VERTECH

VERTECH Central Station Software User Manual

User's Manual

July 2006

VERTECH

Table of Contents

1.0 Introduction 4
2.0 Accessing the System 4
3.0 Badge Design 5
4.0 Card Holder 10
4.1 Holiday Management 10
4.2 Schedule Management 12
4.3 Card Access Level 12
4.4 Time & Attendance 13
4.5 Card Holder Information 14
5.0 Guard Tour Monitor 17
6.0 Interactive Floor Plan 18
7.0 Real Time Events 21
8.0 Status or Operation 23
9.0 System Settings 24
9.1 System Access Level 24
9.2 Operator 25
9.3 Card Format 27
9.4 Events Setting 28
9.5 Guard Tour Path 29
9.6 System Setting 30
10. Transaction 33
11. Vertx Configuration 34
11.1 Gateway 34
11.2 Controller Configuration 35
11.3 Elevator Management 39
11.4 Create IO Linker Rules 40

1.0 Introduction

This document details the user's manual for the Vertx Access Control System. It details a guide on the basic outlook of the system, general usage of the system and the capabilities of the system.

2.0 Accessing the System

Once the system is successfully installed and to access the system, go to the installation directory and select (double click) on the 

icon.

Nb: For installation procedures, please refer to the Installation Manual.

Figure 1: Vertx Access Control System log-in page

- You will be prompted with the login page as per Figure 1.
- To login to the system, please insert the correct user id and password.
- Upon successful login, you will be directed to the main page of the Vertx Access Control System as shown in Figure 2.

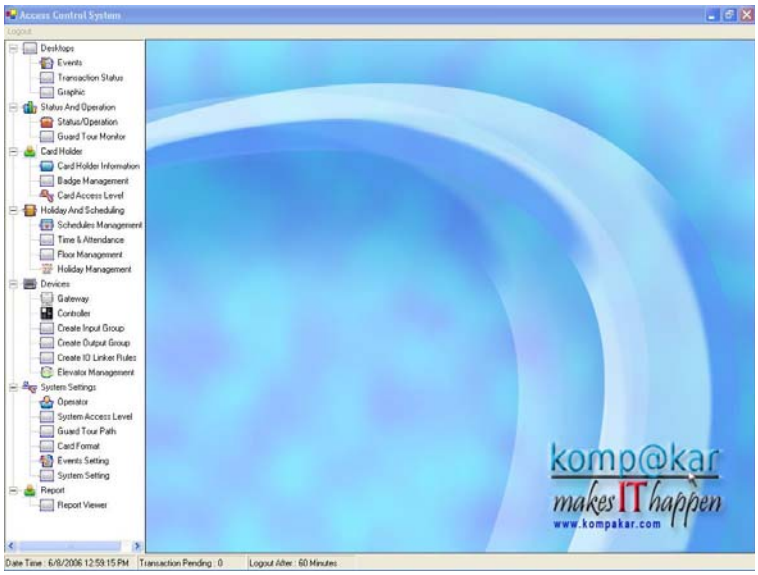

Figure 2: Vertx Access Control System main page

- The list at the left column of the page displays all the accessible (by permission) functions.
- To use a particular function, select and click on the function.
- To logout of the system, select “Logout” from the main menu.
- The status bar locates at the bottom of the page shows the date and time, the total transaction pending and the minute leave to auto logout.
- The administrator can disable the auto logout feature, if required.

3.0 Badge Design

The system is designed to allow users to design up to 4 types of templates for card printing purpose. The features provided are:

- Adding static pictures
- Adding static text
- Adding dynamic text (change according to card holder information),
- Adding background
- Adding cardholder picture (dynamic – change according to card holder picture).

5 types of components can be added into the badge design:

- User picture - Displays the picture of the card holder
  The position, size and border of the component are changeable

- Picture - Displays the picture chosen by the designer, eg: company logo
  The position, size, border and source of picture are changeable
- Static Text - Displays the static info on the card, eg: company name
  The position, size, border, font type, font size and font colour are changeable
- Dynamic Text - Used to display the text dynamically based on the card holders information, eg: card holder name
  The position, size, border, font type, font size, font colour and linked information are changeable
- Background Image - Display the background on the card, eg: company logo
  The source of the image is changeable

