the settings.



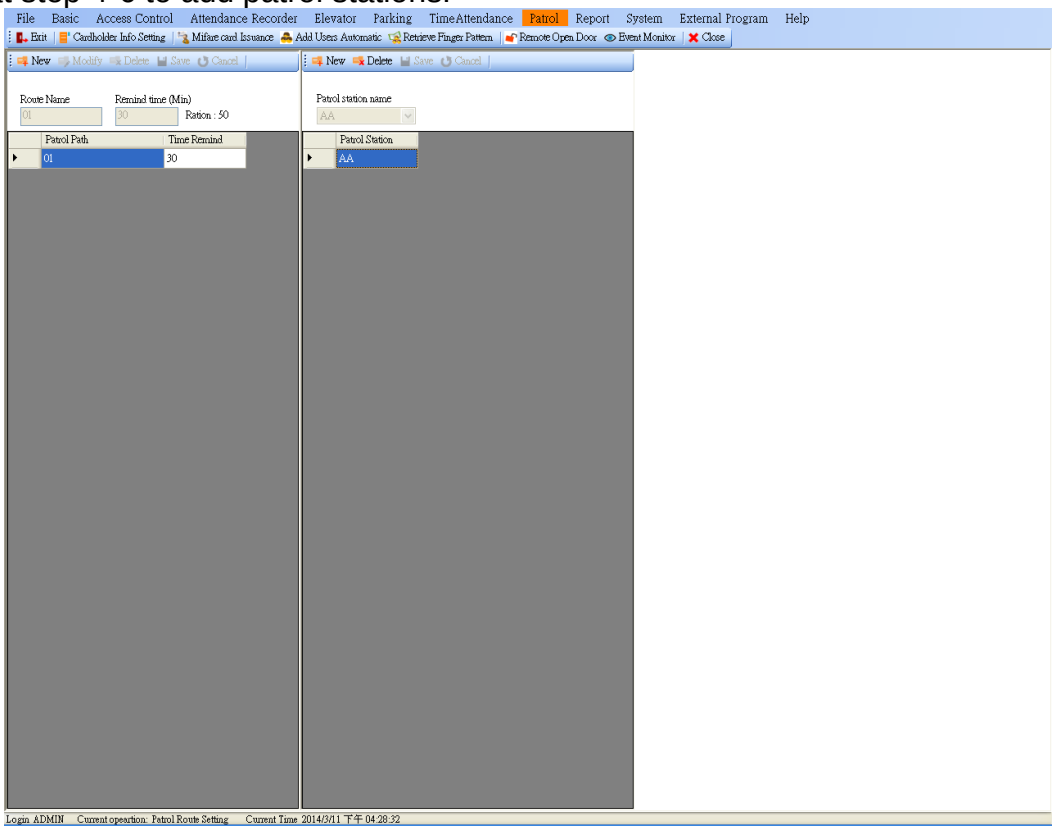
9-2 Patrol Route Setting

Sets patrol station to be visited in a patrol route.

Operation Steps：

There are two sections, left side is patrol route setting and right side is patrol station setting.

1. Click「New」on left panel.
2. Input patrol route name and remind time. (Remind time function is reserved)
3. Click 「Save」on the left panel.
4. Click 「New」 on the right panel.
5. Select station name to be patrolled.
6. Click「Save」to save the settings. If the patrol route has many patrol stations, please repeat step 4-6 to add patrol stations.

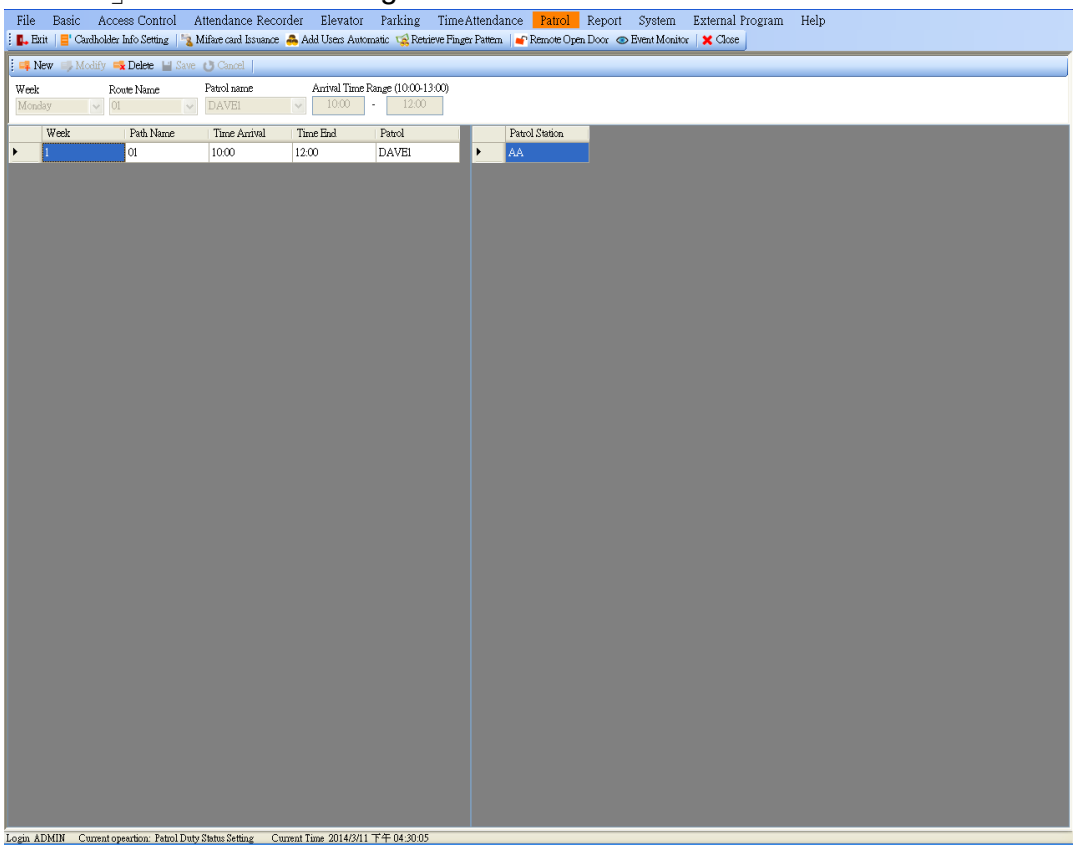


9-3 Patrol Duty Status Setting

It defines the patrol route every week.

Operation Steps：

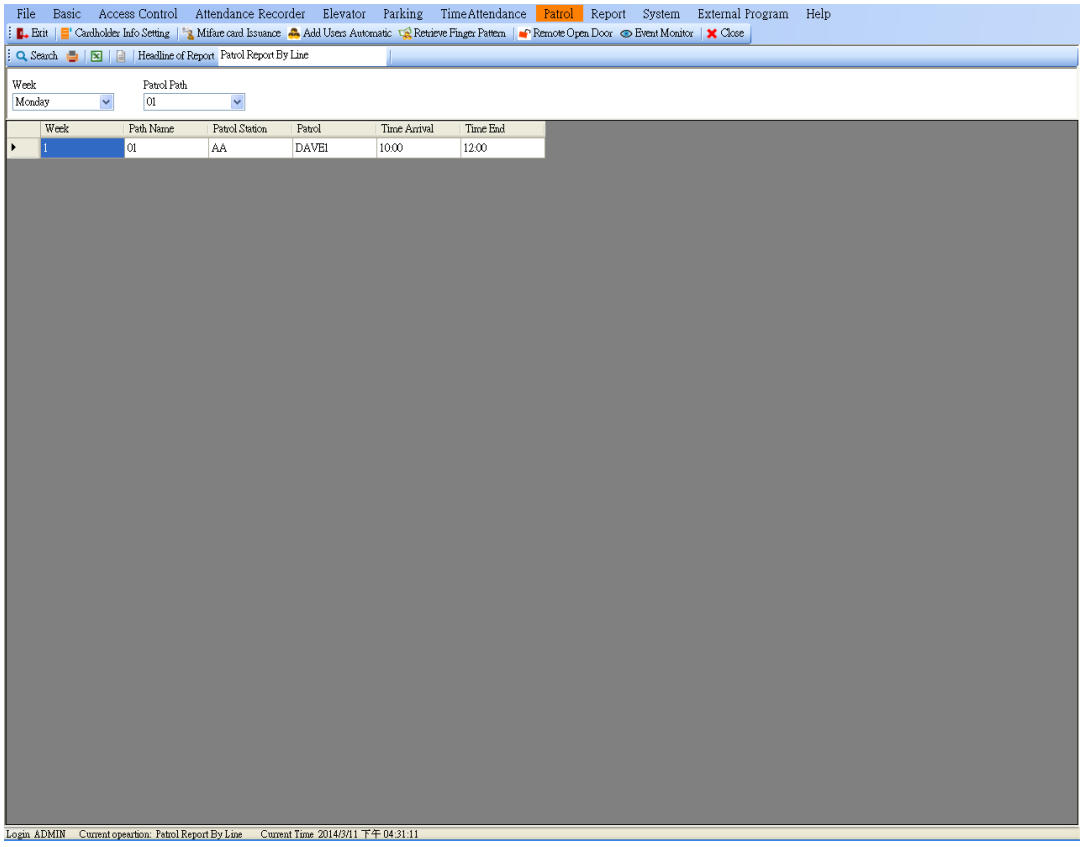
1. Click『New』
2. Select week and route name and input patrol name and arrival time range. When the specified patrol stations are not covered or the arrival time of the patrol guard is earlier than the set arrival time range, the system will activate the alarm to remind central station that not all patrol routes is covered or arrival time mismatch has occurred. (Alarm function is reserved)
3. Click「Save」to save the settings.



9-4 Patrol Report By Line

Specify the range of patrol records according to week and patrol route.

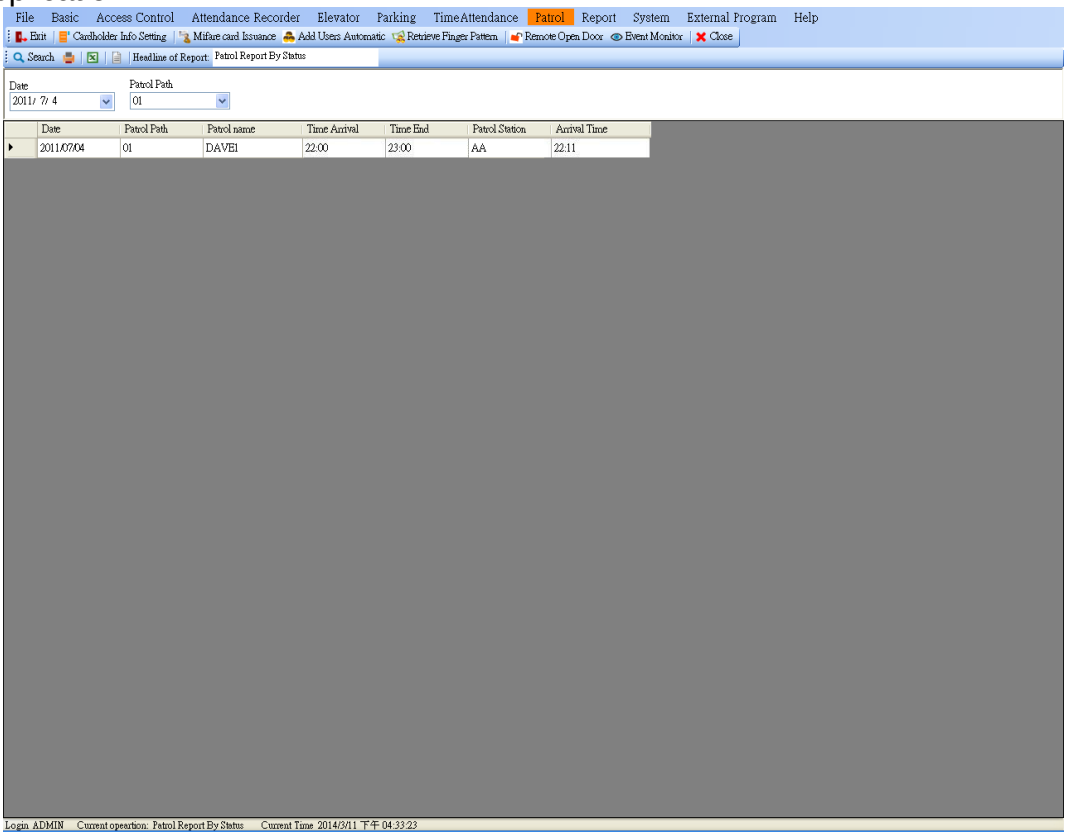
Report provides print and preview function and can be converted to TXT or XLS format for other application.



9-5 Patrol Report By Status

Specify the range of patrol records according to date and patrol route.

Report provides print and preview function and can be converted to TXT or XLS format for other application.



10. Report

Report provides print and can be converted to TXT or XLS format with user-defined report title for other application. The search key provides different criteria for every report in order to generate the user's desired report.

- Report icons description：

：Print

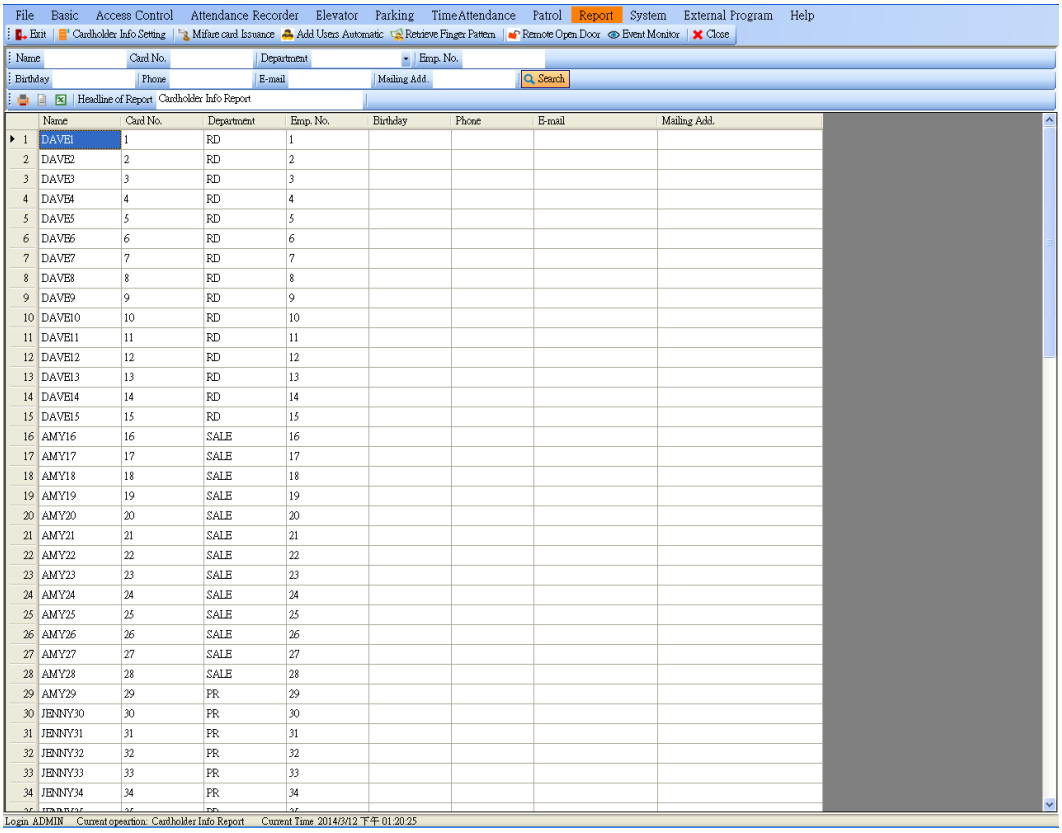
：Print to TXT format

：Print to XLS format

：Report column is remove able (Support First-Last Report, Unknown Report and First-Last Monthly Report only)

10-1 Cardholder Info. Report

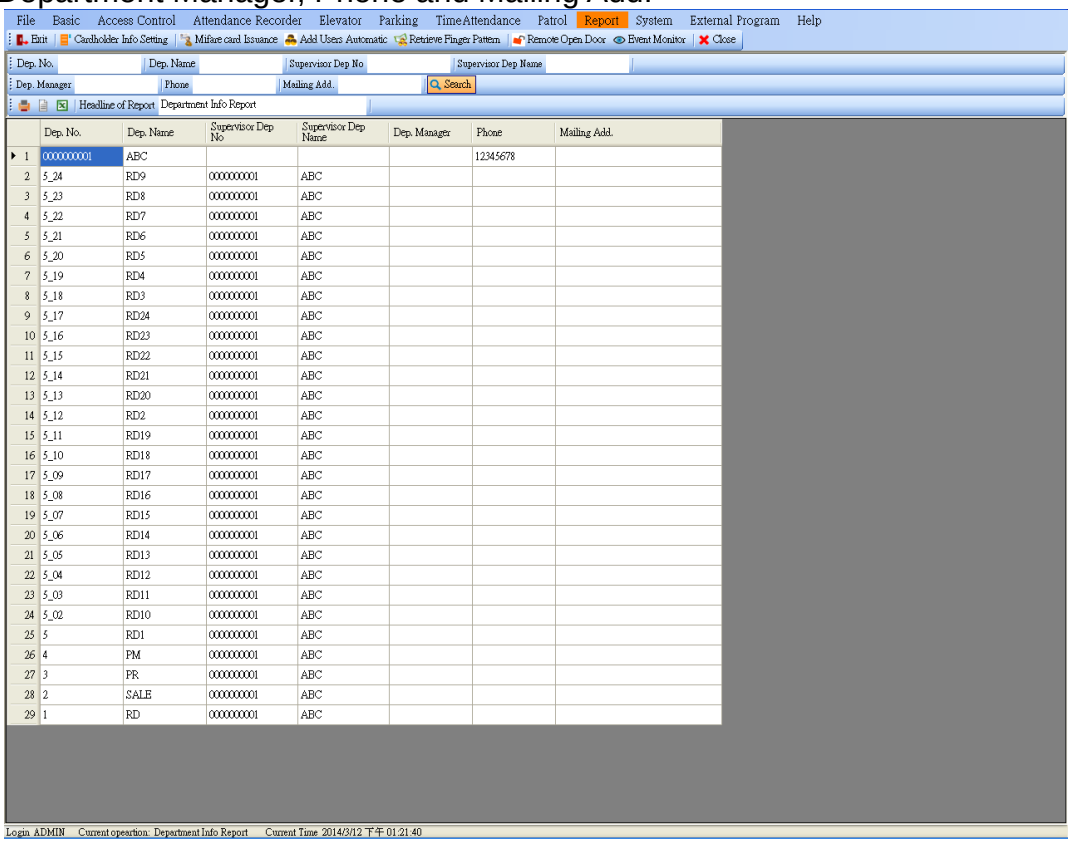
Lists complete cardholder information. Specify the range of cardholder information according to cardholder name, Card No., department, Emp. No., Birthday, Phone, E-mail and Mailing Add.



