

# Guardian User Manual

Manual version: 1.05

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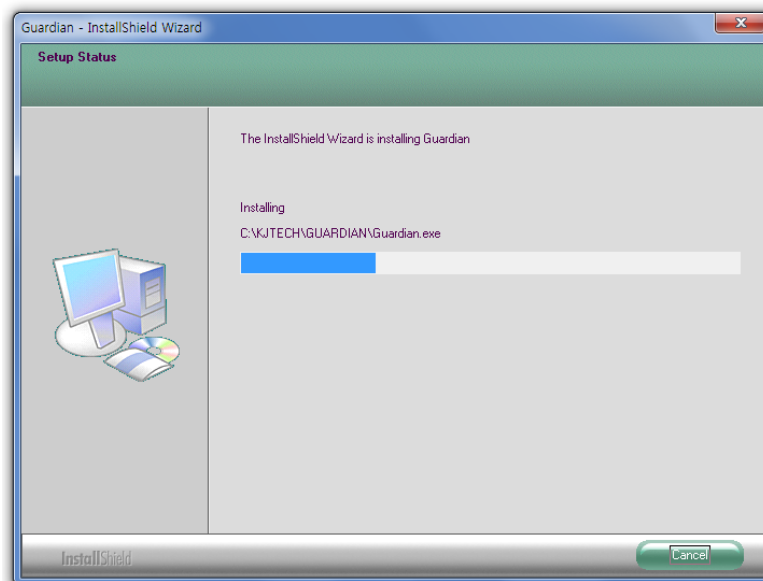
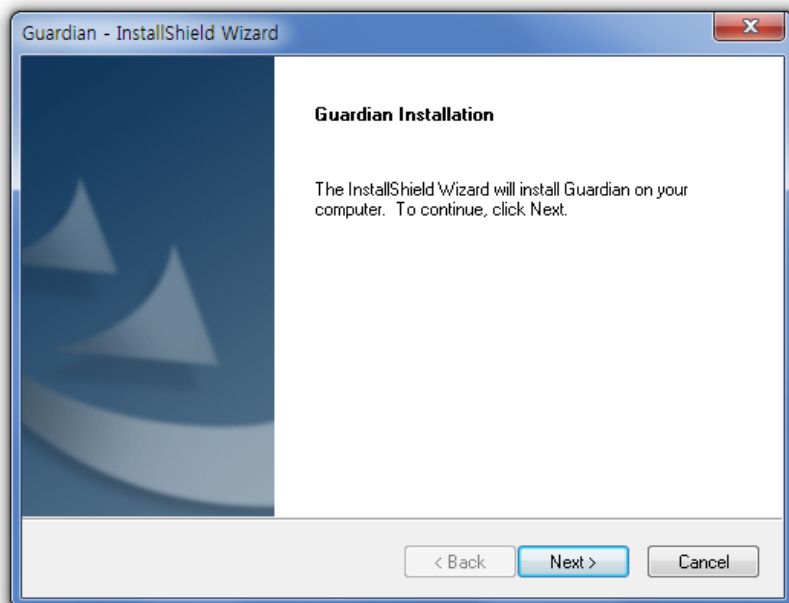
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## 1. Installation Environment

- ◆ Operating System: Window XP / Windows-7 (32bit or 64bit).
- ◆ VGA: More than (1024x768) resolution.
- ◆ HDD: We recommend more than 5G free disk space pc has.
- ◆ RAM: More than 256MB
- ◆ Microsoft office: For the report, we recommend Excel software installed in pc.

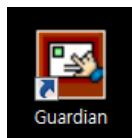
## 2. How to install.

- ◆ Setup File: "Guardian\_Setup\_Vxxx.exe". ("xxx": Version Number)
- ◆ Installation folder: Guardian will be installed "C:\Kjtech\Guardian" Folder automatically.
- ◆ Installation