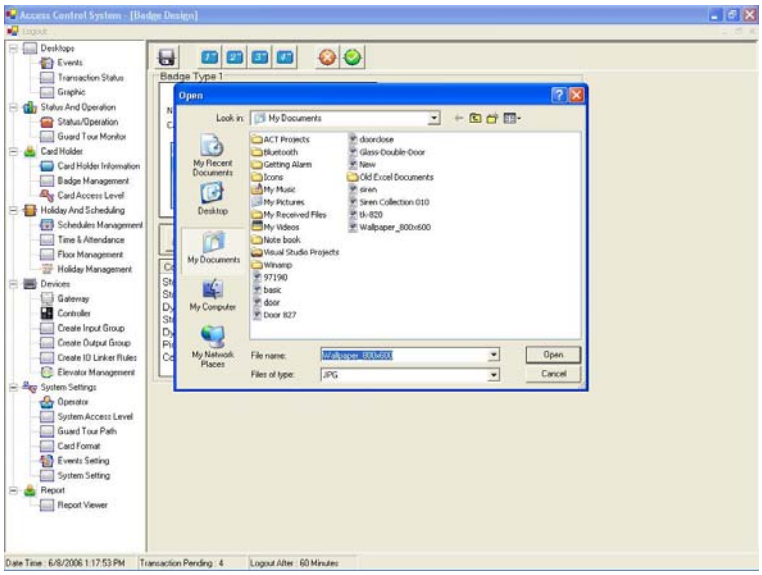

Figure 3: Adding Background

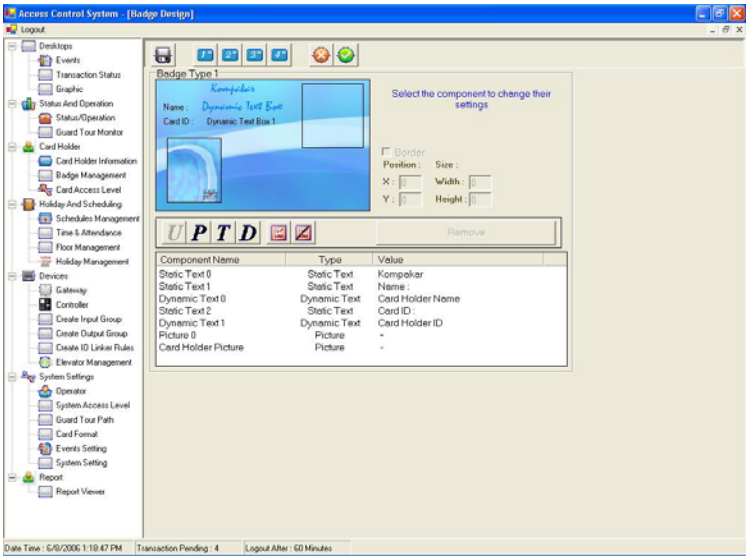

Figure 3: Adding Background (cont)

Figure 3 above depicts the steps to add a background to the system.

- To add the background to the template, select “Add Background”,
- Select the jpeg file for the background,
- Select ‘open’ to load the background.
- To remove the background from the template, click on the button “Remove Background”.

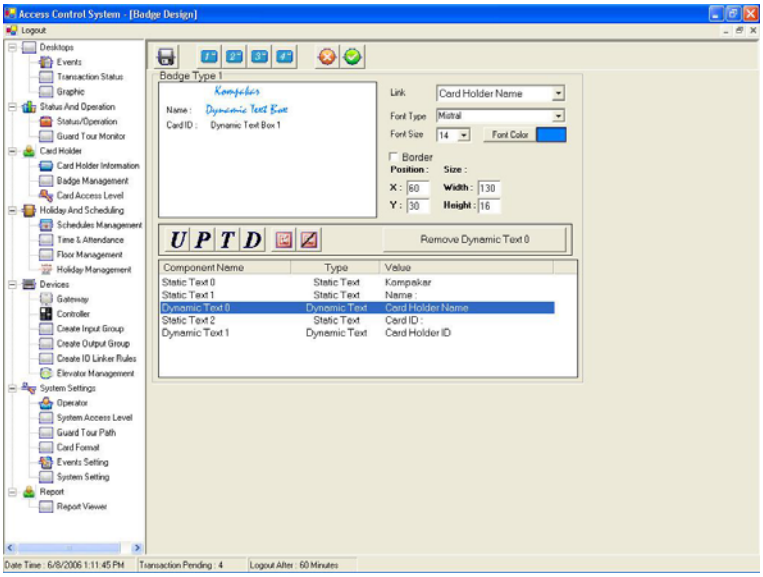

Figure 4:Adding Dynamic Text Field

- To add a dynamic text field, select the button “D” to add the text field.
- Users are able to utilise the drag and drop method to change the position of the dynamic text field or key in the position X and Y.
- To change the width and height of the text field, key in the integer number in the text field of Width and Height.
- User can choose either to hide the border of the text field or show the border of the text field by using the check box “Border”.
- In addition, the colour, font type and font size can be changed
- For font type, select the font type in the combo box.
- For the font colour, select “Font Colour” to change the colour of the text.
- Dynamic text field is a text field used to display the information based on the cardholder information.
- Users have to therefore choose which information the text field to link the system with.
- To link the text field to the information, select the chosen information in the combo box “Link”.