	Name	Card No.	Department	Emp. No.	Birthday	Phone	E-mail	Mailing Add.
1	DAVE1	1	RD	1				
2	DAVE2	2	RD	2				
3	DAVE3	3	RD	3				
4	DAVE4	4	RD	4				
5	DAVE5	5	RD	5				
6	DAVE6	6	RD	6				
7	DAVE7	7	RD	7				
8	DAVE8	8	RD	8				
9	DAVE9	9	RD	9				
10	DAVE10	10	RD	10				
11	DAVE11	11	RD	11				
12	DAVE12	12	RD	12				
13	DAVE13	13	RD	13				
14	DAVE14	14	RD	14				
15	DAVE15	15	RD	15				
16	AMY16	16	SALE	16				
17	AMY17	17	SALE	17				
18	AMY18	18	SALE	18				
19	AMY19	19	SALE	19				
20	AMY20	20	SALE	20				
21	AMY21	21	SALE	21				
22	AMY22	22	SALE	22				
23	AMY23	23	SALE	23				
24	AMY24	24	SALE	24				
25	AMY25	25	SALE	25				
26	AMY26	26	SALE	26				
27	AMY27	27	SALE	27				
28	AMY28	28	SALE	28				
29	AMY29	29	PR	29				
30	JENNY30	30	PR	30				
31	JENNY31	31	PR	31				
32	JENNY32	32	PR	32				
33	JENNY33	33	PR	33				
34	JENNY34	34	PR	34				

10-2 Department Info. Report

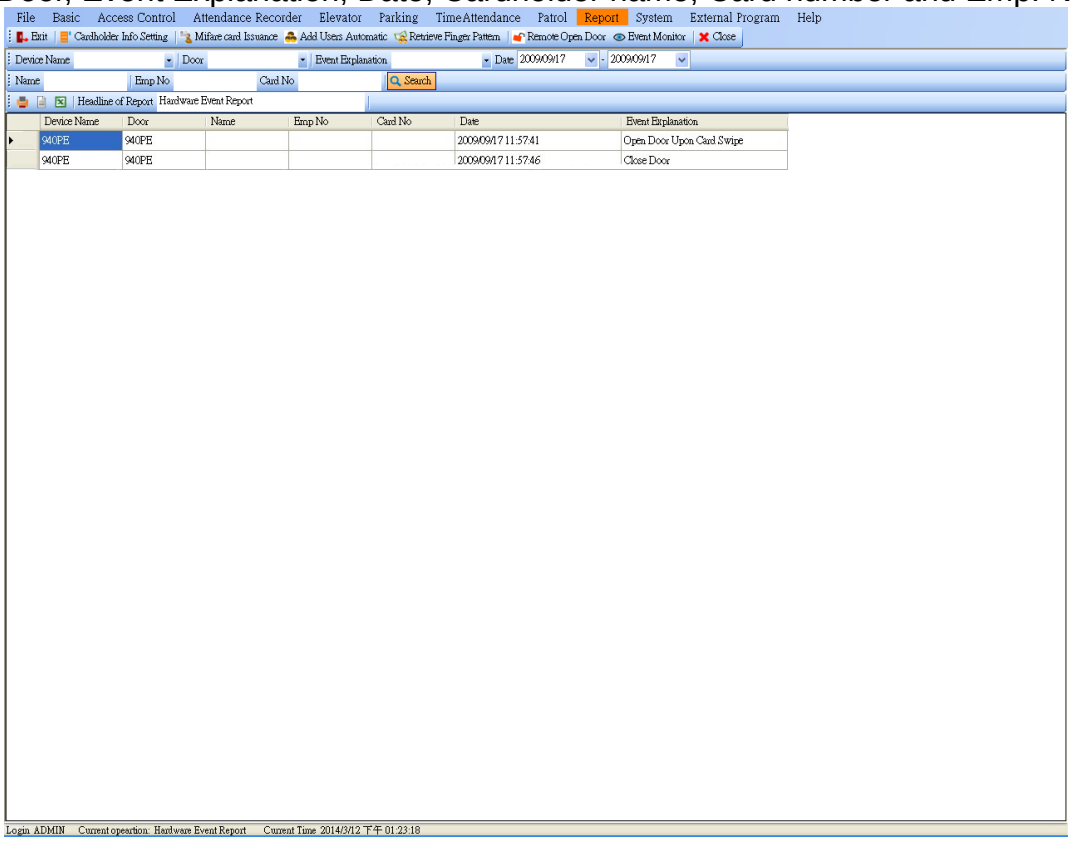
Lists complete department information. Specify the range of department information according to Department name, Department number, Supervisor Dep. No., Supervisor Dep. Name, Department Manager, Phone and Mailing Add.



	Dep. No.	Dep. Name	Supervisor Dep No	Supervisor Dep Name	Dep. Manager	Phone	Mailing Add.
1	0000000001	ABC				12345678	
2	5_24	RD9	0000000001	ABC			
3	5_23	RD8	0000000001	ABC			
4	5_22	RD7	0000000001	ABC			
5	5_21	RD6	0000000001	ABC			
6	5_20	RD5	0000000001	ABC			
7	5_19	RD4	0000000001	ABC			
8	5_18	RD3	0000000001	ABC			
9	5_17	RD24	0000000001	ABC			
10	5_16	RD23	0000000001	ABC			
11	5_15	RD22	0000000001	ABC			
12	5_14	RD21	0000000001	ABC			
13	5_13	RD20	0000000001	ABC			
14	5_12	RD2	0000000001	ABC			
15	5_11	RD19	0000000001	ABC			
16	5_10	RD18	0000000001	ABC			
17	5_09	RD17	0000000001	ABC			
18	5_08	RD16	0000000001	ABC			
19	5_07	RD15	0000000001	ABC			
20	5_06	RD14	0000000001	ABC			
21	5_05	RD13	0000000001	ABC			
22	5_04	RD12	0000000001	ABC			
23	5_03	RD11	0000000001	ABC			
24	5_02	RD10	0000000001	ABC			
25	5	RD1	0000000001	ABC			
26	4	PM	0000000001	ABC			
27	3	PR	0000000001	ABC			
28	2	SALE	0000000001	ABC			
29	1	RD	0000000001	ABC			

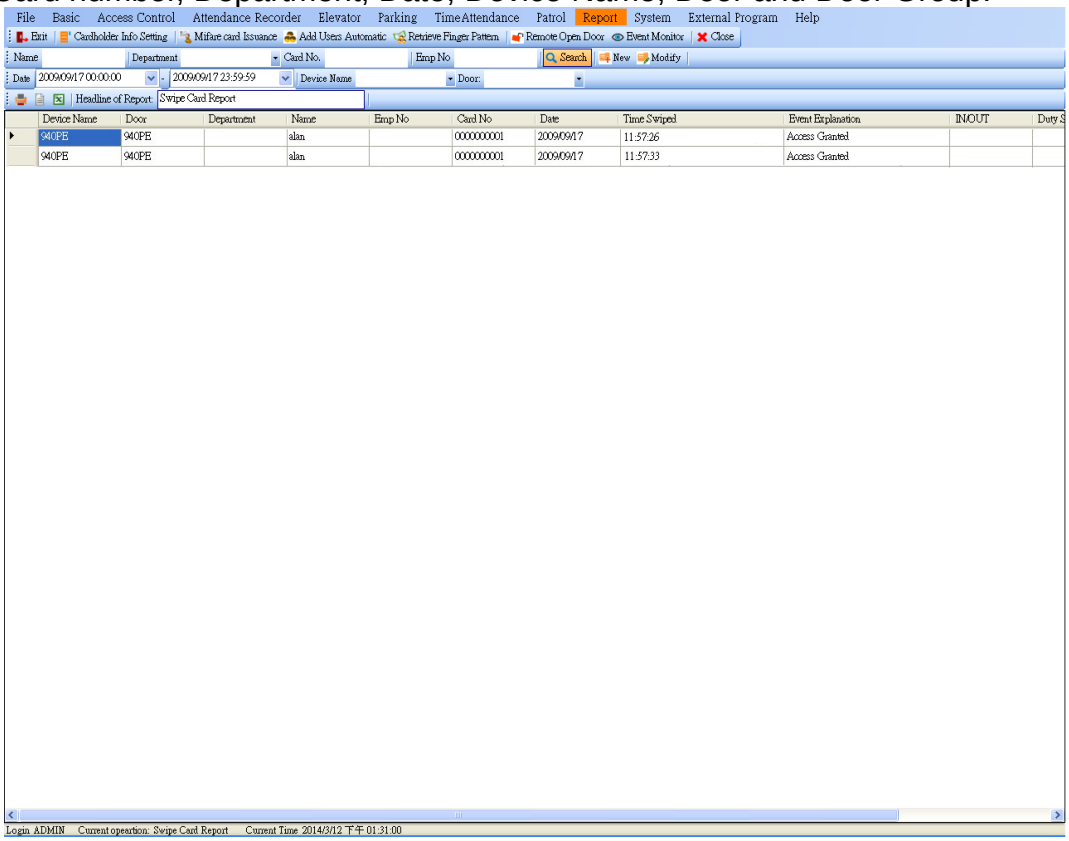
10-3 Hardware Event Report

Lists complete hardware event. Specify the range of hardware event according to Device Name, Door, Event Explanation, Date, Cardholder name, Card number and Emp. No..



10-4 Swipe card report

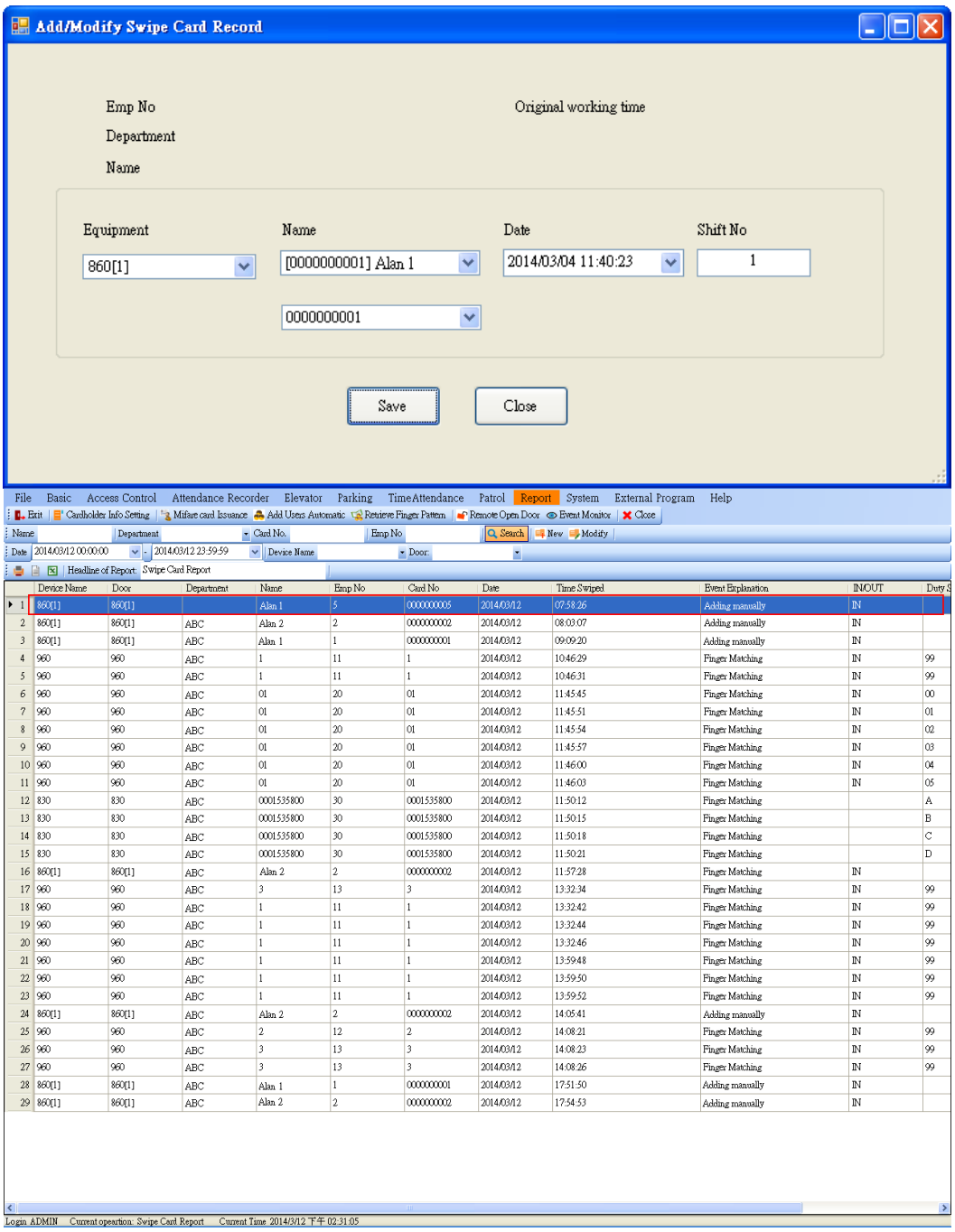
Lists swiped card records. Specify the range of swipe card records according to Cardholder name, Card number, Department, Date, Device Name, Door and Door Group.



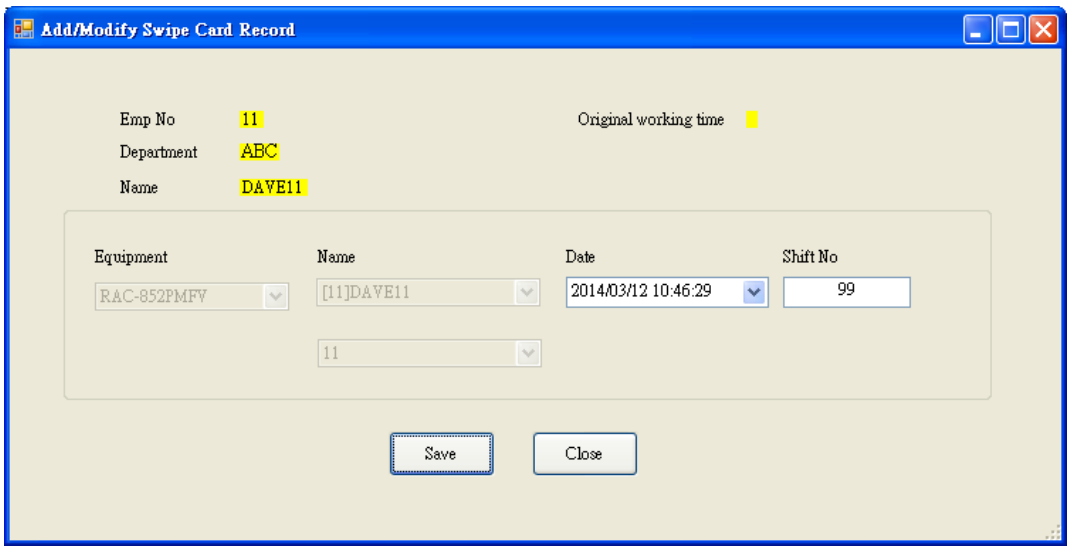
Operator may add or modify swipe card records. (HTA-860PxF/HTA-870PxF/HTA-871PxF only)

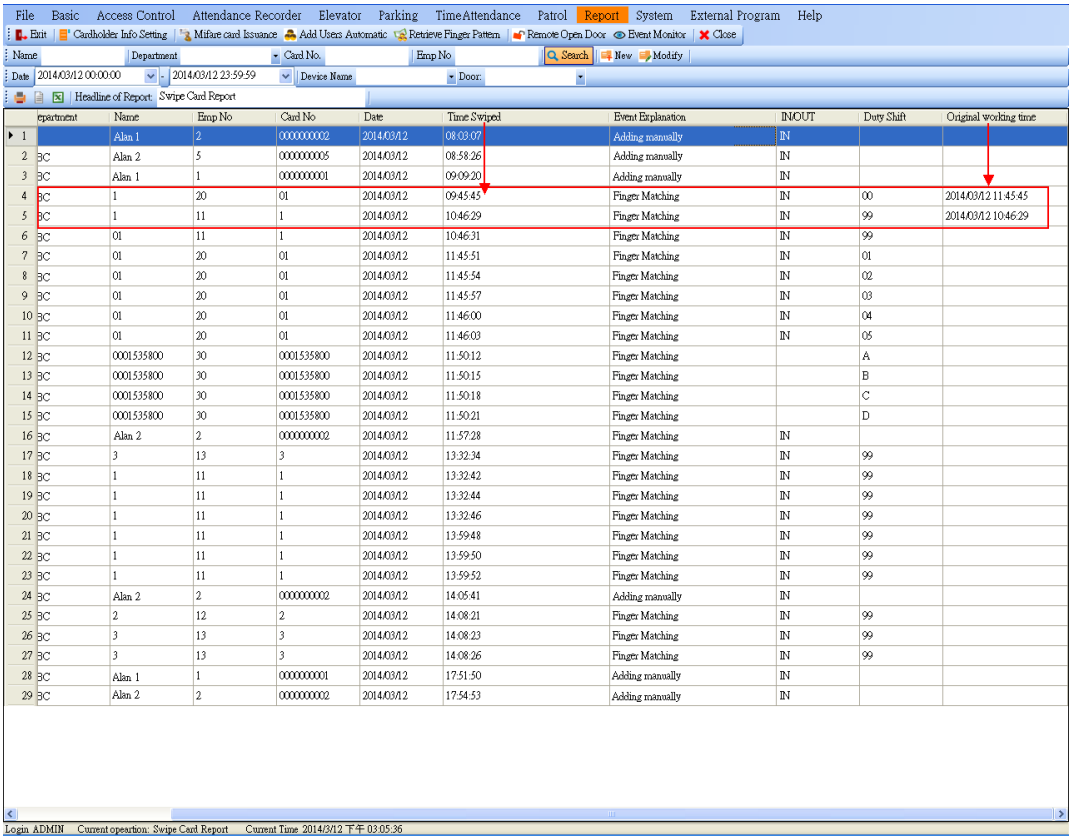
Operation Steps:

1. Please click [Search] to get current swipe card records.
2. Click [New] and system will pop up a new window.
3. Click [Save] to save the adding in the database.
4. The new data will display “Adding manually“ message in the Event Explanation.