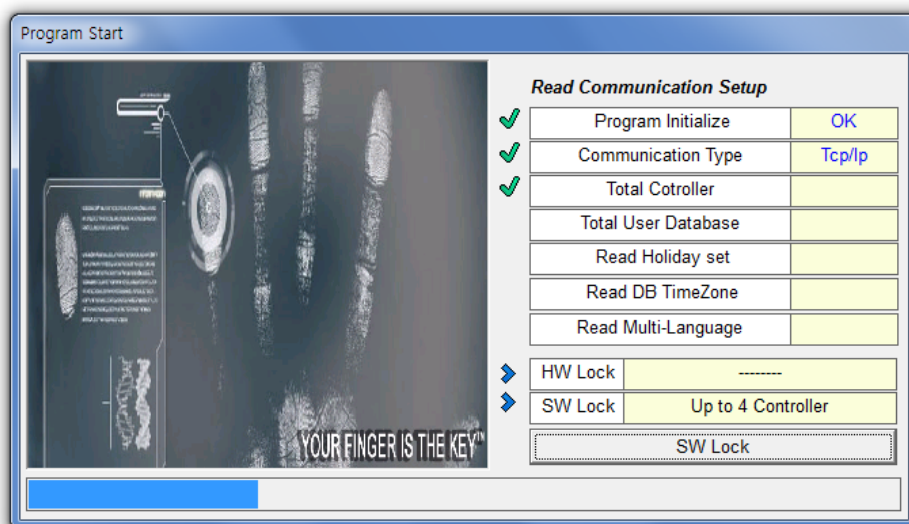


### 3. Program Start

- ◆ After Installation, you can see Guardian Icon as below in screen. Double click, Guardian will run.



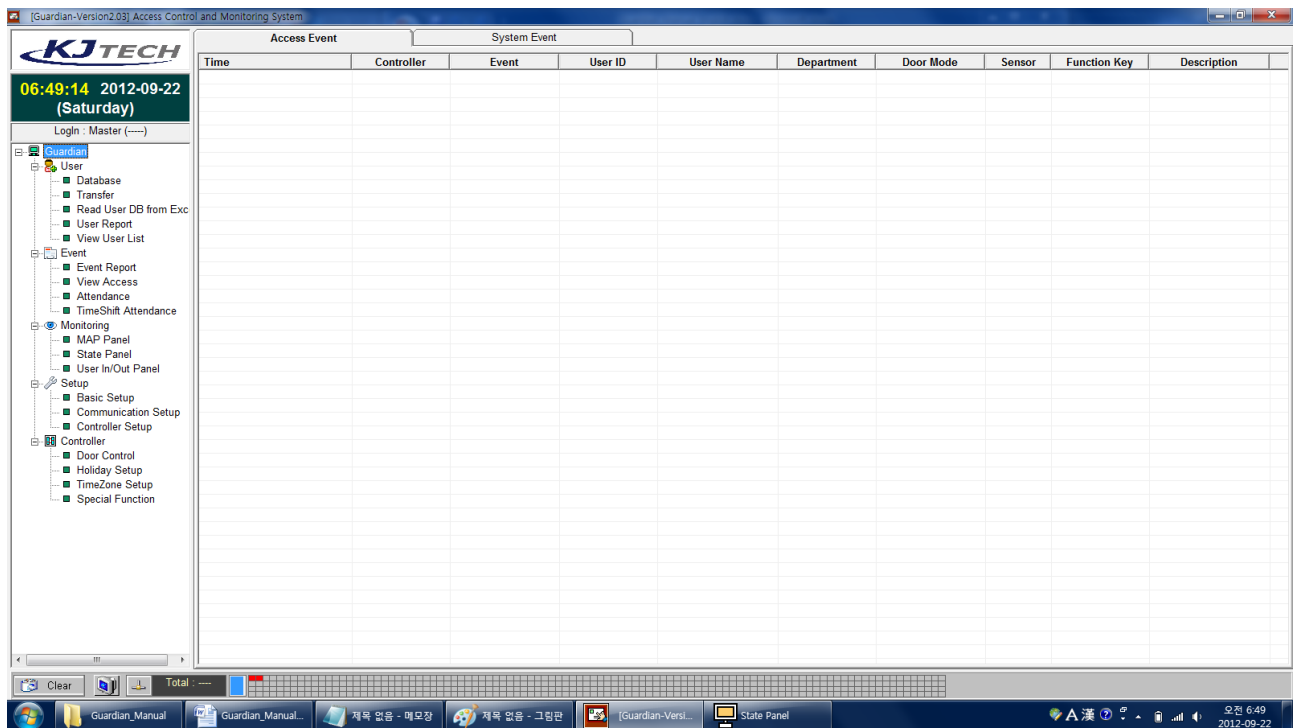
- ◆ First, initialize program and reads user information etc. from Database.



- ◆ Than, State Panel will be displayed for check the communication status

[illegible]

## 4. Main Screen



### ◆ Left

You can see time and date and menu list. For the menu, you can do double-click.

### ◆ Right

Access Event: Access event (granted and denied event) will be displayed.

System Event: You can see system event (example: Alarm/ Log in etc)

### ◆ Bottom

Clear button: You can clear all events which are displayed now.