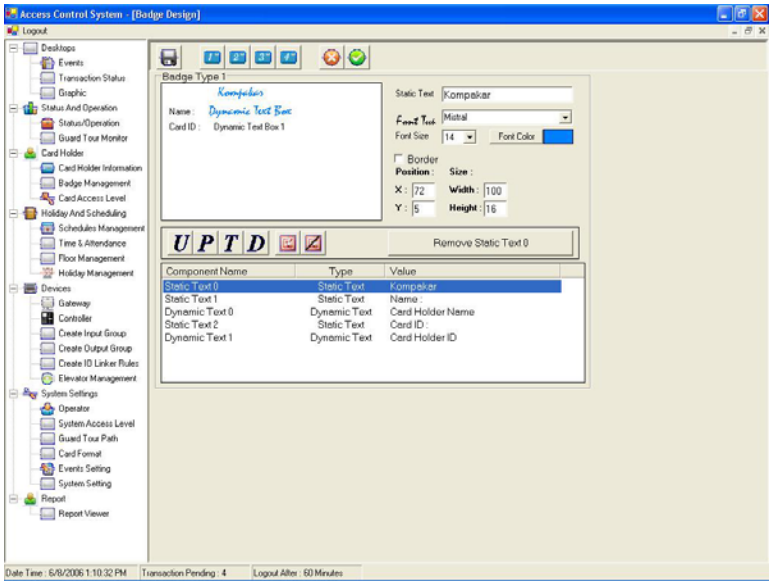

Figure 5: Adding Static Text

- To add static text field, select the button “T”. (Refer Figure 5).
- User can change the position of the static text field by using the drag and drop method or by typing the position of X and Y in the text field.
- To change the width and height of the text field, key in the integer number at the text field of “Width” and “Height”.
- To show or hide the border of the text field, select “Border”

- To change the font size of the text displayed, select the required size in “Font Size”.
- To change the colour of the font, select the button “Font Colour” and choose the required colour.
- To change the font type of the font, select the required font type in “Font Type”
- To change the displayed text in the static text field, key in the text to be displayed in the text field “Static Text”.

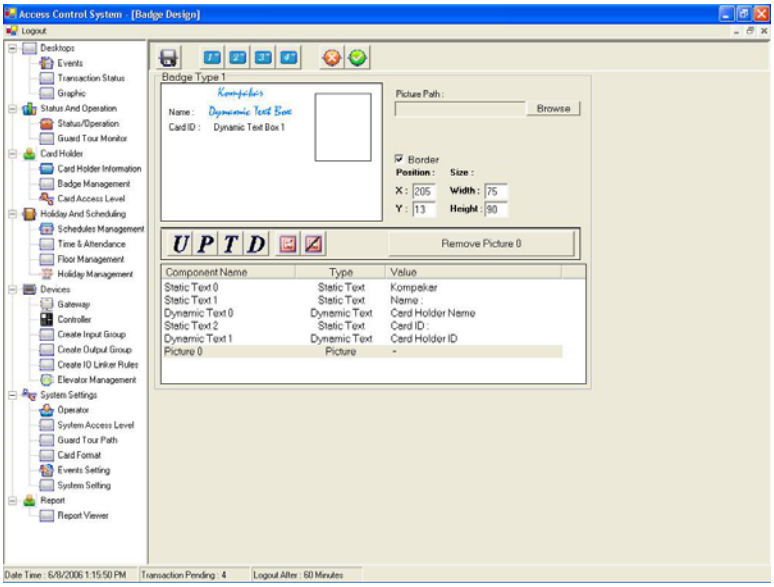

Figure 6: Adding Picture

- To add a picture field in the badge, select “P”. (Refer to Figure 6 above).
- Users can adjust the position of the picture by using the drag and drop method or by typing the integer number in the text field of “X” and “Y”.
- To change the width and height of the picture, key in the integer number in the “Width” and “Height” text field.
- To change the display picture, select “Browse” in the “Picture Path” and select the required Jpeg file.