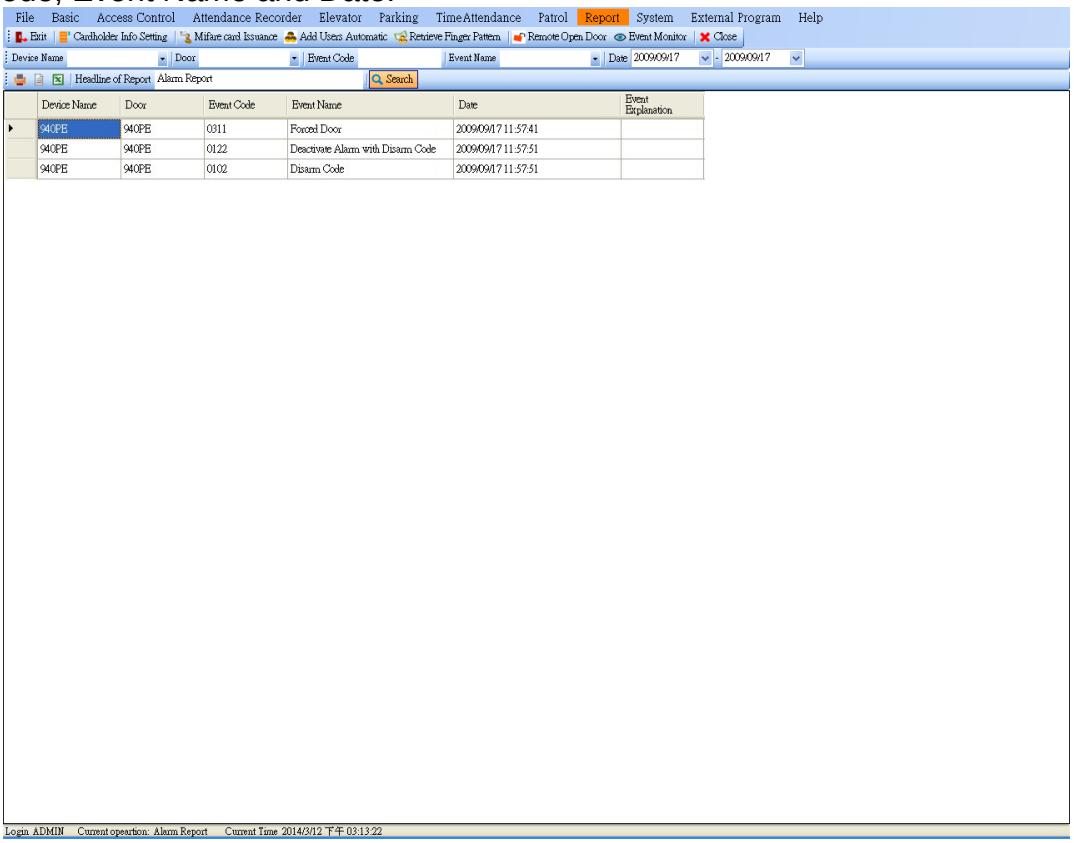
5. Or after get current swipe card records, you can select a user which you want to modify.
6. Click [New] and system will pop up a new window.
7. Click [Save] to save the modification in the database.
8. The original swipe card event may record in next column.


Add/Modify Swipe Card Record
Emp No
11
Original working time
Department
ABC
Name
DAVE11
Equipment
Name
Date
Shift No
RAC-852PMFV
[11]DAVE11
2014/03/12 10:46:29
99
11
Save
Close


File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Name Department Card No. Emp No Search New Modify
Date 2014/03/12 00:00:00 2014/03/12 23:59:59 Device Name Door:
Headline of Report: Swipe Card Report
Department Name Emp No Card No Date Time Swiped Event Explanation IN/OUT Duty Shift Original working time
1 Alan 1 2 0000000002 2014/03/12 08:03:07 Adding manually IN
2 BC Alan 2 5 0000000005 2014/03/12 08:58:26 Adding manually IN
3 BC Alan 1 1 0000000001 2014/03/12 09:09:20 Adding manually IN
4 BC 1 20 01 2014/03/12 09:45:45 Finger Matching IN 00 2014/03/12 11:45:45
5 BC 1 11 1 2014/03/12 10:46:29 Finger Matching IN 99 2014/03/12 10:46:29
6 BC 01 11 1 2014/03/12 10:46:31 Finger Matching IN 99
7 BC 01 20 01 2014/03/12 11:45:51 Finger Matching IN 01
8 BC 01 20 01 2014/03/12 11:45:54 Finger Matching IN 02
9 BC 01 20 01 2014/03/12 11:45:57 Finger Matching IN 03
10 BC 01 20 01 2014/03/12 11:46:00 Finger Matching IN 04
11 BC 01 20 01 2014/03/12 11:46:03 Finger Matching IN 05
12 BC 0001535800 30 0001535800 2014/03/12 11:50:12 Finger Matching A
13 BC 0001535800 30 0001535800 2014/03/12 11:50:15 Finger Matching B
14 BC 0001535800 30 0001535800 2014/03/12 11:50:18 Finger Matching C
15 BC 0001535800 30 0001535800 2014/03/12 11:50:21 Finger Matching D
16 BC Alan 2 2 0000000002 2014/03/12 11:57:28 Finger Matching IN
17 BC 3 13 3 2014/03/12 13:32:34 Finger Matching IN 99
18 BC 1 11 1 2014/03/12 13:32:42 Finger Matching IN 99
19 BC 1 11 1 2014/03/12 13:32:44 Finger Matching IN 99
20 BC 1 11 1 2014/03/12 13:32:46 Finger Matching IN 99
21 BC 1 11 1 2014/03/12 13:59:48 Finger Matching IN 99
22 BC 1 11 1 2014/03/12 13:59:50 Finger Matching IN 99
23 BC 1 11 1 2014/03/12 13:59:52 Finger Matching IN 99
24 BC Alan 2 2 0000000002 2014/03/12 14:05:41 Adding manually IN
25 BC 2 12 2 2014/03/12 14:08:21 Finger Matching IN 99
26 BC 3 13 3 2014/03/12 14:08:23 Finger Matching IN 99
27 BC 3 13 3 2014/03/12 14:08:26 Finger Matching IN 99
28 BC Alan 1 1 0000000001 2014/03/12 17:51:50 Adding manually IN
29 BC Alan 2 2 0000000002 2014/03/12 17:54:53 Adding manually IN
Login ADMIN Current opeartion: Swipe Card Report Current Time 2014/3/12 下午 03:05:36

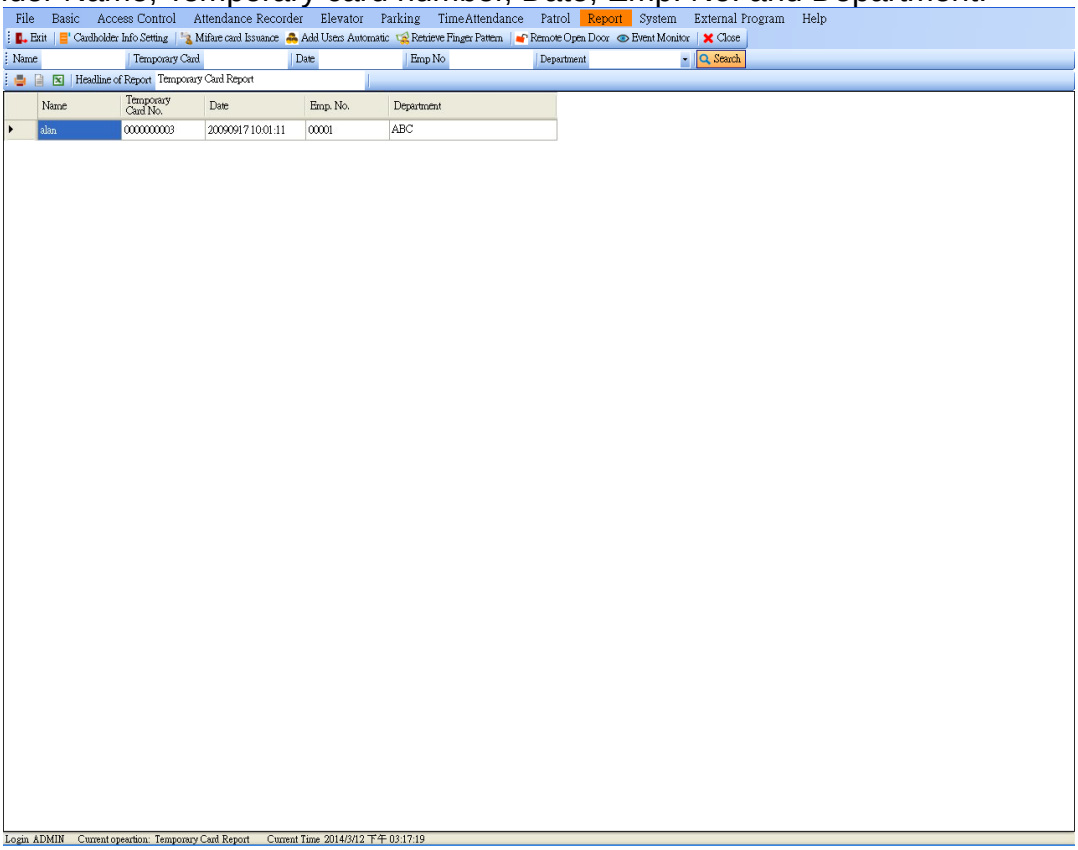
10-5 Alarm Report

Lists alarm records. Specify the range of alarm records according to Device Name, Door, Event code, Event Name and Date.



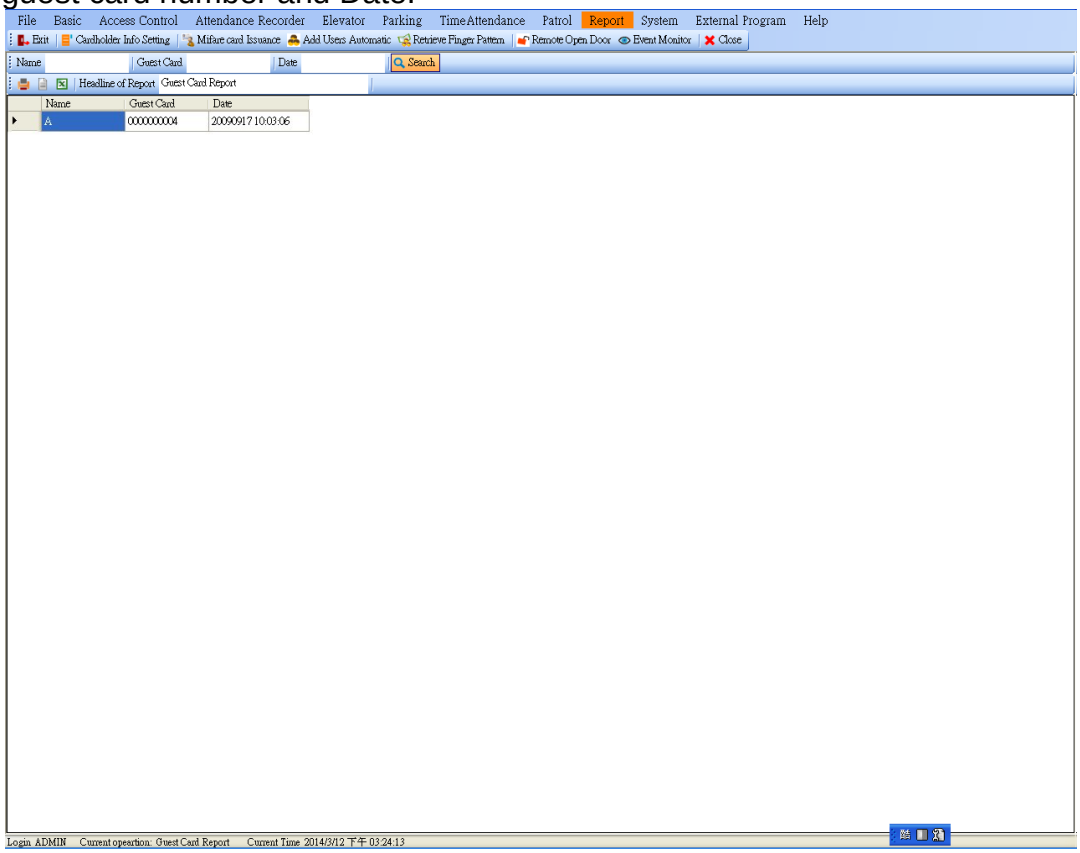
10-6 Temporary Card Report

Lists temporary card swiped records. Specify the range of swiped card records according to Cardholder Name, Temporary card number, Date, Emp. No. and Department.



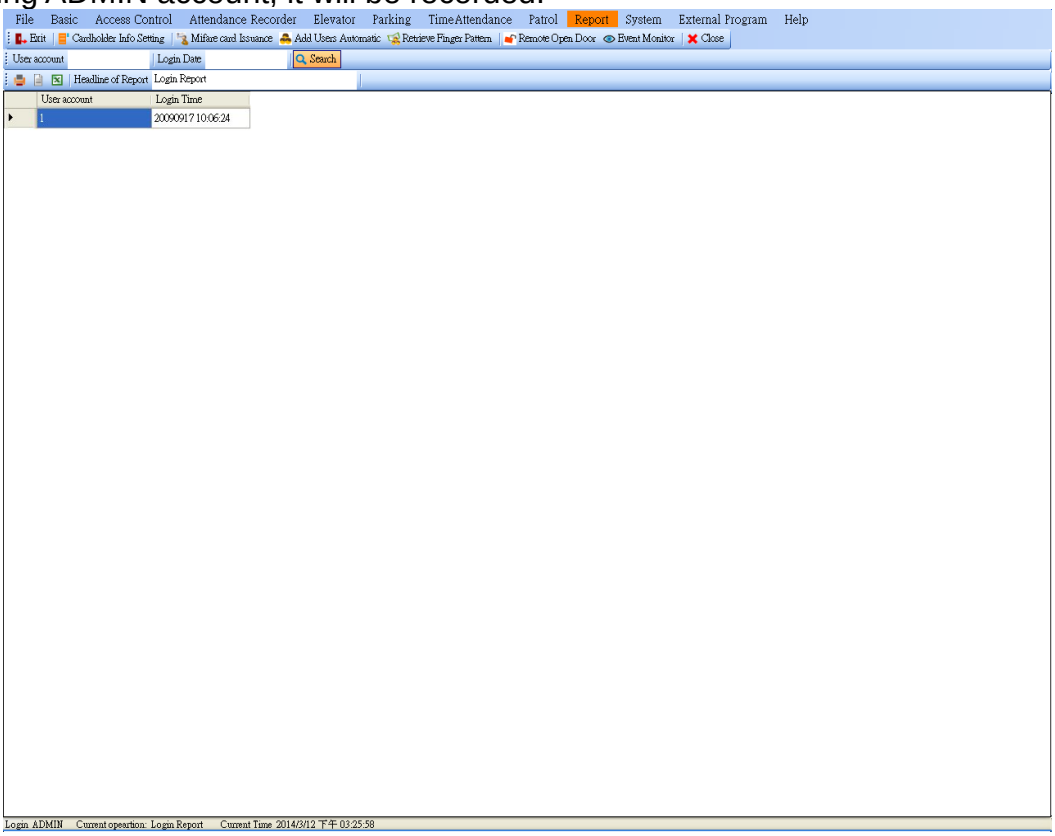
10-7 Guest Card Report

Lists guest card records. Specify the range of swiped card records according to Cardholder Name, guest card number and Date.



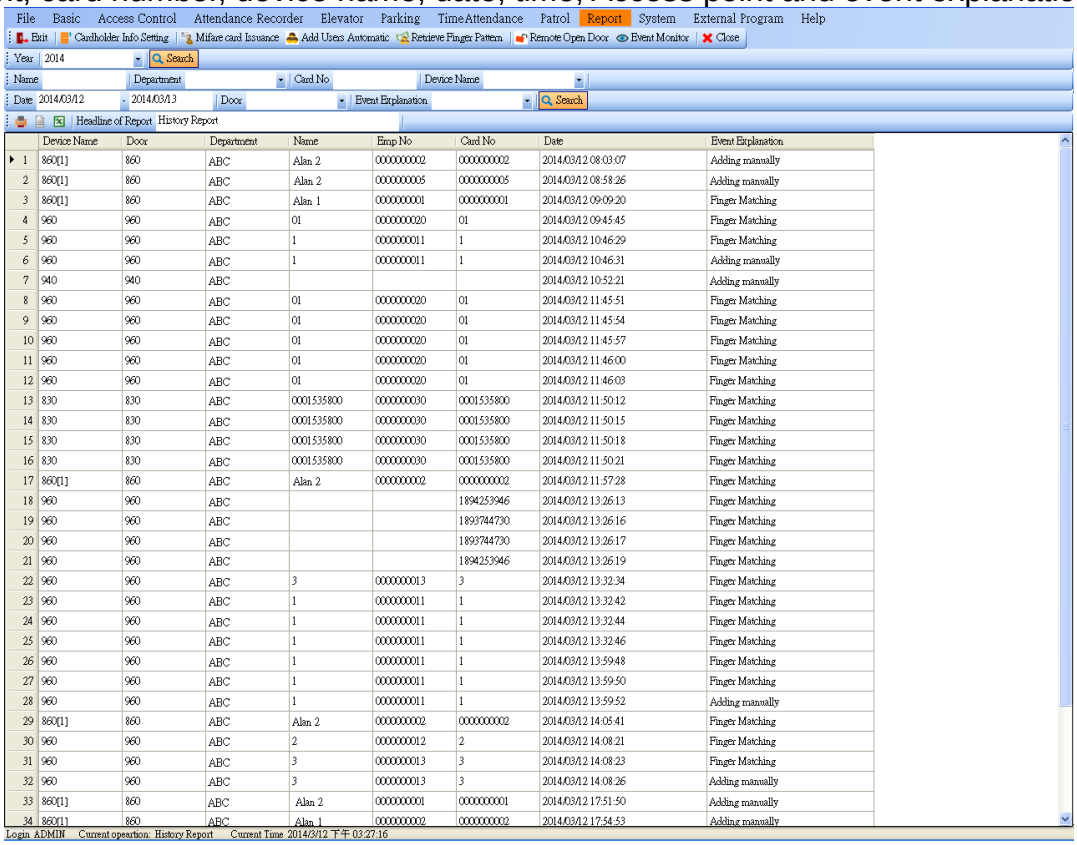
10-8 Login Report

Lists login records. Specify the range of login records according to User account. If operator login using ADMIN account, it will be recorded.



10-9 History Report

List all history records by year. Specify the range of history records according name, department, card number, device name, date, time, Access point and event explanation.