Total xx: The total controller number

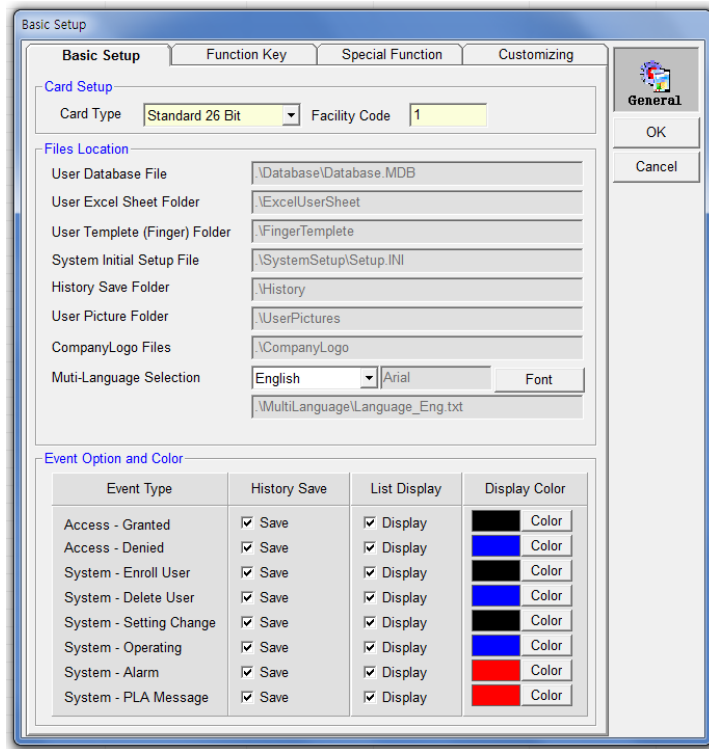
Rectangle: The communication status of controller

RED means Error and BLACK means Good Communication.

## 5. Setup

### 5.1 Basic Setup

Basic setup is divided into 4 categories: basic/function key/Special Customizing



#### ◆ Card Type

Select card type (Standard26/Keico37/Binary) and if needed, input default Facility Code.

#### ◆ File Position

File (setup, database, history file etc) will be saved in c:\kjtech\Guardian Folder

#### ◆ Multi language

You can select the language type (English/Korean/User own language). If you select "User", Please see the Multi-language text file and you can do modify string table as you want with your language. In this case, all the string in program will be display with your own language

#### ◆ Event Option and Color

You can configure whether to save and display these events. And the color in the event list box.

If you don't check "Save", this event does not saved in history table.

If you don't check "Display" this event does not displayed in the event list in main screen.

[F1 KEY]		[F2 KEY]	
F1 - 0 :	IN	F2 - 0 :	F2-0
F1 - 1 :	OUT	F2 - 1 :	F2-1
F1 - 2 :	F1-2	F2 - 2 :	F2-2
F1 - 3 :	F1-3	F2 - 3 :	F2-3
F1 - 4 :	F1-4	F2 - 4 :	F2-4
F1 - 5 :	F1-5	F2 - 5 :	F2-5
F1 - 6 :	F1-6	F2 - 6 :	F2-6
F1 - 7 :	F1-7	F2 - 7 :	F2-7
F1 - 8 :	F1-8	F2 - 8 :	F2-8
F1 - 9 :	F1-9	F2 - 9 :	F2-9

[F3 KEY]		[F4 KEY]	
F3 - 0 :	F3-0	F4 - 0 :	F4-0
F3 - 1 :	F3-1	F4 - 1 :	F4-1
F3 - 2 :	F3-2	F4 - 2 :	F4-2
F3 - 3 :	F3-3	F4 - 3 :	F4-3
F3 - 4 :	F3-4	F4 - 4 :	F4-4
F3 - 5 :	F3-5	F4 - 5 :	F4-5
F3 - 6 :	F3-6	F4 - 6 :	F4-6
F3 - 7 :	F3-7	F4 - 7 :	F4-7
F3 - 8 :	F3-8	F4 - 8 :	F4-8
F3 - 9 :	F3-9	F4 - 9 :	F4-9

#### ◆ Function Key Name

When user access with function key, this function key's name will be display in list box and save to history event. Normally, this is useful for time-attendance.

Basic Setup

Basic Setup   Function Key   **Special Function**   Customizing

Granted Popup Screen   ☐ Enable   [00:10 [M:S]]

Granted Access History Saved in HGrantedAccess.txt   ☐ Enable

PLA-SF Client Enable   ☐ Enable

Auto Delete of Retired User   ☐ Delete in Controller   ☐ Delete in DataBase

☐ Auto transfer user data to controller when edit or add from DataBase

☐ Auto delete user data in controller when deleted data from DataBase

Auto Detect of Enroll User   ☐ Auto save enroll user data on DataBase   ☐ Auto transfer enroll user data to controller

General

OK

Cancel

#### ◆ Granted Popup Screen

If this checkbox "on", when granted access, the popup dialog will be display during the second you want.

#### ◆ Granted Access history Saved in HGrantedAccess.txt

If this checkbox "on", when granted access, the event information will be saved in HGrantedAccess.txt file. This is for integration with another program. Your program scan this file and this file present, you can get real-time access information immediately and delete this file.

#### ◆ Client Enable

For the client program

## 5.2 Communication Setup

Communication Setup

Communication Type

☐ Serial Type ☒ TCP/IP Type

OK Cancel

Controller Name ID(1-900) IP Address Port Number(1004-9999) Password(0-9999) Add Delete

**Caution: ID and IP Address must be unique Number**  
Default Port is 5005 / Password is 0

No.	Controller Name	ID	IP Address	Port Number	Password
1	FrontDoor	1	192.168.1.100	5005	0
2	BackDoor	2	192.168.1.200	5005	0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

TCP/IP Select Controller

Serial Select Controller

### ◆ Communication type

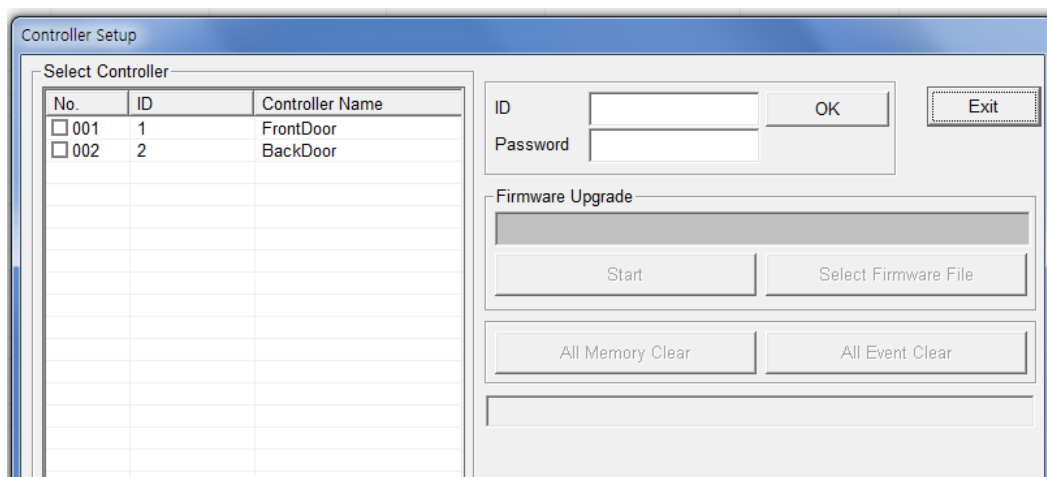
You can select the communication type, serial (Rs485) or Ethernet (TCP/IP).

### ◆ Controller

You can add (or delete) the controller you want to communication with.  
You can specify each controller name.  
Up to 400 controllers can be joined.



### 5.3 Controller Setup



◆ ID/Password

ID is "kjtech" and Password "kjtech" also.

◆ Select controller

You can select only one controller

◆ All Memory Clear

When you press this button, all the memory of controller will be deleted (Factory Initial status)

◆ All Event Clear

When you press this button, all the events (access/system) will be deleted.

## ◆ Firmware Upgrade

If you get special firmware from our company, you can upgrade your firmware of controller.

## 6. User

### 6.1 Database

The screenshot shows a 'Database' application window with the following sections:

- User Name:** First (Jon), Middle, Last (Telford).
- User Information:** User ID (00000001), User Class (User), Login ID (1), Password (1).
- Card Information:** Card ID (0000000101), Card Type (Standard 26 Bit), Facility Code (00100), Attribute (Normal).
- Access Time Option:** TimeZone 1 (All Time), TimeZone 2 (All Time), Access Mode (Normal User), ReAccess Limit Time (None).
- Official/Private:** Toggles for Official and Private access.
- Company ID:** None, with a Check button.
- Department:** None.
- Position:** None.
- Tel. Office:** None.
- Engaged:** 2007년 1월 1일 월요일.
- Promoted:** 2007년 1월 1일 월요일.
- Retired:** 2100년 1월 1일 금요일.
- License 1, License 2, License 3:** All set to None.
- E-mail:** None.
- Picture:** None, with a Search button.
- Buttons:** Add, Edit, Delete, OK, Cancel, and a scroll bar showing 1/3.
- Footer:** Get Finger Template (FPS-200).