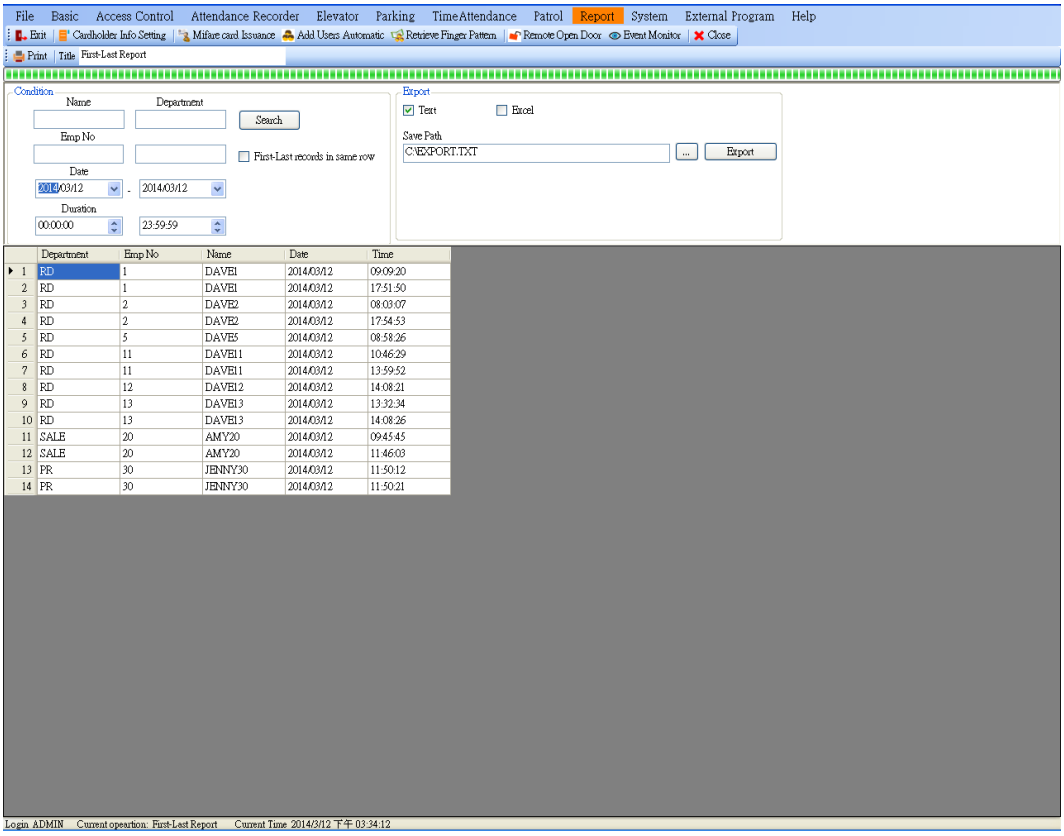


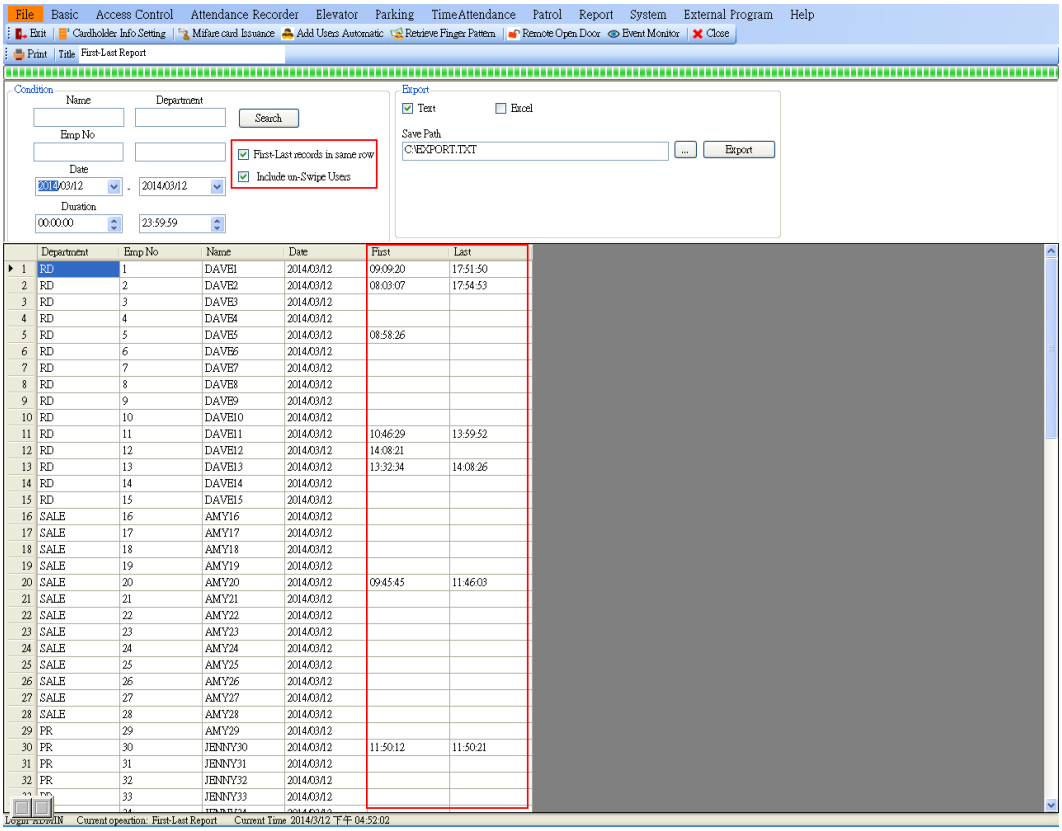
	Device Name	Door	Department	Name	Emp No	Card No	Date	Event Explanation
1	860[1]	860	ABC	Alan 2	0000000002	0000000002	2014/03/12 08:03:07	Adding manually
2	860[1]	860	ABC	Alan 2	0000000005	0000000005	2014/03/12 08:58:26	Adding manually
3	860[1]	860	ABC	Alan 1	0000000001	0000000001	2014/03/12 09:09:20	Finger Matching
4	960	960	ABC	01	0000000020	01	2014/03/12 09:45:45	Finger Matching
5	960	960	ABC	1	0000000011	1	2014/03/12 10:46:29	Finger Matching
6	960	960	ABC	1	0000000011	1	2014/03/12 10:46:31	Adding manually
7	940	940	ABC				2014/03/12 10:52:21	Adding manually
8	960	960	ABC	01	0000000020	01	2014/03/12 11:45:51	Finger Matching
9	960	960	ABC	01	0000000020	01	2014/03/12 11:45:54	Finger Matching
10	960	960	ABC	01	0000000020	01	2014/03/12 11:45:57	Finger Matching
11	960	960	ABC	01	0000000020	01	2014/03/12 11:46:00	Finger Matching
12	960	960	ABC	01	0000000020	01	2014/03/12 11:46:03	Finger Matching
13	830	830	ABC	0001535800	0000000030	0001535800	2014/03/12 11:50:12	Finger Matching
14	830	830	ABC	0001535800	0000000030	0001535800	2014/03/12 11:50:15	Finger Matching
15	830	830	ABC	0001535800	0000000030	0001535800	2014/03/12 11:50:18	Finger Matching
16	830	830	ABC	0001535800	0000000030	0001535800	2014/03/12 11:50:21	Finger Matching
17	860[1]	860	ABC	Alan 2	0000000002	0000000002	2014/03/12 11:57:28	Finger Matching
18	960	960	ABC			1894253946	2014/03/12 13:26:13	Finger Matching
19	960	960	ABC			1893744730	2014/03/12 13:26:16	Finger Matching
20	960	960	ABC			1893744730	2014/03/12 13:26:17	Finger Matching
21	960	960	ABC			1894253946	2014/03/12 13:26:19	Finger Matching
22	960	960	ABC	3	0000000013	3	2014/03/12 13:32:34	Finger Matching
23	960	960	ABC	1	0000000011	1	2014/03/12 13:32:42	Finger Matching
24	960	960	ABC	1	0000000011	1	2014/03/12 13:32:44	Finger Matching
25	960	960	ABC	1	0000000011	1	2014/03/12 13:32:46	Finger Matching
26	960	960	ABC	1	0000000011	1	2014/03/12 13:59:48	Finger Matching
27	960	960	ABC	1	0000000011	1	2014/03/12 13:59:50	Finger Matching
28	960	960	ABC	1	0000000011	1	2014/03/12 13:59:52	Adding manually
29	860[1]	860	ABC	Alan 2	0000000002	0000000002	2014/03/12 14:05:41	Finger Matching
30	960	960	ABC	2	0000000012	2	2014/03/12 14:08:21	Finger Matching
31	960	960	ABC	3	0000000013	3	2014/03/12 14:08:23	Finger Matching
32	960	960	ABC	3	0000000013	3	2014/03/12 14:08:26	Adding manually
33	860[1]	860	ABC	Alan 2	0000000001	0000000001	2014/03/12 17:51:50	Adding manually
34	860[1]	860	ABC	Alan 1	0000000002	0000000002	2014/03/12 17:54:53	Adding manually

10-10 First-Last Report

Lists first and last access record. Specify the range of first-last information according to Cardholder Name, Department, Emp. No., Date and Un-swipe Users selection.

Click [First-Last records in same row], system will display first in and last out records in the same row. Otherwise, the records will display in a same space and two lines.
[Include un-swipe users]: when tick the check box, this report may list all users, event the users do not swipe card.

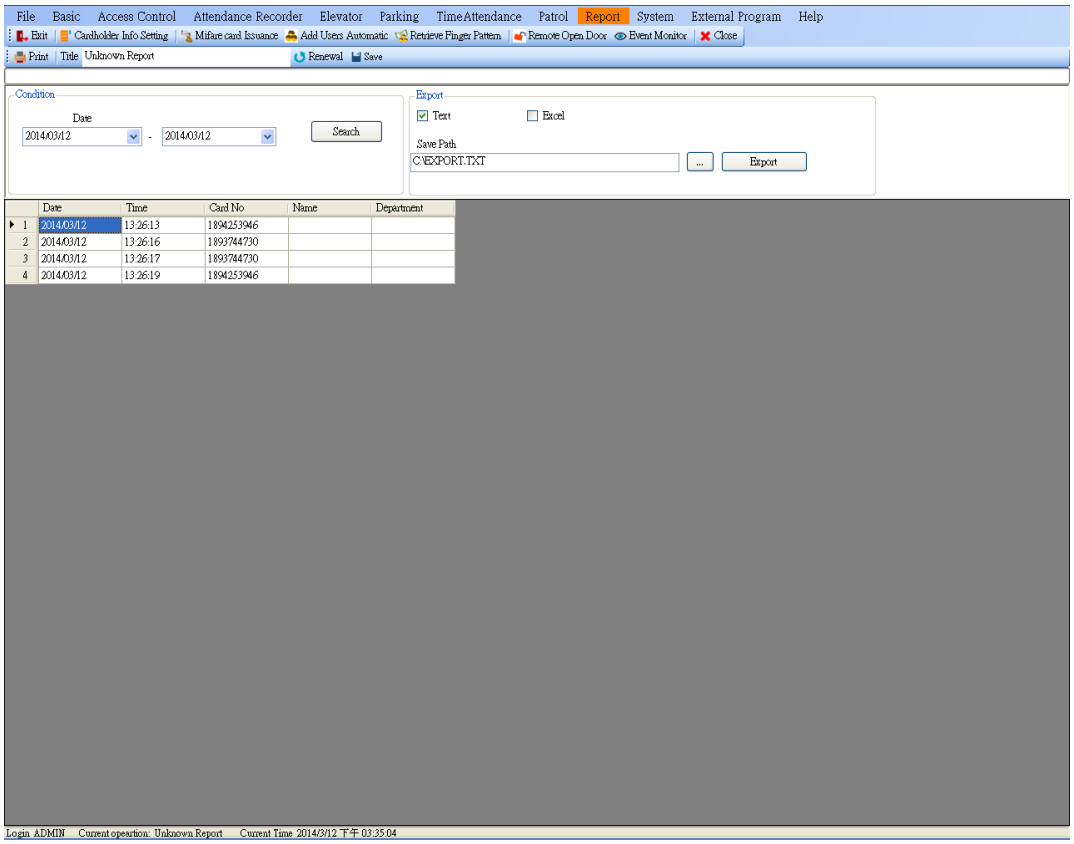



File Basic Access Control Attendance Recorder Elevator Parking TimeAttendance Patrol Report System External Program Help
Exit Cardholder Info Setting Mifare card Issuance Add Users Automatic Retrieve Finger Pattern Remote Open Door Event Monitor Close
Print Title First-Last Report
Condition
Name
Department
Search
Emp No
First-Last records in same row
Include un-Swipe Users
Date
2014/03/12
2014/03/12
Duration
00:00:00
23:59:59
Export
Text
Excel
Save Path
C:\EXPORT.TXT
Export
Department Emp No Name Date First Last
1 RD 1 DAVE1 2014/03/12 09:09:20 17:51:50
2 RD 2 DAVE2 2014/03/12 08:03:07 17:54:53
3 RD 3 DAVE3 2014/03/12
4 RD 4 DAVE4 2014/03/12
5 RD 5 DAVE5 2014/03/12 08:58:26
6 RD 6 DAVE6 2014/03/12
7 RD 7 DAVE7 2014/03/12
8 RD 8 DAVE8 2014/03/12
9 RD 9 DAVE9 2014/03/12
10 RD 10 DAVE10 2014/03/12
11 RD 11 DAVE11 2014/03/12 10:46:29 13:59:52
12 RD 12 DAVE12 2014/03/12 14:08:21
13 RD 13 DAVE13 2014/03/12 13:32:34 14:08:26
14 RD 14 DAVE14 2014/03/12
15 RD 15 DAVE15 2014/03/12
16 SALE 16 AMY16 2014/03/12
17 SALE 17 AMY17 2014/03/12
18 SALE 18 AMY18 2014/03/12
19 SALE 19 AMY19 2014/03/12
20 SALE 20 AMY20 2014/03/12 09:45:45 11:46:03
21 SALE 21 AMY21 2014/03/12
22 SALE 22 AMY22 2014/03/12
23 SALE 23 AMY23 2014/03/12
24 SALE 24 AMY24 2014/03/12
25 SALE 25 AMY25 2014/03/12
26 SALE 26 AMY26 2014/03/12
27 SALE 27 AMY27 2014/03/12
28 SALE 28 AMY28 2014/03/12
29 PR 29 AMY29 2014/03/12
30 PR 30 JENNY30 2014/03/12 11:50:12 11:50:21
31 PR 31 JENNY31 2014/03/12
32 PR 32 JENNY32 2014/03/12
33 JENNY33 2014/03/12
Current opeartion: First-Last Report
Current Time 2014/3/12 下午 04:52:02

10-11 Unknown Report

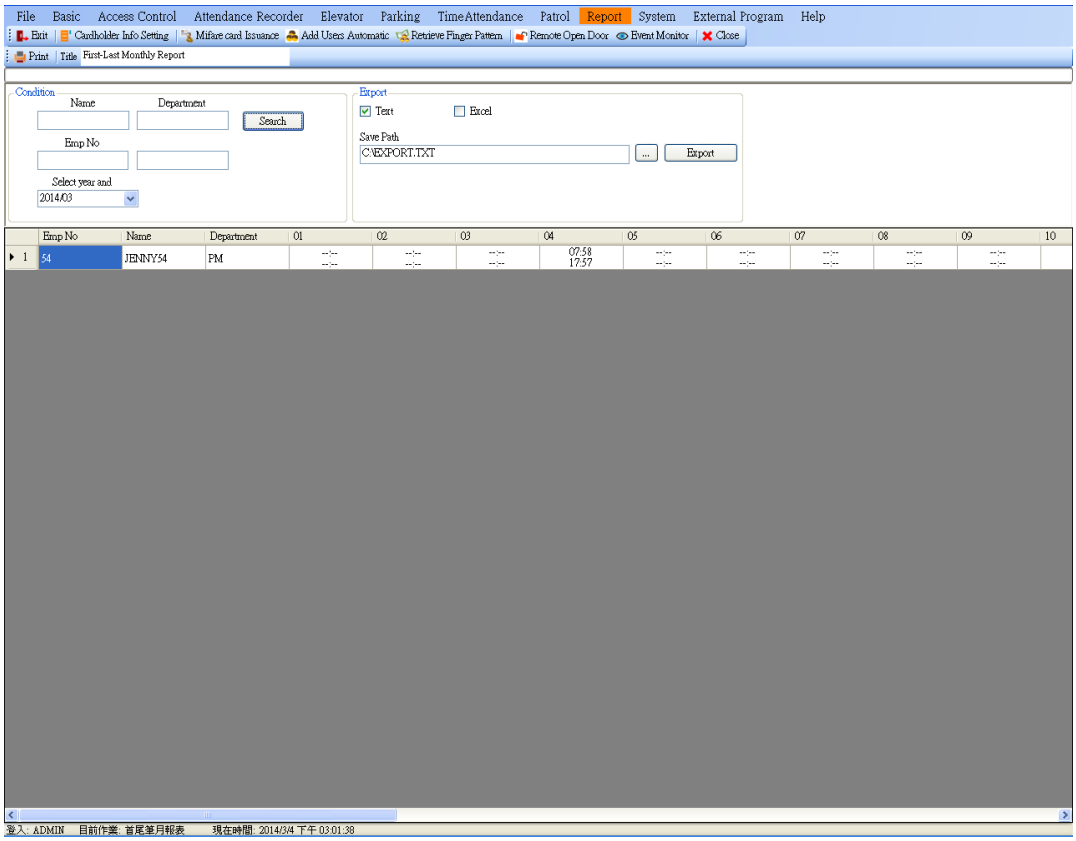
If retrieve records before adding cardholders' information, the records will be in unknown report. Once add cardholders information completed, please click [Renewal], system may compare current card numbers and unknown records. Once has match information, the records will not display in unknown report.

Specify the range of unknown records according to date.



10-12 First-Last Monthly Report

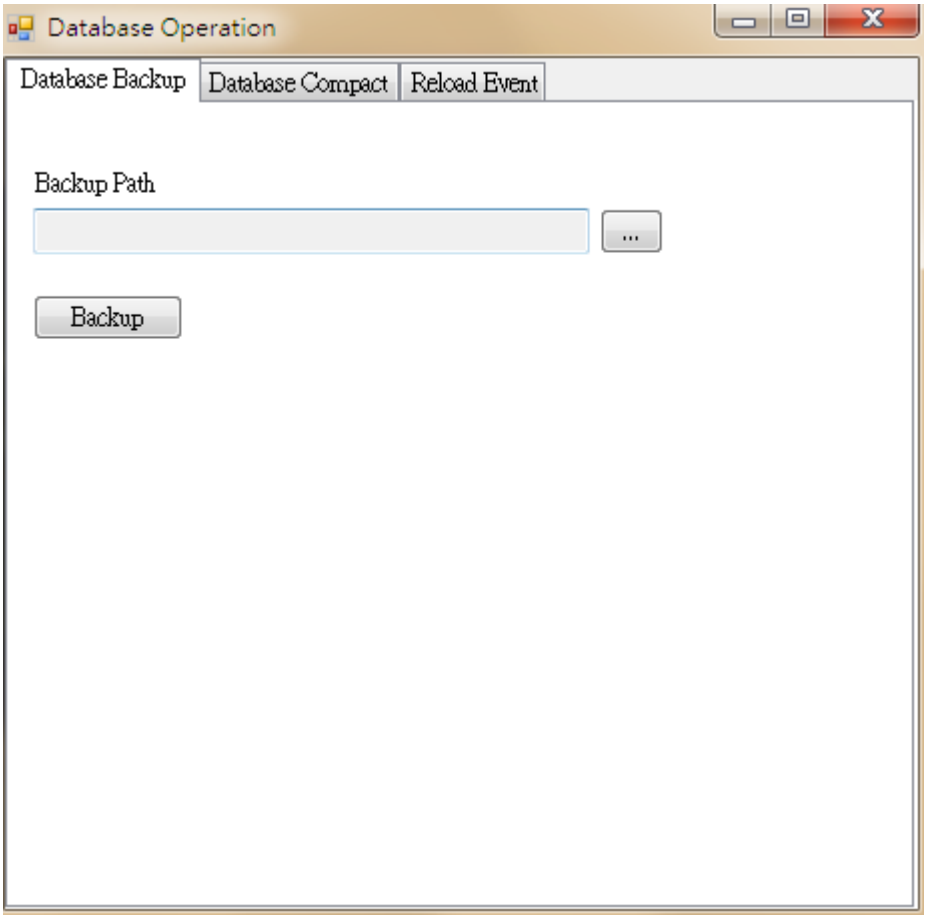
List first in and last out record by month. Specify the range of name, Department, Emp. no, year, and month.