#### ◆ Add / Edit/ Delete / OK/ Cancel / Scroll each Button

You can add or edit or delete user. This user data will be saved in Database.MDB.

Our users are sorted by user id number automatically.

#### ◆ User Name

You can input user name (multi-language). It's possible that you input first name only

#### ◆ User Information

User ID is unique number from 1 to 99999999

Each user must have each user id.

User Class (Normal/Master): When master is selected, this user will have master right in controller, so, he can go to menu of controller,

And he is master also in guardian program (the ID and Password)

#### ◆ Card Information

Select card type, and card id/ facility code etc.

Card id is unique number, so each user must have each card id.

#### ◆ Access Time Option

One user can has 2 Time-zone.

When Access Mode is "Any one (Id or card)", this user can make granted without finger regardless the door access mode.

#### ◆ Get Finger Template (FPS-200)

When FPS-200 (finger scanner) is connected in this pc, you can enroll this user's finger template directly.

◆ Official / Private

You can enroll each user's information as you want.

User ID	Company ID	Card ID	Name	Department
00000001	None	0000000101	Jon Telford	None
00000002	None	0000000102	Steve Wells	None
00000003	None	0000000103	Jeff Yoon	None

☐ User Name

☐ User ID

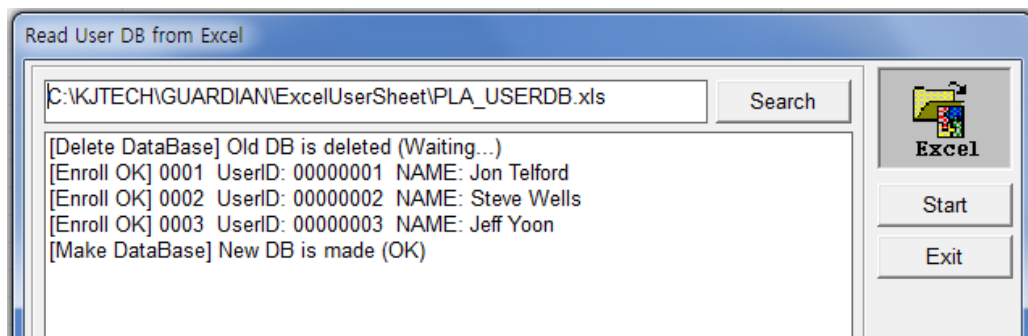
◆ Search User

You can Search specific user with user name or user id.

## 6.2 Transfer

- ◆ Enroll user: You can send each user data and information to each controller.
- ◆ Delete user: You can delete specified user in controller.
- ◆ Delete all user: You can delete all users in controller.
- ◆ Receive user: Receive fingerprint and card (you can select the check box) data through the controller and store it on database.
- ◆ Select all: you can select all controllers (users) with pressing this button.
- ◆ Filtering: For sending and receiving for the multiple users, you can specify the range of the user id and department or position.

### 6.3 Read User DB from Excel



- ◆ Database from Excel: If a large number of users who have to be registered, Guardian support batch registering user with excel sheet.
- ◆ Guardian has default excel sample ("C:\kjtech\Guardian\ExceluserSheet\PLA\_USERDB.xls")  
You can open this excel and add many user's information.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	<b>PLA-SF USER DATABASE</b>														
2	<b>Essential</b>				<b>Card</b>			<b>User Information</b>						<b>TimeZone</b>	
3	<b>User ID</b>	<b>First Name</b>	<b>Middle</b>	<b>Last</b>	<b>Type</b>	<b>Site</b>	<b>ID</b>	<b>Company-ID</b>	<b>Dept.</b>	<b>Position</b>	<b>Level</b>	<b>L-ID</b>	<b>L-Pass</b>	<b>Zone1</b>	<b>Zone2</b>
4	1	Jon		Telford		100	101								
5	2	Steve		Wells		100	102								
6	3	Jeff		Yoon		100	103								
7															
8															

- ◆ Search: you can select excel file
- ◆ Start: when you press start, all the database will be deleted first, and add user according to excel user sheet.

## 6.4 User Report

[illegible]

This is report of users who is registered in guardian database.

◆ Select user/ Select Department/ Select position

You can specify users who you want to reported.

◆ Save excel

You can make excel file of the list.