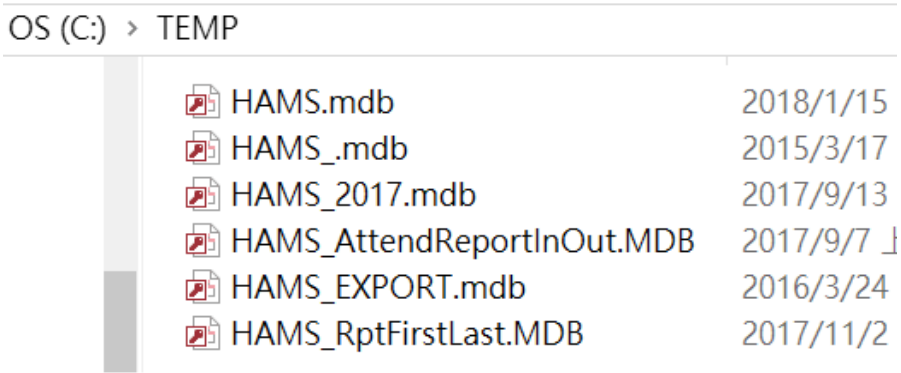


11. System

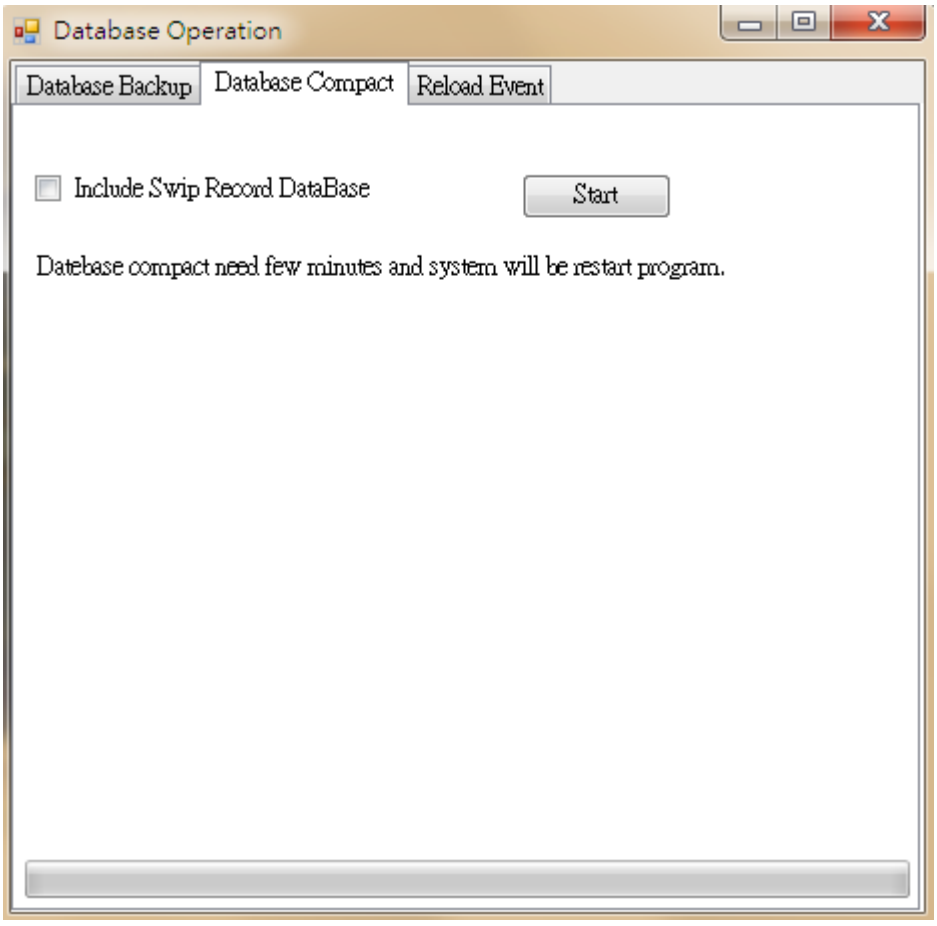
11-1 Database Operation

Database backup：Select backup path and click「Backup」to start the backup.

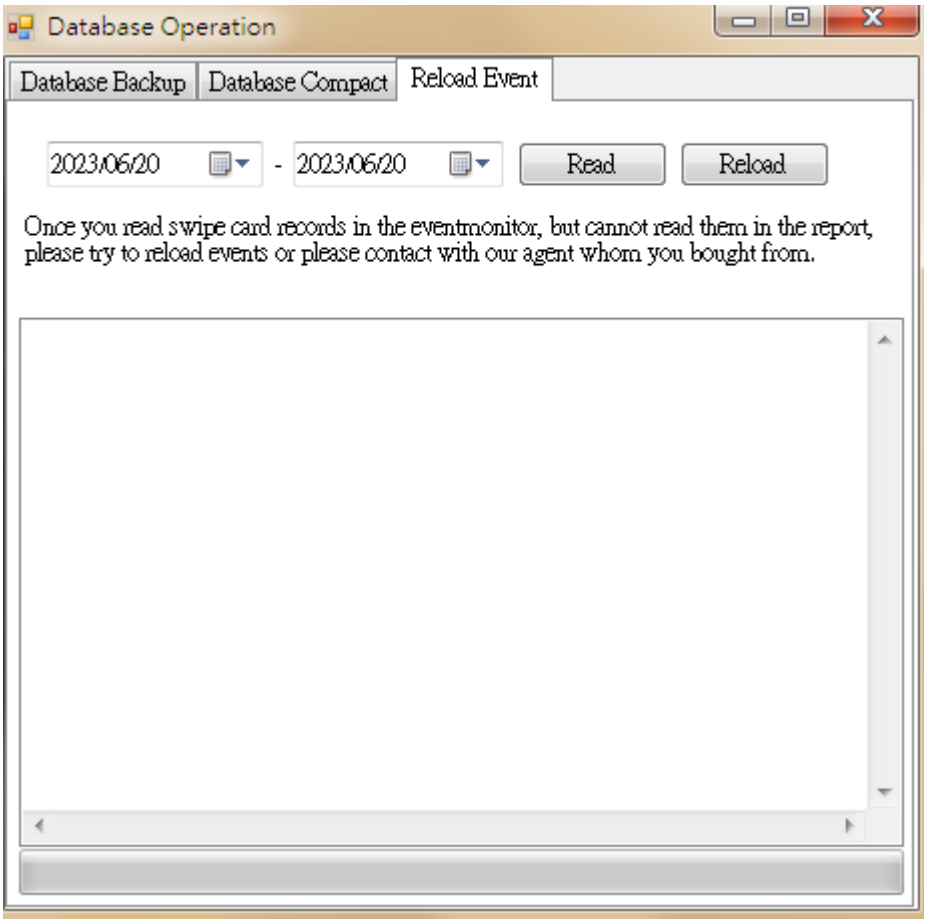




Database compact: Please backup database before compressing. Click [Start] to start the database compression. Database compression improves database efficiency. The system will restart after completion and user needs to login to the system again.



Reload Event: Re-loading swipe card records which has been retrieved into database.
In case that swipe card records are not stored in the database when retrieving records, you can try this function to re loading records into database again.



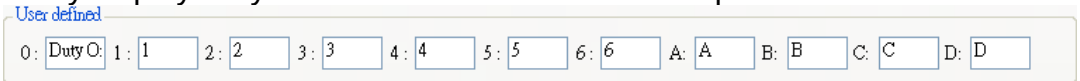
11-2 Schedule Setup

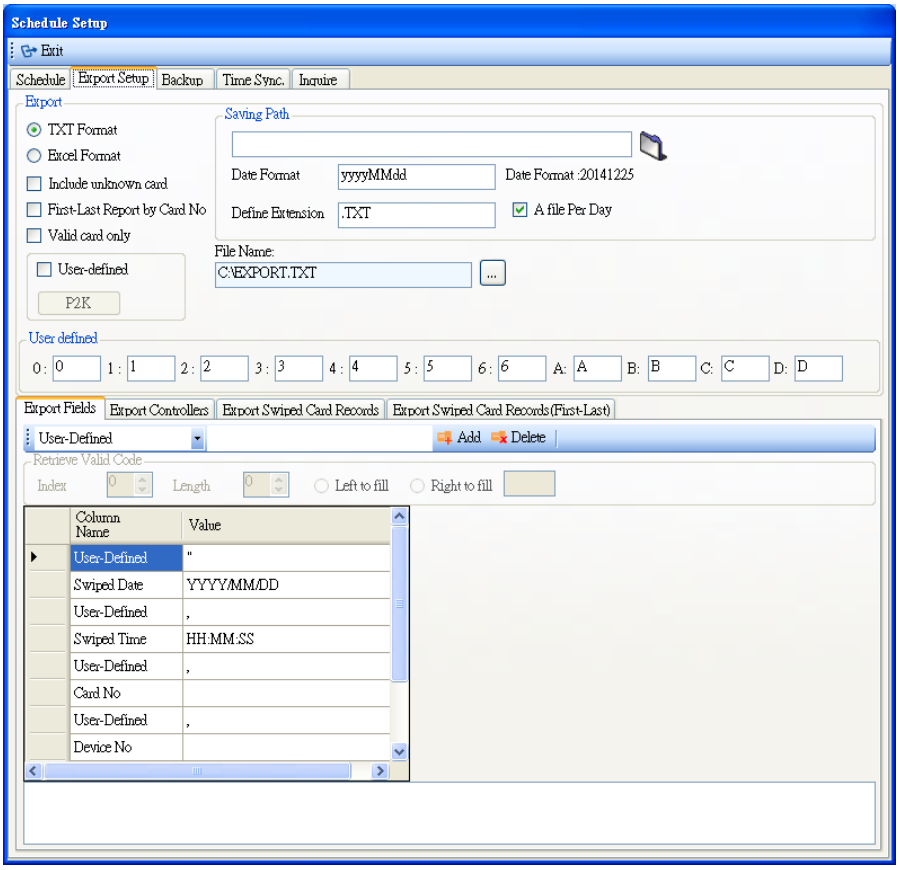
11-2-1 Export Setup

The system supports schedule setup for users to calibrate export, Sync, Backup, First-Last record , Polling export for auto-operation.

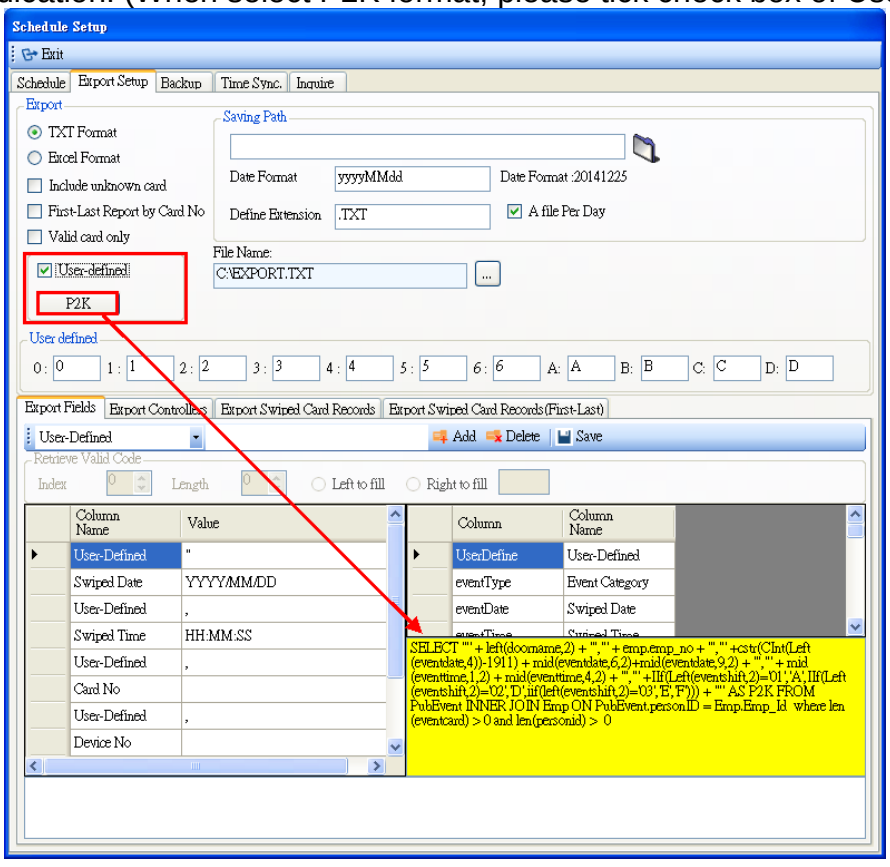
Before set schedule, follow parameters must be set first:

1. Select TXT or XLS format. (Select one format only)
2. Click [...] and select saving path or input the path directly. (When select XLS format, system can only use a fixed file name)
    1. Saving Path: Where operator wants to save the file. (system will transfer a file automatically base on the setting, file name will be YYYYMMDD.txt)
    2. Date Format：User define date format. Ex: MMDDYYYY or MMDDYY
    3. Define Extension：For TXT format.
    4. File Name: User-define file name. System will use same name every time. When next transaction, the new file will cover old file.
3. Include unknown card: When tick the check box, system will transfer unknown card records at the same time.
4. First-Last Report by Card No: Default export first-last report is base on employee number. When tick the check box, system may export first-last report by card number.
5. Valid Card Only: Only export valid card events.
6. User-defined: Yellow block is provided for special request; please do not modify it without indication.
7. User defined duty code: It is mainly to set duty name which display on the report. This function is suit for all recorders. Example: duty shift code 0 is modified to Duty On and report may display Duty on in shift number column of report.





8. P2K Format: System will transfer to P2K format for special request; please do not modify it without indication. (When select P2K format, please tick check box of User-defined)



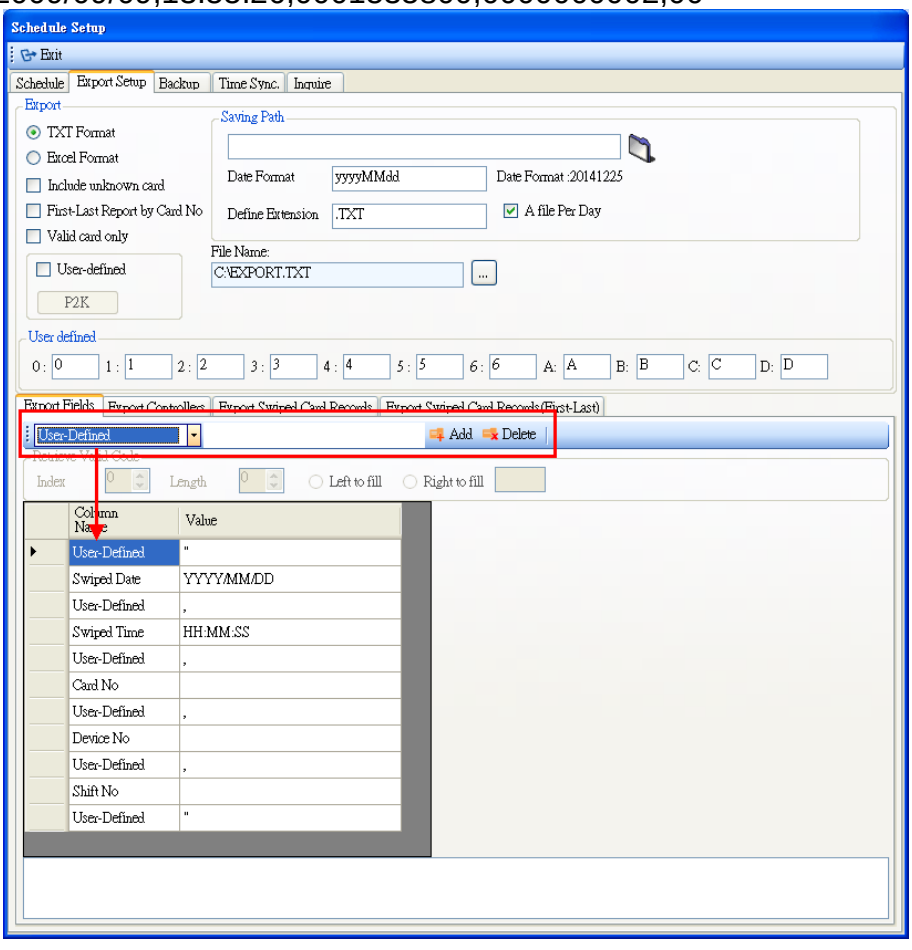
9. Export Fields: Select report contents which want to export. (Able select fields which system is provided)

   Example: Request export report contents include Swiped Date, Swiped Time, Card Number, Device ID, Shift Number, setting as below:

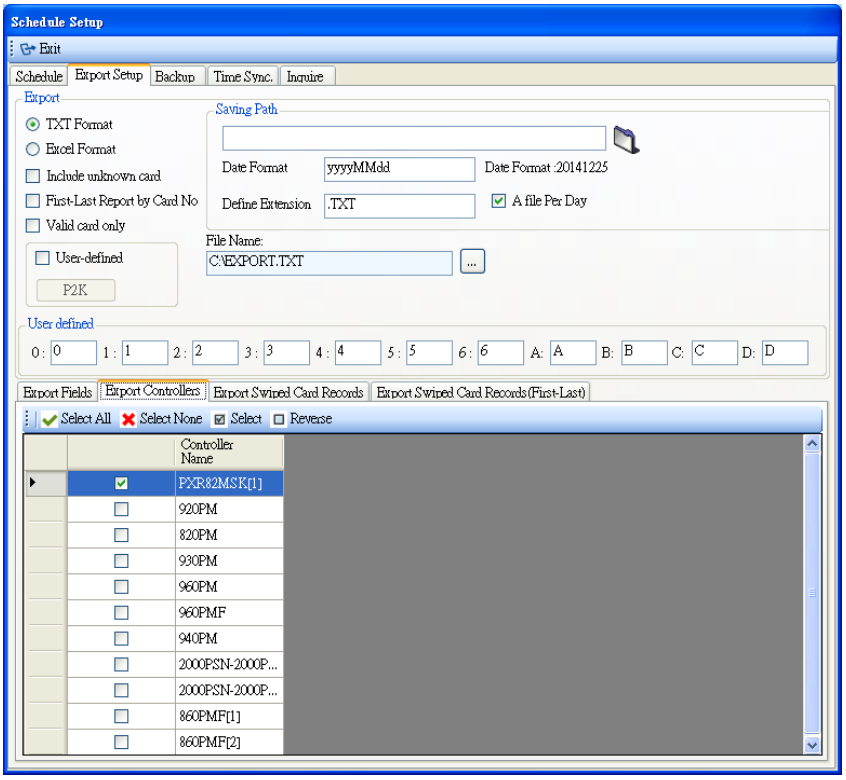
   1. Select User-Defined and input [”], then click [NEW].
   2. Select Swiped Date, and then click [NEW].
   3. Select User-Defined and input [,], then click [NEW].
   4. Select Swiped Time, and then click [NEW].
   5. Select User-Defined and input [,], then click [NEW].
   6. Select Card No., and then click [NEW].
   7. Select User-Defined and input [,], then click [NEW].
   8. Select Device ID, and then click [NEW].
   9. Select User-Defined and input [,], then click [NEW].
   10. Select Shift No., and then click [NEW].
   11. Select User-Defined and input [”], then click [NEW].