## 6.5 View User List

[illegible]

You can get user list from a controller. These users are enrolled in controller actually.

◆ View user list

First you select one controller and press this button. You can get users who are enrolled in controller.

◆ Save excel

You can make excel file of the list.

## 7. Controller

### 7.1 Door Control

The screenshot shows a software window titled "Door Control". It contains a form with four dropdown menus: "Controller" (selected: None), "Function" (selected: 2 - DoorMode), "Value" (selected: [FINGER]), and "Message" (empty). To the right of the dropdowns is an "Exit" button. Below the dropdowns are "Get" and "Set" buttons.

Many of each controller's operation parameter can be set and modified.

◆ Door control

Maximum of 27 operation modes can be configured.

First you select the controller, and select the function you want, before press "Get", you have to input the value

◆ Description of each operation mode (Function)

Door Relay: Door relay status (Open/Close)

Door Mode: Access mode

Door Time: Lock open time (when granted, the during of door relay open)

Door Alarm: Door open bell

CD type: Wiegand output type

Re-access: Certification security

Cd2Fun: external reader function key

AlmRelayFun: external alarm functionkey (Relay)

AlmBuzzFun: external alarm function key (Buzzer)

AntiPass: AntiPass

Fire: fire surveillance/intrusion surveillance

IdSecret: ID security

Limit: entry restriction for specific time

Language: language

VoiceOut: select whether voice function to be used.

MachineID: controller address

Baudrate: Communication speed.

DeviceTime: Controller time

UserCount: Number of currently registered user Ids(including TEMP ID)

ManagerCount : Number of currently registered manager IDs

FpCount: No.of currently registered fingerprints

CardCount: No.of currently registered cards

SLogTotal: No.of currently recorded management logs

SLogRead: Current management record read position

GLogTotal: No.of currently recorded entrance records

GLogRead: Current entrance record read position

CurDoorMode: Current door mode

## 7.2 Holiday Setup

Holiday Setup

Holiday Name: Christmas

Holiday Date: 2012년 12월 25일 화요일

Holiday List:

- ☒ [Date/Month] 01-01 [Name] : New Year
- ☒ [Date/Month] 25-12 [Name] : Christmas

Buttons: Add, Delete, Send, OK, Cancel

◆ Holiday input is used for the time-attendance and time-zone. After entering all holidays by repeatedly clicking “Add”, click the “Send” button to send this information to the controller for the time-zone access.

## 7.3 Time Zone Setup

TimeZone Setup

TimeZone No.: 01

TimeZone Name: AccessEnable TimePeriod - 1

Weekday Time

Weekday	Start Time	End Time
Holiday	오전 12:00:00	오후 11:59:59
Sunday	오전 12:00:00	오후 11:59:59
Monday	오전 12:00:00	오후 11:59:59
Tuesday	오전 12:00:00	오후 11:59:59
Wednesday	오전 12:00:00	오후 11:59:59
Thursday	오전 12:00:00	오후 11:59:59
Friday	오전 12:00:00	오후 11:59:59
Saturday	오전 12:00:00	오후 11:59:59

Controller: 1(FrontDoor)

Buttons: Add, Edit, Delete, Update, Cancel, Send, View TimeZone, TimeZone Delete

Time-zone is used for the each user's access permitted time depend on weekday 24 hours.

- ◆ You can make time-zone number with name up to 254 type.
- ◆ The entrance time zone is entered by dividing 24 hours of a day according to the 'start time' and 'end time' for each weekday and is used to allow or restrict the user's entry during a specific time
- ◆ Set number and name of entry time and each day's start/end , select a controller then click 'Update' to send.
- ◆ You can view and delete the time-zone setting from each controller with “View Time-Zone” and “Time-Zone” Delete Button.



## 7.4 Special Function

Special Function

DayLight Door Mode Bell Time Auto Door Auto F-Key NoAct F-Key

Start of time 2000년 1월 1일 토요일 오전 12:00:00

Changed Time 2000년 1월 1일 토요일 오전 12:00:00

End of time 2000년 1월 1일 토요일 오전 12:00:00

Changed Time 2000년 1월 1일 토요일 오전 12:00:00

Save

Select Controller

No.	ID	Controller Name
<input type="checkbox"/> 001	1	FrontDoor
<input type="checkbox"/> 002	2	BackDoor

Select All 0 / 2

Send

DayLight

◆ Day light: Day light is summer time and controller time has to be changed automatically as you set. After setting you can select controller and press “Send”.

Special Function

DayLight Door Mode Bell Time Auto Door Auto F-Key NoAct F-Key

Day Type	Start Time	End Time	Door Mode
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]
All Day	23 59	23 59	[Any]

Save

◆ Door Mode: This function is for the change controller’s door mode automatically according to time.

Special Function

DayLight Door Mode Bell Time Auto Door Auto F-Key NoAct F-Key

Day Type	Start Time	Time (Sec)	Day Type	Start Time	Time (Sec)
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254
All Day	23 59	254	All Day	23 59	254

Save

◆ Bell Time: to control a bell connected to a relay so that the bell rings for a preset time

Special Function

DayLight Door Mode Bell Time **Auto Door** Auto F-Key NoAct F-Key

Day Type	Start Time	End Time
All Day	23:59	23:59
All Day	23:59	23:59
All Day	23:59	23:59
All Day	23:59	23:59
All Day	23:59	23:59
All Day	23:59	23:59

Save

◆ Auto Door: Set the operation time interval of the automatic door's sensor if the automatic door is operated through a sensor. A maximum of 6 intervals can be set according to the following procedure.

Special Function

DayLight Door Mode Bell Time Auto Door **Auto F-Key** NoAct F-Key

Day Type	Start Time	End Time	Function Key
All Day	23:59	23:59	F4-9
All Day	23:59	23:59	F4-9
All Day	23:59	23:59	F4-9
All Day	23:59	23:59	F4-9
All Day	23:59	23:59	F4-9

Save

◆ Auto F-Key: To store a function key value automatically through an event even if a separate function key is not pressed within a set time. Mainly used during commuting time (for attendance management) to avoid the burden of authentication through pressing a function key. A maximum of 5 items can be set according to the following procedure

Special Function

DayLight Door Mode Bell Time Auto Door Auto F-Key **NoAct F-Key**

1st F-Key	None
2nd F-Key	None
3rd F-Key	None
4th F-Key	None

Save

◆ No Act F-Key: for not activating the door operation relay if entrance authentication occurs using the function key set at the relevant window. This can be mainly used if door should not be opened while checking attendance.

## 8. Report

## 8.1 Event Report

[illegible]

◆ Event report: Searches events of controller that occurred during communication and saved to history. Searching is possible by each event user/controller/department/function key. Event list can be saved as a excel file.

## 8.2 View Access

[illegible]

◆ **View Access:** Unlike the 'Event Output' function which loads data from the DB, this function loads the events of users granted access by the controller. Granted access list can be saved as a excel file.

◆ Check and Insert: Compare all granted event to history database. And if this event is not saved in history, this event will be saved history automatically.

### 8.3 Attendance

[illegible]

◆ Time-attendance

For attendance, you can search for all users or by department or position and also by date and controller. And you can set through preset function keys (F1-0 – F4-9). You can set typical in time and Typical out time for checking “late in” and “early out”.

Example, if someone arrived earlier than “typical in time” this is good displayed. The other means bad. Attendance result list can be saved excel file.

## 8.4 Time-shift attendance

### ◆ Main Screen of time-shift attendance

This is for group working schedule, overnight work schedule, over-time calculate

	TimeShift Name	Work Schedule
Time Shift - 1	TS-1	3
Time Shift - 2	TS-2	3
Time Shift - 3	TS-3	3
Time Shift - 4	TS-4	3
Time Shift - 5	TS-5	3
Time Shift - 6	TS-6	3
Time Shift - 7	TS-7	3
Time Shift - 8	TS-8	3
Time Shift - 9	TS-9	3
Time Shift - 10	TS-10	3

### ◆ Basic Setup

You can set the total time-shift work number and time-shift name.  
The maximum time-shift number is 10.  
And you have to set the work schedule number of each time-shift.  
Time maximum work schedule number is 10.

#### ◆ Time-shift

You can see the total time-shift name horizontal property sheet.  
 If you select time-shift, each work schedule will be displayed vertical property sheet.  
 So, you can set each work schedule of each time-shift.  
 First, you have to select date type, and define "In" and "Out" time etc.  
 When finished, you can see the timing sheet also.  
 The "25" hour means "next day 1:00Am"

User ID	User Name	Department	Position	Time Shift
<input type="checkbox"/> 00000001	Jon Telford	None	None	TS-1
<input type="checkbox"/> 00000002	Steve Wells	None	None	TS-1
<input type="checkbox"/> 00000003	Jeff Yoon	None	None	TS-1
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

Change User TimeShift: ---

#### ◆ User Setup

You can setup each user's time-shift.  
 First select 1 or multi user, and select the time-shift name (below) which you want to be changed for the selected user. Next press "Change User Time-Shift" button

## 9. Monitoring

### 9.1 MAP Panel



#### ◆ Map Panel - Main Screen

The entry/ Exit status of users can be checked through the overall organization map. The map file (image file) has to be saved in the “Map-Screen” folder within the program folder.