   The export report format as below：

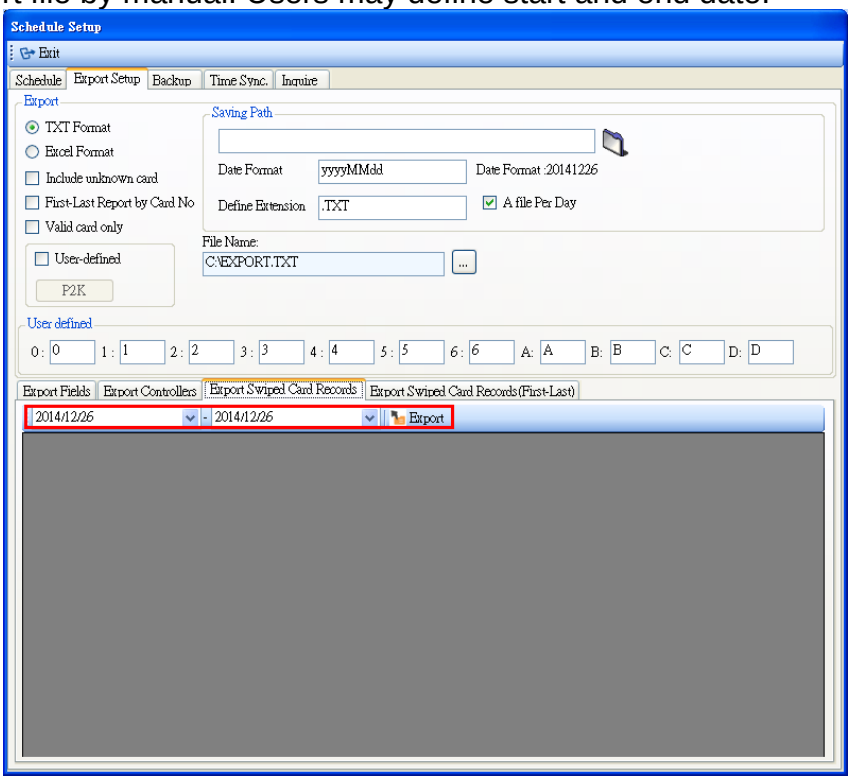
   "2009/09/09,13:55:26,0001535800,0000000002,00"



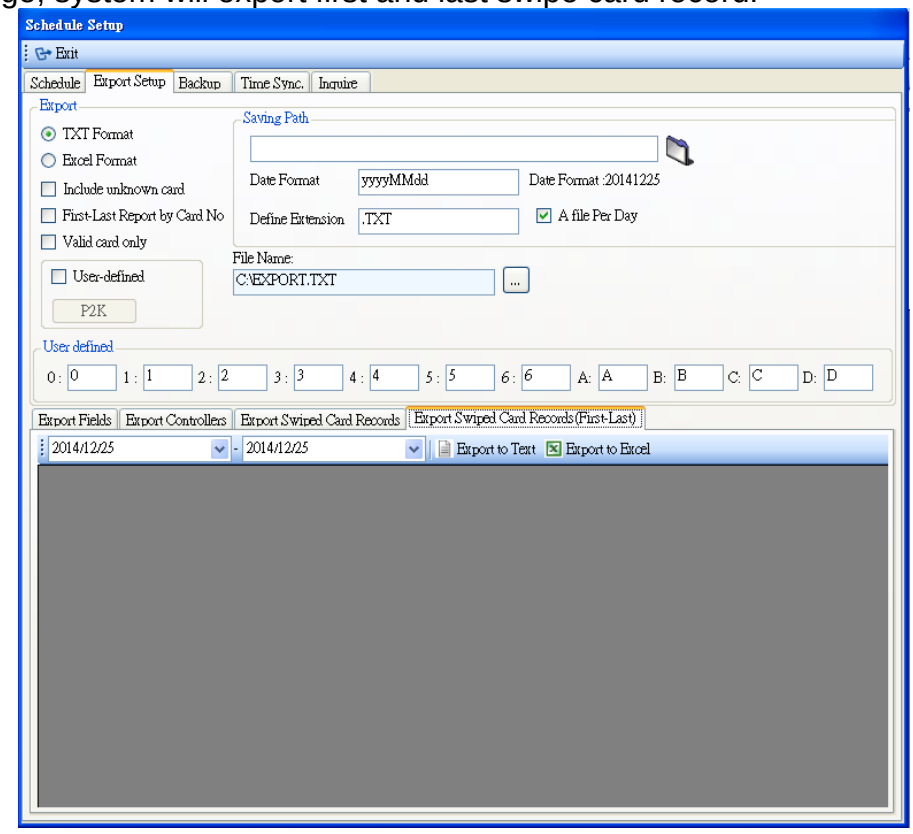
10. Export Controllers: Select the controller which wants to export records. And then click [Add].



11. Export Swiped Card Records: Base on “Export Fields” and “Export Controllers” settings, export file by manual. Users may define start and end date.

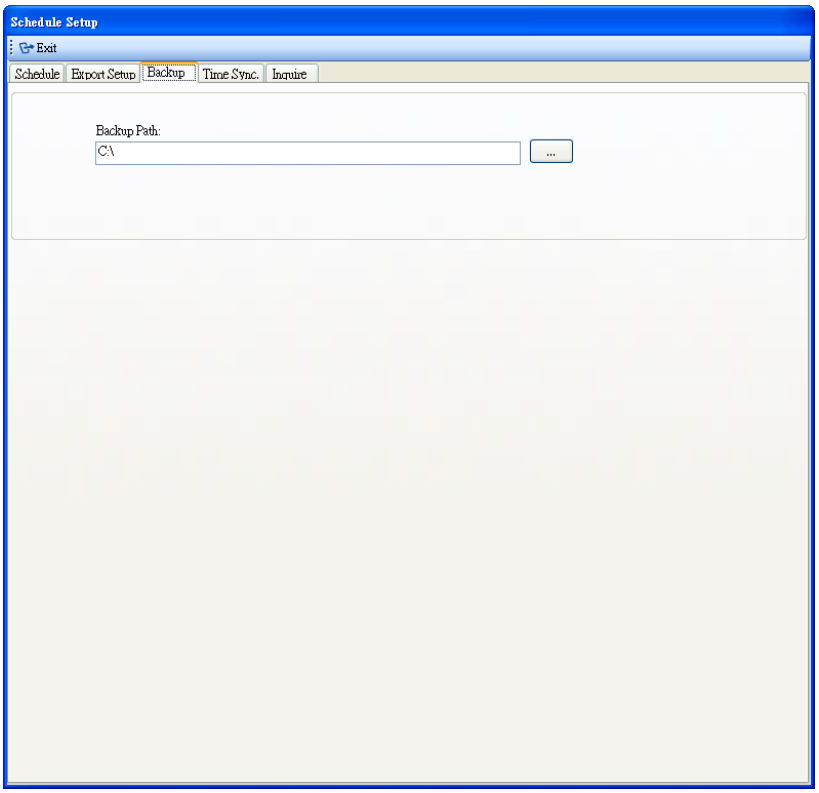


12. 【Export Swiped Card Records (First-Last)】: Base on export column, controller, and time range, system will export first and last swipe card record.



11-2-2 Backup

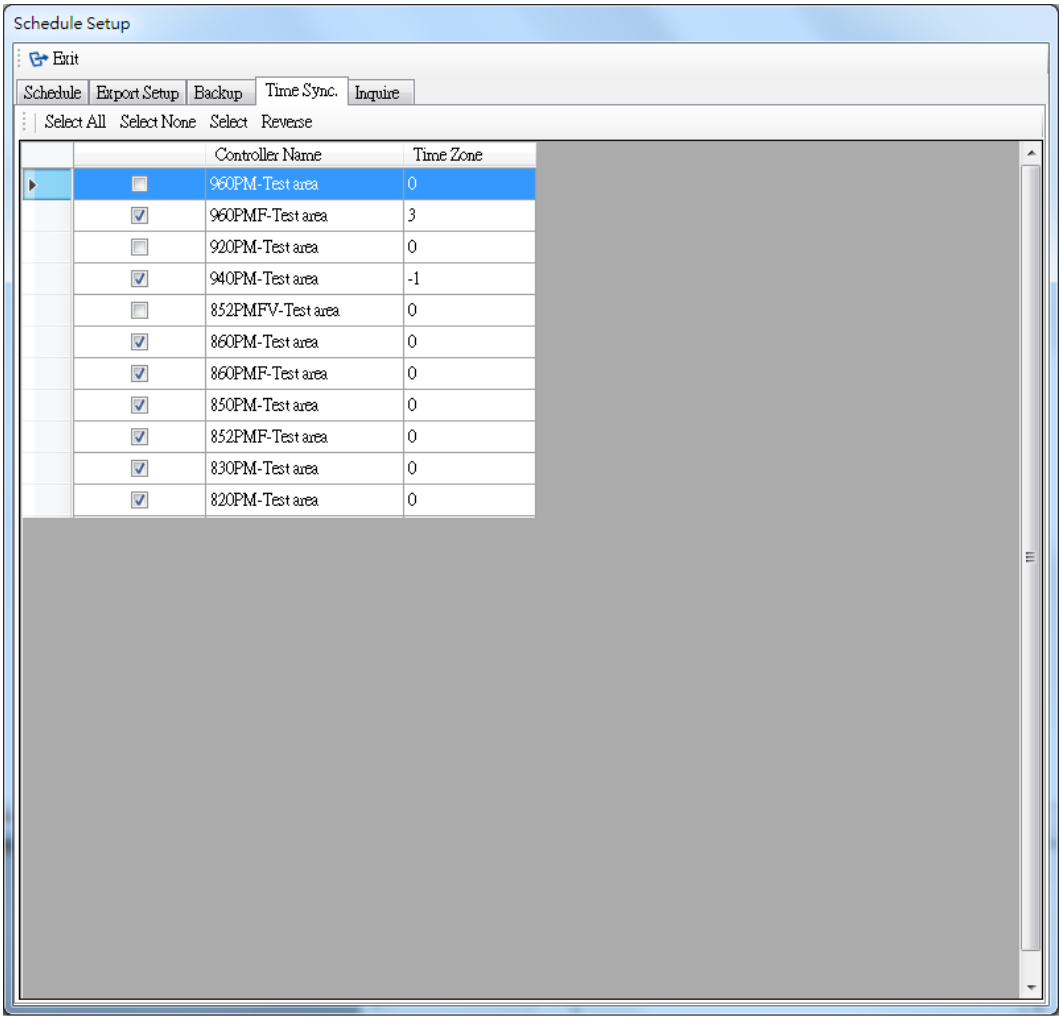
Click [...] and select saving path or input the path directly.



11-2-3 Time Sync

Operation Steps:

1. Select the controller which wants to correct the time.
2. If the time difference (time zone) exists, the field "Time Zone" can be entered how many hours that need to be added or subtracted.
3. The time difference will be added or subtracted individually while conducting the time synchronization.

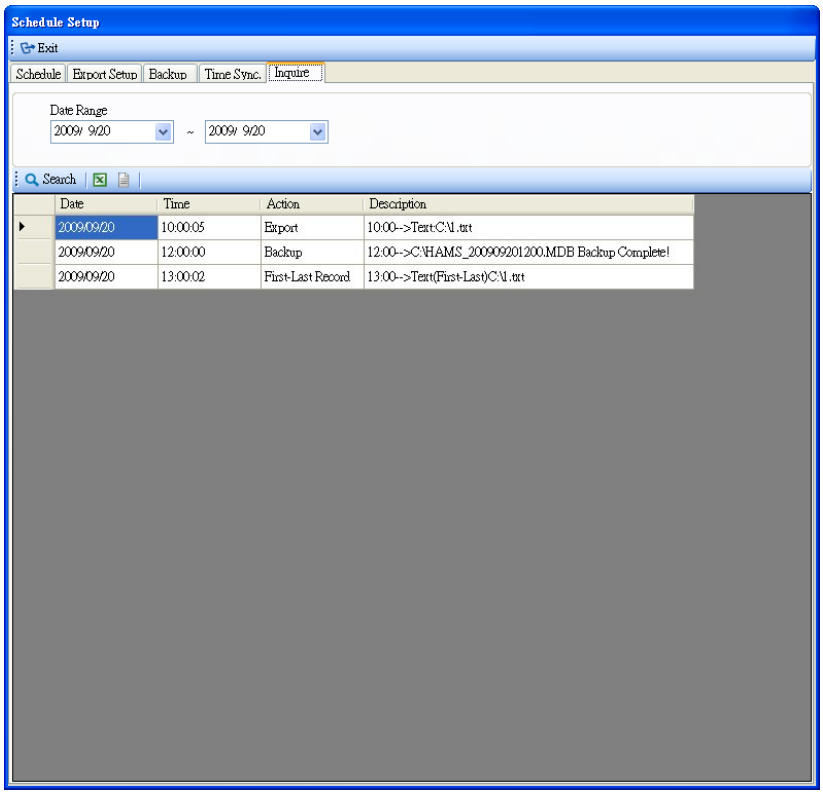


11-2-4 Inquire

Inquire previous schedule status.

Operation Steps:

1. Specify the range of date.
2. Click [Search].
3. Report can be converted to TXT or XLS format.

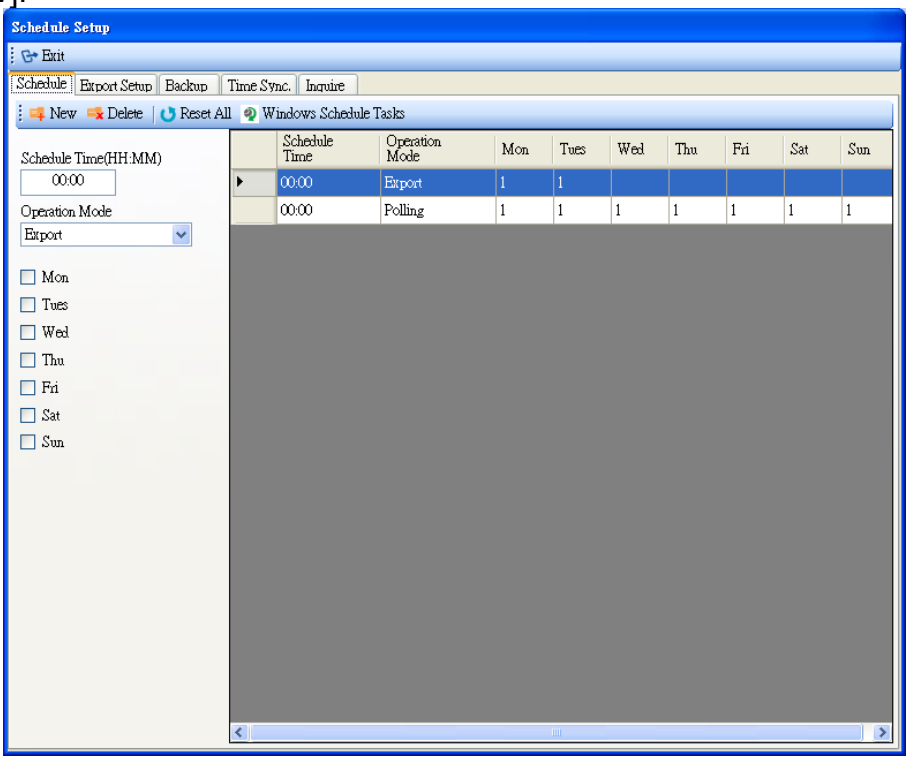


11-2-5 Schedule

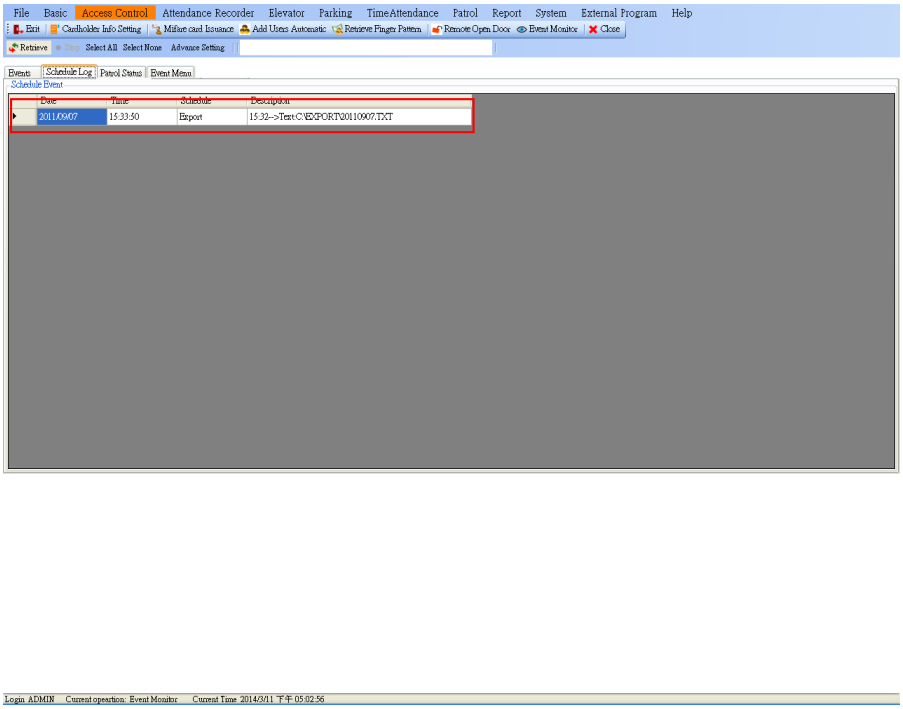
It is mainly to set polling, transfer records, synchronization and backup database in schedule.