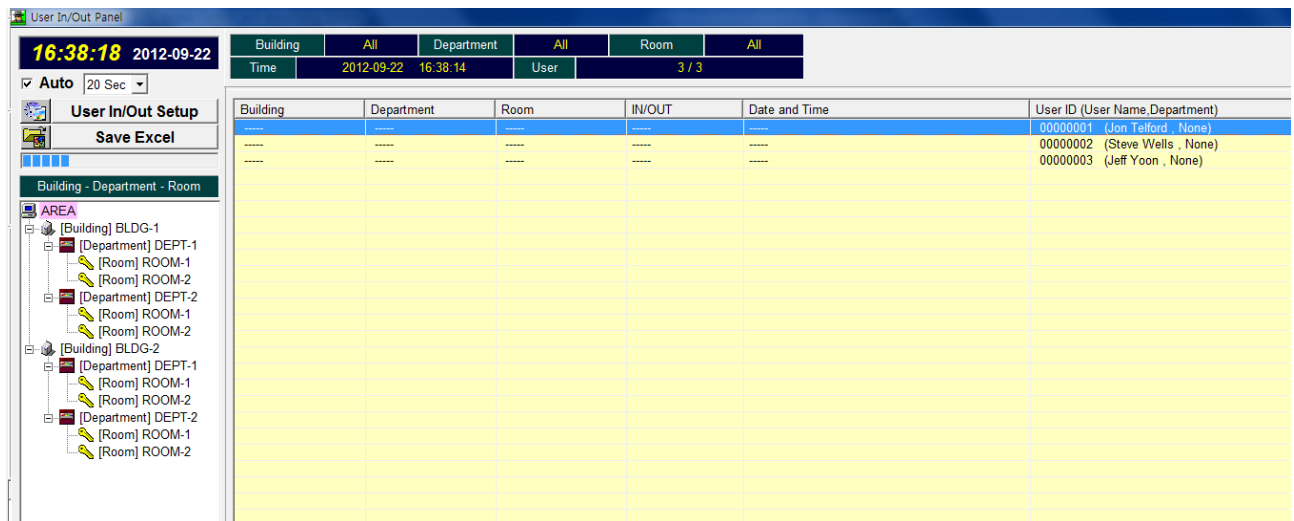
Right click the entrance door set and search operation mode, events etc as below





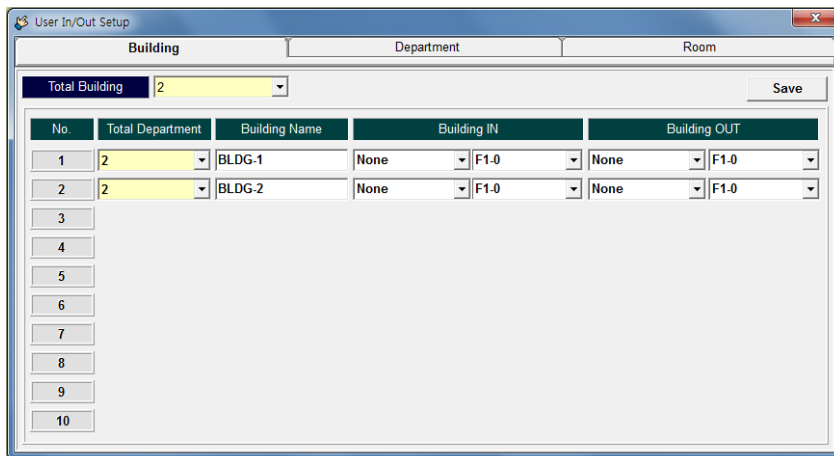


## 9.3 User In/Out Panel



### ◆ User In/Out panel:

This is for the monitoring who is in building (or Department or Room).  
 Example) when fired, fireman wants to know, how many people are there and where?  
 If you click an items (tree view-left side),  
 Guardian will display the person who is in building (department or room)  
 The scanning will be done during some period automatically.



### ◆ User In/Out Setup

Guardian uses 3 layers concept. It's Building-Department-Room  
 Guardian can have up to 10 Buildings, and each building can have up to 10 departments, and  
 Each department can have up to 10 buildings.  
 For the In/Out monitoring, you have to use each controller for "in" and "out" separately.  
 You have to define the "In" or "Out" for each building and each department and each room separately  
 (controller and function key.)