Operation Steps:

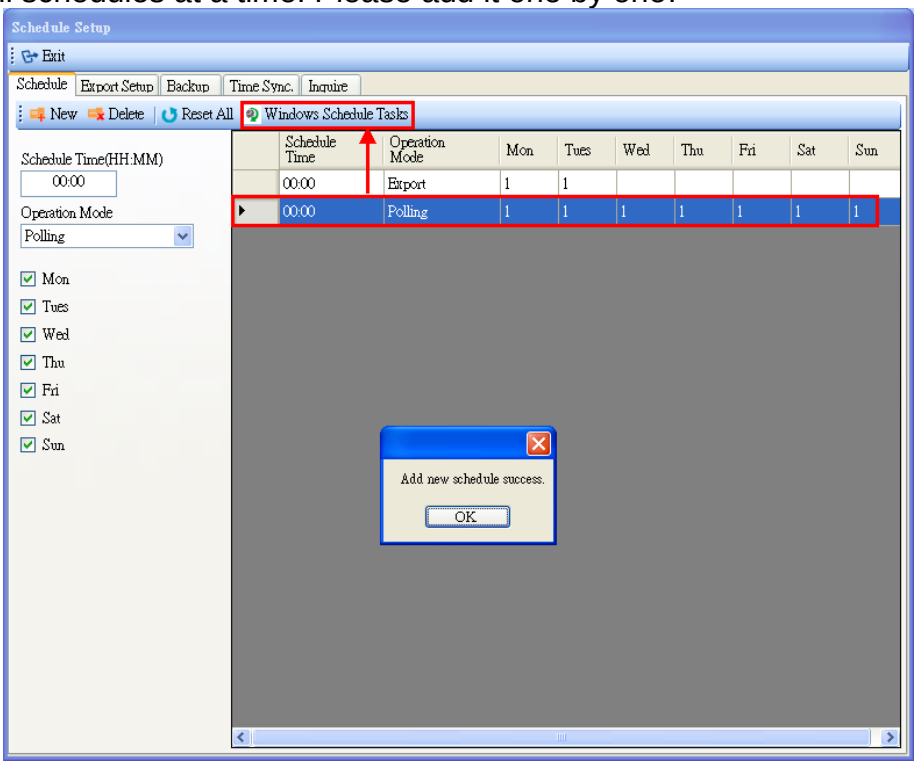
1. Input schedule time.
2. The system provides 5 operation modes: Export, Sync, Backup, First-Last Records and Polling.
3. The schedule time is set according Monday to Sunday.
4. Click [NEW].



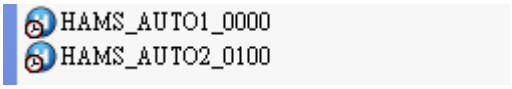
5. Please do not close event monitor when schedule setup runs.
6. Click [Reset All], schedule settings will be restored into non-running status. User need open event monitor again to take effect.



7. To adding schedule into Windows schedule task, please click [Windows Schedule Tasks]. It can't add all schedules at a time. Please add it one by one.



8. You can check window schedule tasks in Start→ Control panel→ System and Security→Administrative Tools→ Schedule tasks (Base on Windows 7 application)



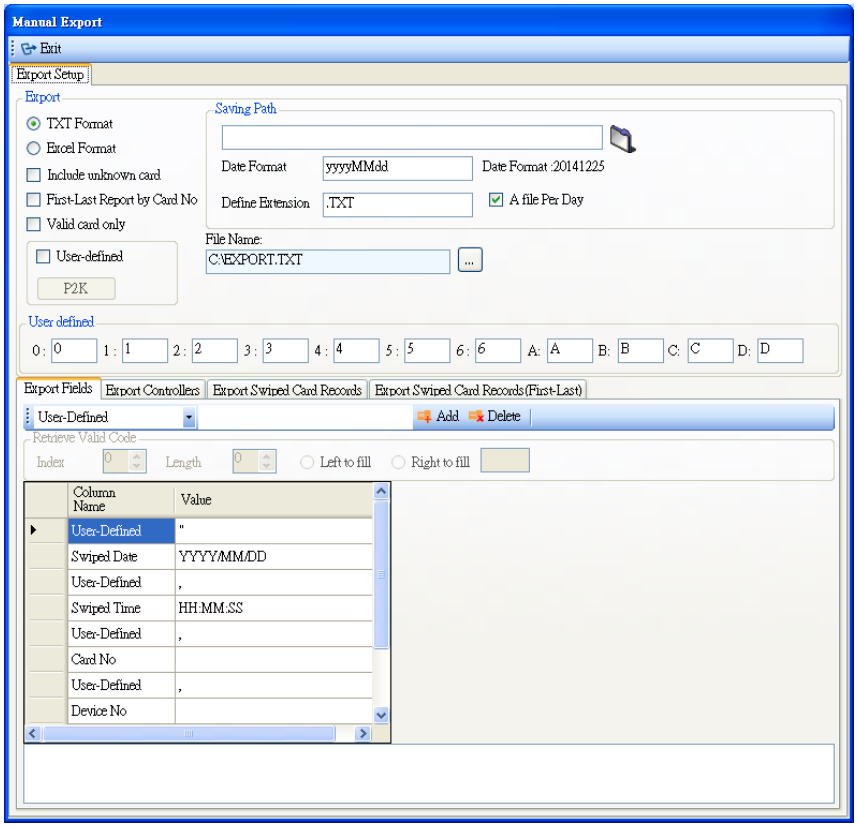
Schedule Classify

Classify NO.	Classify Name
AUTO1	Export
AUTO2	Sync
AUTO3	Backup
AUTO4	First-Last Record
AUTO5	Polling

9. Please remember to close HAMS and Windows schedule tasks will be activated as your settings.

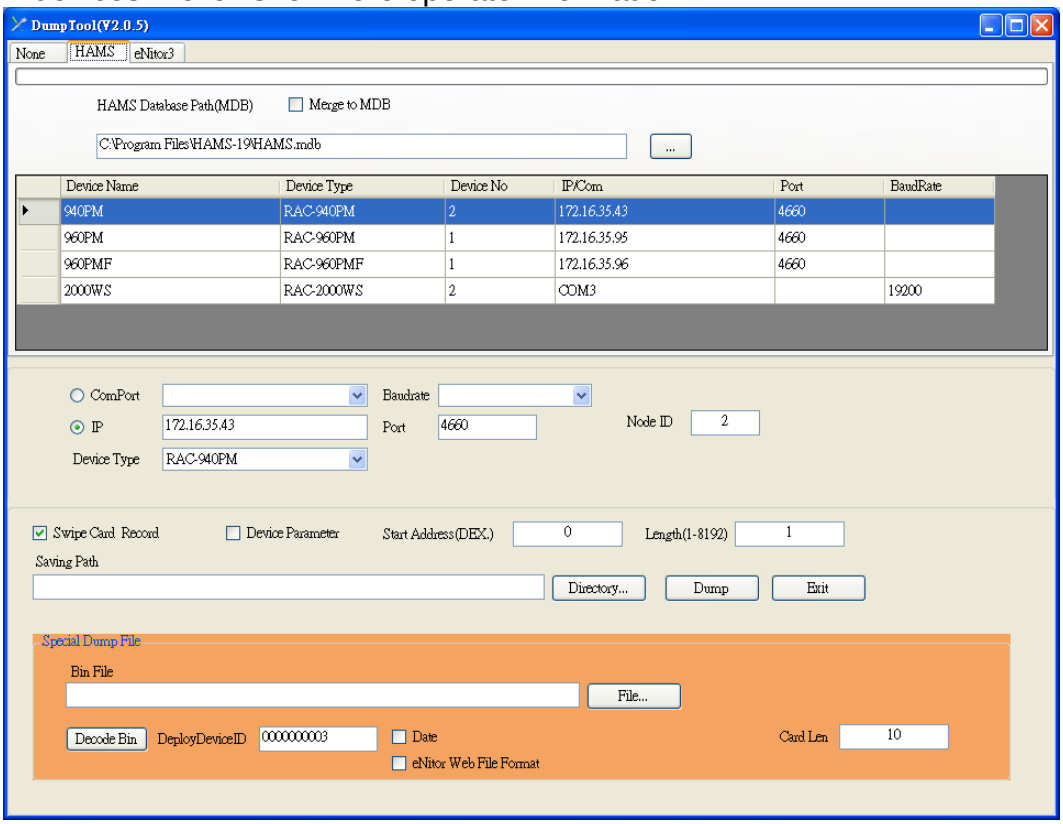
11-3 Manual Export

Operation steps are same with Chapter 11-2 Schedule. Operator may select to export records automatic or manual.



12. External Program

Dump Tool provides three types of dump data, three types as None/HAMS/eNtior3. Once Dump Tool connects with database, it will list all current devices and you may start to dump data from devices. Follows for more operate information.



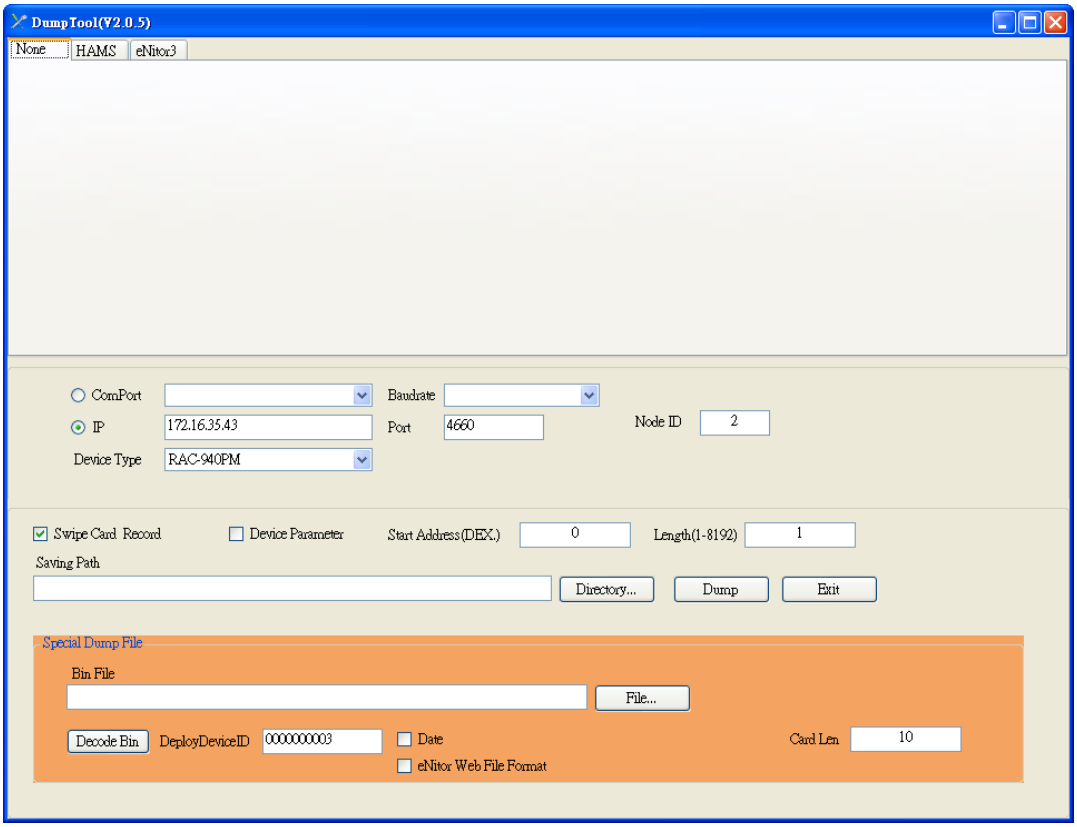
12-1 Dump Data -None

It is mainly to dump swipe card records from device directly.

Operator need input device information by manual.

Operation Steps:

1. Select communication information, like Com Port or IP and input compatible information.
2. Input Node ID and model name.
3. Tick check box of Swipe Card Record. Device Parameter is advanced function, kindly contact with engineers.
4. Click [Director] and select dump saving path.
5. Click [Dump] and starting to dump swipe card records.
6. Special Dump File: This function is reserved.



12-2 Dump Data -HAMS

It is mainly to dump swipe card records from device directly. Due to HAMS database is existence, operator need assign the HAMS database path and all devices information will display as below.

Operation Steps:

1. Click and point HAMS's database path. After connect with HAMS database, Dump tool will read all device information.
2. Select which device do you want to dumped.
3. Tick check box of Swipe Card Record. Device Parameter is advanced function, kindly contact with engineers.
4. Click [Director] and select dump saving path.
5. Click [Dump] and starting to dump swipe card records.

   More details and examples for each device are as below :

   - RAC-960/970 series card-swiping data :

     example: 20150914,142500,0,0102967568,14,1,0,1

     The fields of card-swiping data is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (by swiping card or pressing keypad)

     Date : Year-Month-Date (eg. 20150914)

     Time : Hour-Minute-Second (eg. 142500)

     Duty shift : Parameters setting of duty shift in device (eg. "0" means "BLANK")

0=BLANK	1=DUTY ON
2=DUTY_OFF	3=BREAK OUT
4=BREAK_IN	5=OT_START
6=OT_END	

     Card number : (eg. 0102967568)

     Event : Turns Hex. to decimal (eg. Converting the Hex. number "14" to be decimal number "20", it means "the card number is not found")

0 = Normally swiping card	21 = Incorrect time schedule for
1 = Master card	the card number
2 = Disarm code	30 = Unlock door by PIN
3 = Duress code	31 = Incorrect Operation
5 = Temporary card	61 = Card correct + PIN correct
6 = Blacklist	62 = Card correct but PIN incor-

8 = Fingerprint mismatch 9 = Fingerprint matching successful 10 = Guest card 11 = Guest Card (Unlimited number of times) 20 = Card number is not found	rect 63 = While Card + PIN code, the card number is pressed by key-pad 67 = Anti Error 75 = The setting of retrieved valid length is wrong 76 = Dual matching failed

In / Out：0=Reader Inside，1=Reader Outside (In the example above, it shows "1", meaning "Reader Outside)

0: Invariable number "0"

Input：0=Pressing card number by keypad，1=Swiping card(In the example above, it shows "1", meaning by swiping card)

- HTA-850/852 series card-swiping data :

example: 20150914,164647,3,1864935190,01,0,0,1

The fields of card-swiping record is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (way / interface)

Date : Year-Month-Date (eg. 20150914)

Time : Hour-Minute-Second (eg. 164647)

Duty shift : Parameters setting of duty shift in device (eg. "3" means "BREAK_IN")

0=DUTY ON	1=DUTY_OFF
2=BREAK OUT	3=BREAK_IN
4= OT_START	5= OT_END
6~7=RESERVED	

Card number : (eg. 1864935190)

Event : Turns Hex. to decimal (eg. Converting the Hex. number "01" to be decimal number "1", it means the card number does not exist")

0=Normally swiping card 1=Card number not exist 2=Card number length error 3=Card number checking error 4= Mifare card write error 5=Fingerprint checking error 6=Blacklist 7=Time schedule error	8= 9=Fingerprint matching suc-cessful 10=Master card 11=Master card checking er-ror 12= Add card by fingerprint 13=Delete card by fingerprint 14=

	15=

In / Out：0=Reader1(Reader Inside)，1= Reader2(Reader Outside)。(In the example above, it shows "0", meaning "Reader Inside)

0: Invariable number "0"

Input (way / interface) : (eg. "1" means input by T2 reader)

0=Input by keypad	1=Input by T2 Reader
2= Input by Wiegand Reader	3=Input by Mifare Reader
4=Input by Fingerprint	5~7=Reserved

- HTA-860/870/871, HTA-856 series card-swiping data :

  example : 20150908,115536,0,044859B2EF3980,01,0,0,1

  The fields of card-swiping data is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (way)

  Date : Year-Month-Date (eg. 20150908)

  Time : Hour-Minute-Second (eg. 115536)

  Duty shift : Parameters setting of duty shift in device (eg. "0" means " DUTY ON)

0=DUTY ON	1=DUTY_OFF
2=BREAK OUT	3=BREAK_IN
4= OT_START	5= OT_END
6~7=RESERVED	

  Card number : (eg. 044859B2EF3980)

  Event : Turns Hex. to decimal (eg. Converting the Hex. number "01" to be decimal number "1", it means the card number does not exist)

0=Normally swiping card	8=
1=card number not exist	9=Fingerprint matching suc-
2=Card number length error	cessful
3=Card number checking	10=Mater Card
error	11=
4=Mifare card write error	12=
5=Fingerprint checking error	13=
6=	14=
7=	15=

In / Out : 0 = Reader 1 (Reader Inside) , 1 = Reader 2 (Reader Outside) (eg. it shows "0" in the example meaning Reader Inside)

0：Invariable number "0"

Input(way / interface) : (eg. "1" means Input by Reader)

0=Input by Keypad	1=Input by T2 Reader
2~7=Reserved	

- RAC-940 series card-swiping data :

example : 20150904,170545,0,0005494367,14,0,0,1

The fields of card-swiping data is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (way)

Date : Year-Month-Date (eg. 20150904)

Time : Hour-Minute-Second (eg. 170545。)

Duty shift : Parameters setting of duty shift in device (eg. "0" means "BLANK")

0=BLANK	1=DUTY ON
2=DUTY_OFF	3=BREAK OUT
4=BREAK_IN	5=OT_START
6=OT_END	

Card number : (eg. 0005494367)

Event : Turns Hex. to decimal (eg. Converting the Hex. number "14" to be decimal number "20", it means the card number is not found")

0=Normally swiping card 1=Master card 2=Disarm code 3=Duress code 6=Blacklist 20=Card number is not found 21=Incorrect time schedule for the card number	30=Unlock door by PIN 31=Incorrect Operation 61=Card correct+PIN correct 62=Card correct but PIN in-correct 63=While Card + PIN code, the card number is pressed by keypad 67= Anti Error 75=The setting of retrieved valid length is wrong

In/Out : 0=Reader 1 (Reader Inside), 1 = Reader2 (Reader Outside). (In the

example above, it shows "0" meaning Reader Inside)

0: Invariable number "0"

Input : (eg."1" means Input card number by swiping card)

0=Input card number by pressing keypad)	1=Swiping card

- RAC-2000WS / WSN series card-swiping data

Example：20150918,145739,,1953987274,05,0,0,1

The fields of card-swiping data is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (way)

Date : Year-Month-Date (eg. 20150918)

Time : Hour-Minute-Second (eg. 145739)

Duty shift : Reserved (No number displays in the above example)

Card number : (eg. 1953987274)

Event : Hexadecimal (eg. Hex. number "05" means temporary card)

00H = Normally swiping card 01H = Master Card 02H = Disarm Code 03H = Duress Card 04H = Duress Code 05H = temporary card 06H = Blacklist 0AH = Guest card 0BH = Guest Card (un-limited number of times)	14H = the card number is not found 15H = Incorrect time schedule for the card number 16H = Fail to unlock door in two door interlocking 3DH = Card correct + PIN correct 3EH = Card correct but PIN incorrect 3FH = While Card + PIN code, the card number is pressed by keypad 43H = Anti Error 44H = While Card + PIN code, group error

In/Out：0=Reader1，1=Reader2，2=Reader3，3=Reader4。(eg. "0" means Reader1)

0：Invariable number "0"

Input : (eg. "1" means "swiping card")

0=Input card number by pressing keypad	1=Swiping card

- RAC-4600/4600N card-swiping data

  Example :20150518,111122,0,0000003760,05,0,0,0

  The fields of card-swiping data is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (way)

  Date : Year-Month-Date (eg. 20150518)

  Time : Hour-Minute-Second (eg. 111122)

  Duty shift : Reserved("0" in the above example means no function)

  Card number : (eg. 0000003760)

  Event : Hexadecimal (eg. Hex. number "05" means No authorization required, any card can unlock door)

00H = Normally swiping card 02H = Disarm card 03H = Duress card 05H = No authorization required, any card can unlock door 06H = Blacklist 14H = Card number is not found 15H = Incorrect time schedule	16H = Fail to unlock door in multi door interlocking 1DH = Incorrect holiday time schedule 3DH = Card correct + PIN correct 3EH = Card correct but PIN incorrect 3FH = While Card + PIN code, operation error 43H = Anti Error

  In / Out：0-7=Reader1-Reader8。(eg. "0" means Reader1。)

  0：Invariable number "0"

  Input：(eg. "1" means Input by swiping card)

0=Input card number by Key-pad	1=Input by Swiping card

- RAC-2400 series card-swiping data

  Example：20150711,165254,0,0000000198,18,0,0,0,1

  The fields of card-swiping data is going in sequence as : date, time, duty shift, card number, event, In / Out, 0 , Input (way), ID number

  Date : Year-Month-Date (eg. 20150711)

  Time : Hour-Minute-Second (eg. 165254)

  Duty shift : Reserved("0" in the above example means "no function")

  Card number : (eg. 0000000198)

  Event : Hexadecimal (eg. Hex. number "18" means without the function of using

"any card" to unlock door)

0x00	Stand for event, and the following is event code
0x01	Valid Card
0x02	PIN Error
0x03	While requiring PIN code, it has to swipe card, not allows to input card number by keypad
0x04	Authorization mismatch
0x05	Holiday authorization mismatch
0x06	Valid date expired
0x07	Card number is not found
0x08	Primary card and secondary card matching failed
0x09	Authorization of Two card rule matching failed
0x0A	Time attendance card
0x0B	Blacklist trigger alarm
0x0C	Deactivate alarm
0x0D	The first primary card or secondary card or Two Card (rule)
0x0E	Code-input error
0x0F	Swiping card + code not unlock door
0x10	Patrol card unlock door
0x11	Patrol card can't unlock door
0x12	Patrol card's authorization mismatch, not to unlock door
0x13	Swiping card + code to unlock door
0x15	Blacklist
0x16	Swiping card within conditional unlock time schedule
0x17	Anti error
0x18	Without the function of using "any card" to unlock door
0x1D	Exceed the maximum number of attempts, triggering alarm
0x1E	Deactivate alarm
0x1F	Unhandled data

In/Out：0=Reader1(Reader Inside)，1=Reader2(Reader Outside)。 (eg. "0" means Reader Inside。)

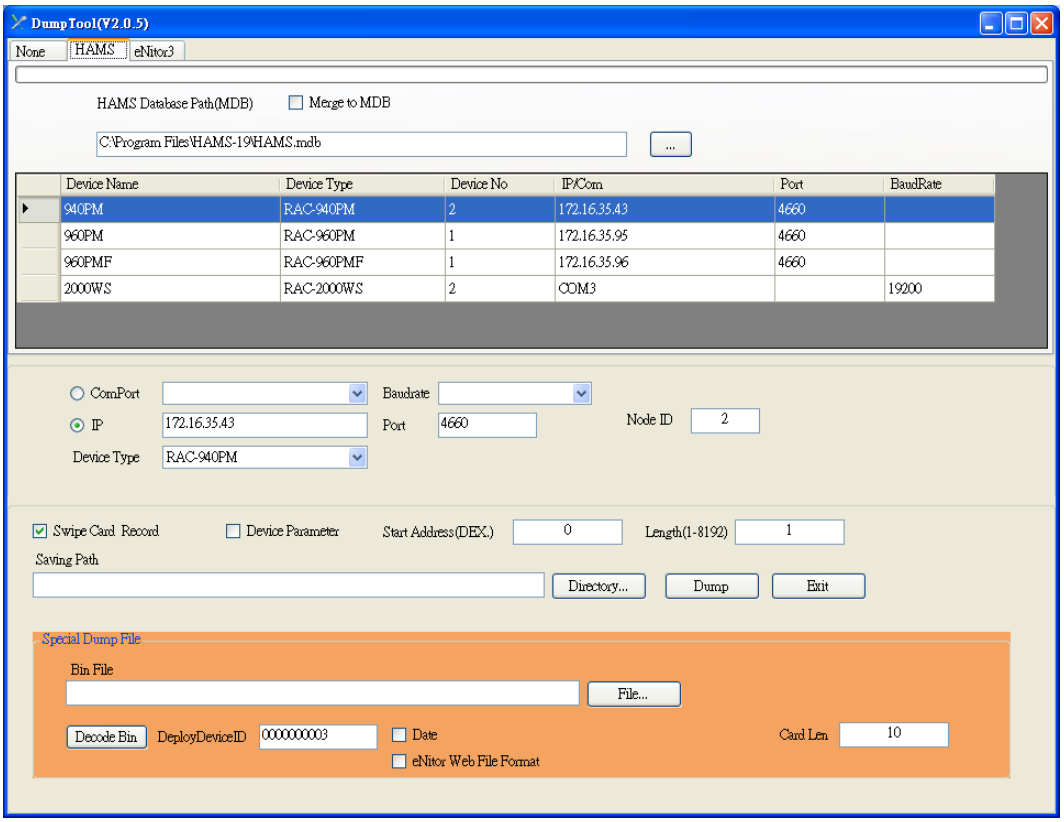
0：Invariable number "0"

Input：(eg. "0" means "Input card number by Keypad")

0=Input card number by Key-pad	1=Input by Swiping card

ID：Device ID number

6. Special Dump File: This function is reserved.

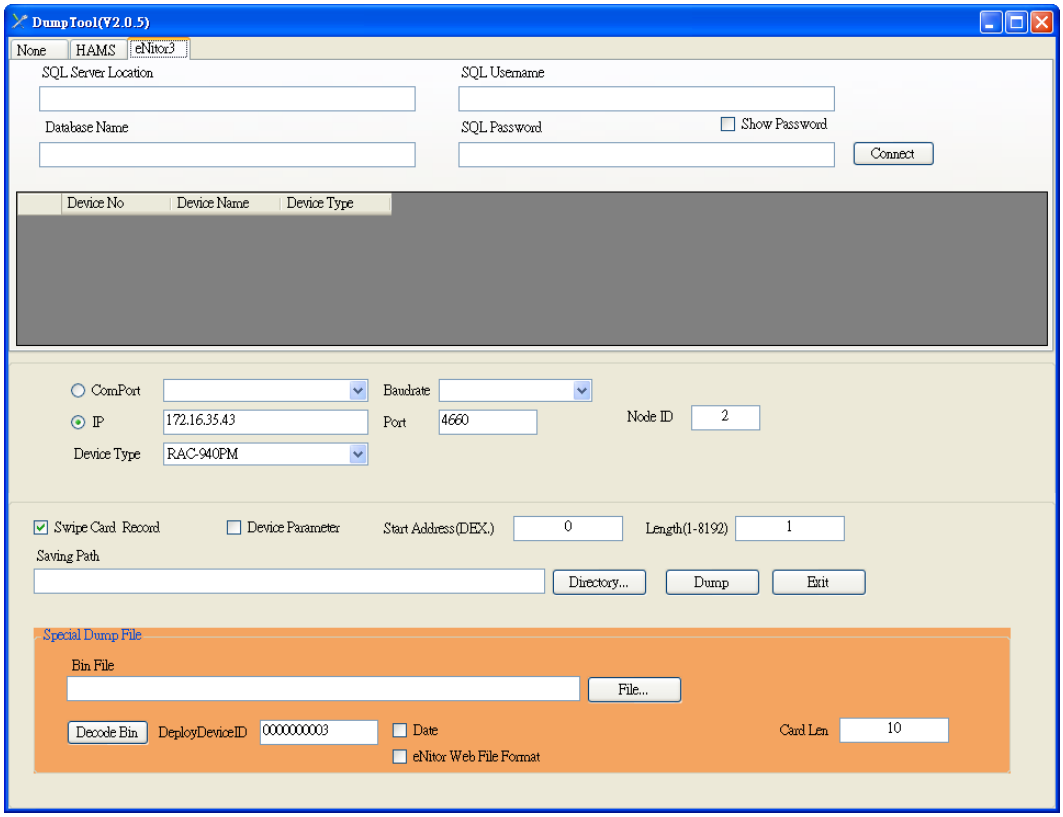


12-3 Dump Data -eNitor

It is mainly to dump swipe card records from device directly. Due to eNitor database is existence, operator need input SQL location, account and password and all devices information will display as below.

Operation Steps:

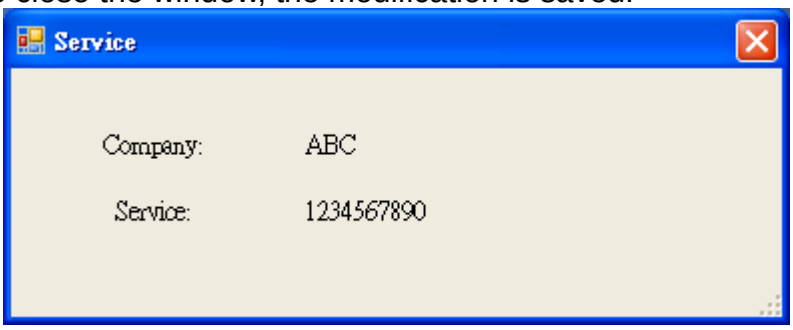
1. Input eNtior SQL server's information. After click [Connect], Dump tool will connect with eNtior database and list all device information.
   - SQL Server Location: SQL server's name or IP address.
   - Database Name: Please add AR_ in front of database name.
   - SQL Username: Database Name
   - SQL Password: Database Password
2. Select which device does you want to dump.
3. Tick check box of Swipe Card Record. Device Parameter is advanced function, kindly contact with engineers.
4. Click [Director] and select dump saving path.
5. Click [Dump] and starting to dump swipe card records.
6. Special Dump File: This function is reserved.

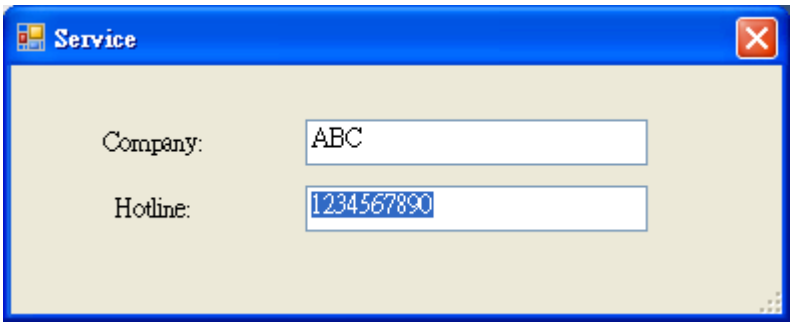


13. Help

13-1 Service

Point company name and service number, and double click on left-mouse key to modify the information. Once close the window, the modification is saved.





13-2 Version

Display current version

Chapter 6：Appendix

Appendix A: Error Code

Return Value	Description
1125	Operation timeout during multi-thread polling
1126	An error occurred while releasing multithreaded program
1001	An error is present in the sent parameter, or device returned an error in the packets. Kindly refer to Return Code table in the appendix section
1002	Socket or communication port read/write error. An error occurred during asynchronous read/write.
1003	Data length too short, device returned an invalid data length.
1103	Length of packet is less then the expected length
1004	Invalid control handler received. Invalid hComm value,
1005	Error in the packet no. returned.
1006	Error of 16-bit Cyclic Redundancy Check (CRC-16) returned.
1106	16-bit Cyclic Redundancy (CRC-16) Checksum Error.
1007	Terminal sent an invalid command to device or device does not support this function.
1008	An error occurred while performing read/write to slave device.
1009	Data length transmitted exceeded max. allowed length.
1010	No data was retrieved
4445	An error while reading device data or records
1025	Operation timed out during asynchronous read/write.
1026	Wait error during asynchronous read/write.
2225	Data was not retrieved during asynchronous read/write.

Appendix B: Trouble Shooter

After install HAMS but cannot log into HAMS.

1. Please check if you install HAMS by Administrator.
2. Click right key of mouse and select “ Run as Administrator”
3. Please copy the error screen and send to our technology staff.

HAMS does not communication with device.

1. Please check software setting, if device ID, COM/IP address, port/ baud rate are same with hardware.
2. Please check hardware wirings.
3. If you are using TCP/IP machine, deice ID must be 1 in the software.
4. If you are using TCP/IP communication, please ping the IP first.
5. Device and software should in the same network.

After upload the authorization, but still display time zone error.

1. Please check time zone and time schedule.
2. Please check if time zone and time schedule are uploading to device.
3. Please check if the user has authorization to access the door.
4. Please check device ID/name, maybe the user access wrong door.

Upload speed is very slow

1. Please check if network or communication port is existence.

User cannot find records in the swipe card report.

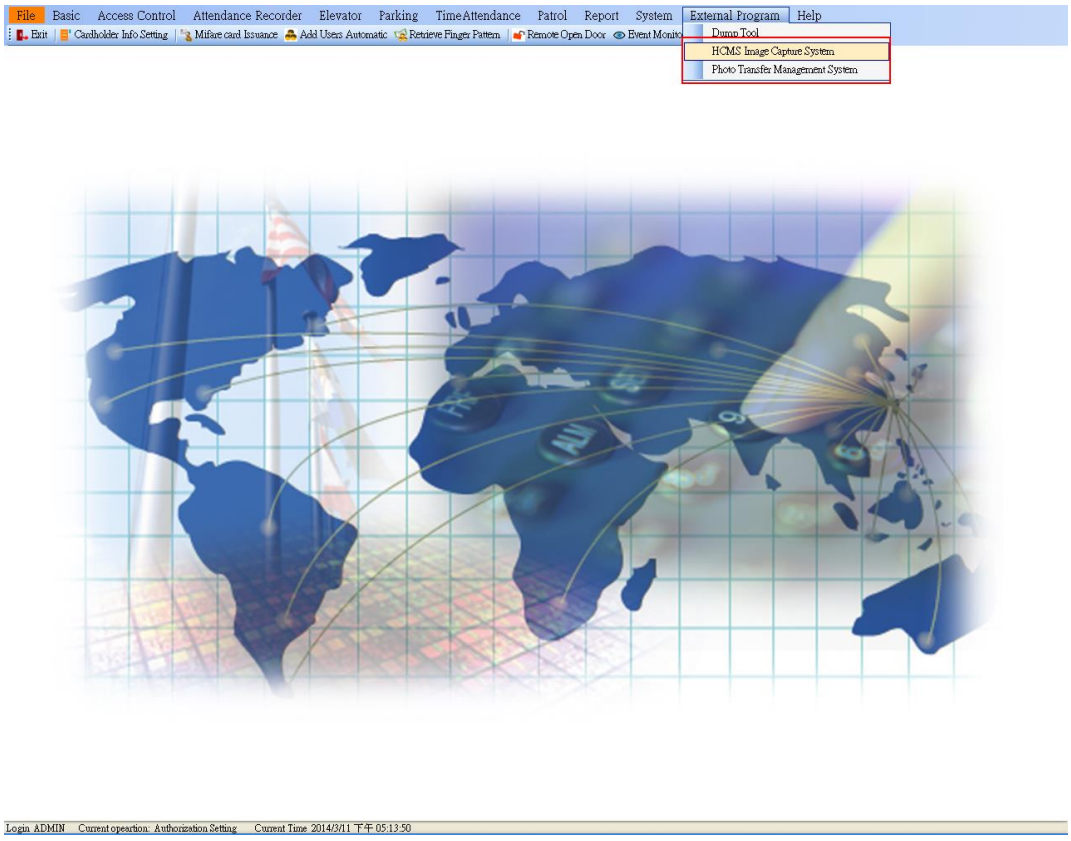
1. Query condition is not correct.
2. Please check HAMS folder, HAMS_2015.mdb, if you can read events in PubEvent.

Appendix C: External Program (HCMS/HAMS-FACE)

Please open the software and set compatible HAMS/HTMS/HIMS database path first. Once the software database path is set, when HAMS/HTMS/HIMS software is opened, you will read “External Program” in the main function bar.

(Kindly refer to HCMS manual for data-base setting information.)

(How to use the face recognition settings, please refer to the HAMS-FACE software manual)

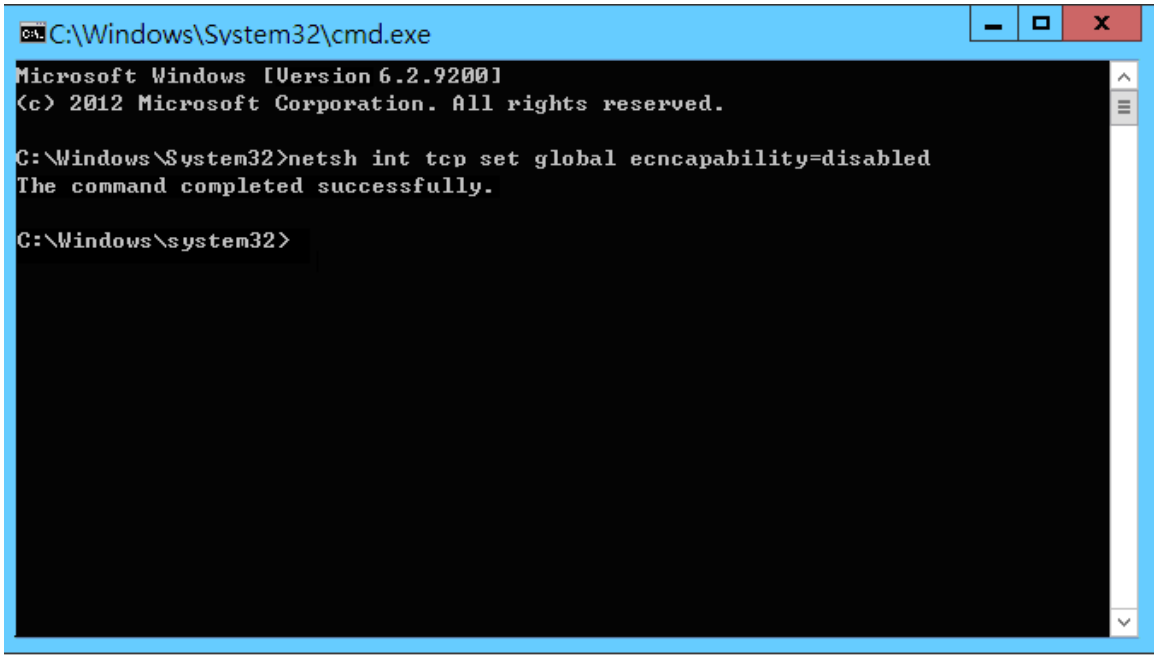


Appendix D: Troubleshooting when install Window Server 2012

When install HAMS in Window Server 2012, if you cannot read parameter or upload settings, please process follow steps.

1. Please go to Start-> execution and input C:\windows\system32\cmd.exe
   System will display Server windows 2012 version.
2. Input command : netsh int tcp set global ecncapability=disabled
3. Then go back to HAMS and set parameters and download authorizations to hardware again.

After that, system may work normal.



ONE YEAR LIMITED WARRANTY

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence or modification of any part of the product. This warranty does not cover damage due to improper operation or maintenance, connection to improper equipment, or attempted repair by anyone other than .

In no event shall manufacturer's liability exceed the price paid for the product from direct, indirect, special, incidental, or consequential, damages resulting from the use of the product, its accompanying software, or it's documentation. Hundure makes no warranty or representation expressed, implied, or statutory, with respect to its products, contents of use of this documentation and all accompanying software, and specially disclaims its quality, performance, merchantability or fitness for any particular purpose. Hundure reserves the right to revise or update its product, software or documentation without obligation to notify any individual or entity.

TECHNICAL SUPPORT

For technical questions regarding your product. Please email to our service and support team at

overseas@hundure.com