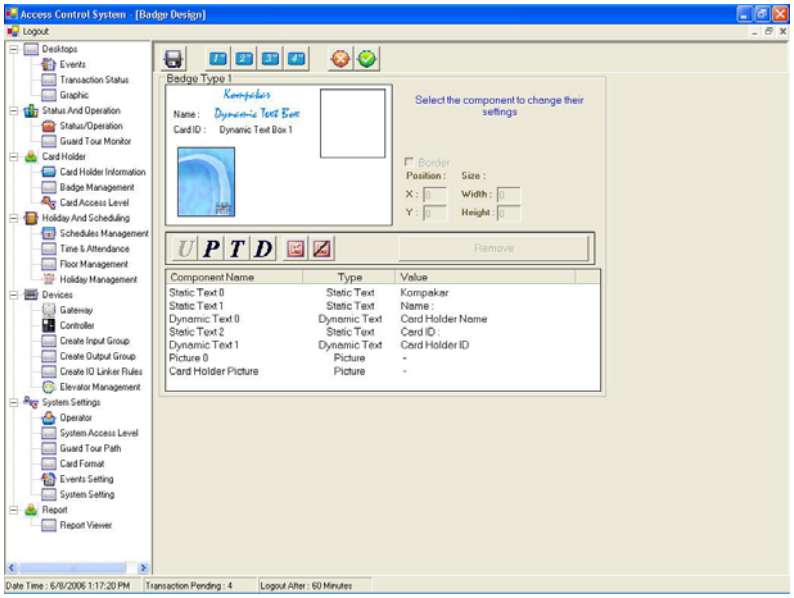

Figure 7: Adding Users Picture

- A users picture box is a picture field wherein the picture will change according to the user.
- To add a users picture, select “U”.
- User can adjust the position of the picture by using the drag and drop method or by typing the integer number in the text field of “X” and “Y”.
- To change the width and height of the picture, type the integer number in the “Width” and “Height” text field.

Note: to delete/remove any of the components, select the particular component in the list and click on the button “Remove <name of component>”. The selected component will be permanently removed

4.0 Card Holder

This feature enables administrators to create the card and assign the access level to a particular card. Each cardholder can have up to 8 different types of access level. In addition, badge printing is provided in this feature.

4.1 Holiday Management

This feature enables the user to define the holiday date and type. It also caters for events of recurring holidays.

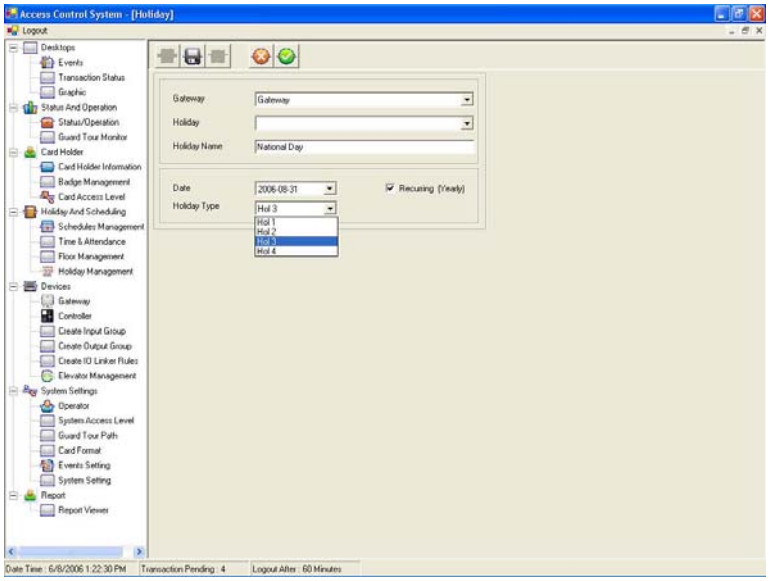

Figure 8: Adding Holidays

- To add a new holiday, users would firstly have to select which gateway the holiday belongs to *(This feature is to cater for situations where different department might have different holidays).*
- The system is capable of adding and supporting up to four (4) types of holidays. To insert a new type of holiday and to assign a name, select "Add". More details can be seen in Section 5.2 - Schedule Management where users can assign different access hours for each type of holiday.
- For instances where it is a global holiday (assigned to all gateways), select the "Global Holiday" in the combo box of "Gateway".
- Next, insert the holiday definition (name),
- Select the date of the holiday,
- Select the type of holiday,
- Select "Recurring Yearly" if this holiday is recurring.
- Select "Save" to add the new holiday.
- To edit existing holidays, select the gateway to edit and select the holiday to be edited in the header "Holiday".
- After editing, select "Save" to save the changes or select "Cancel" to cancel the settings.
- To remove an existing holiday, select the appropriate holiday and select "Delete" to remove the holiday.
- To exit the function, select "Close".

4.2 Schedule Management

This feature allows the user to create schedules. The schedules will indicate the authorised access time of each cardholder. Each schedule supports up to 4 time stamps *(restricts cardholder from access to a particular area during a certain time frame).*

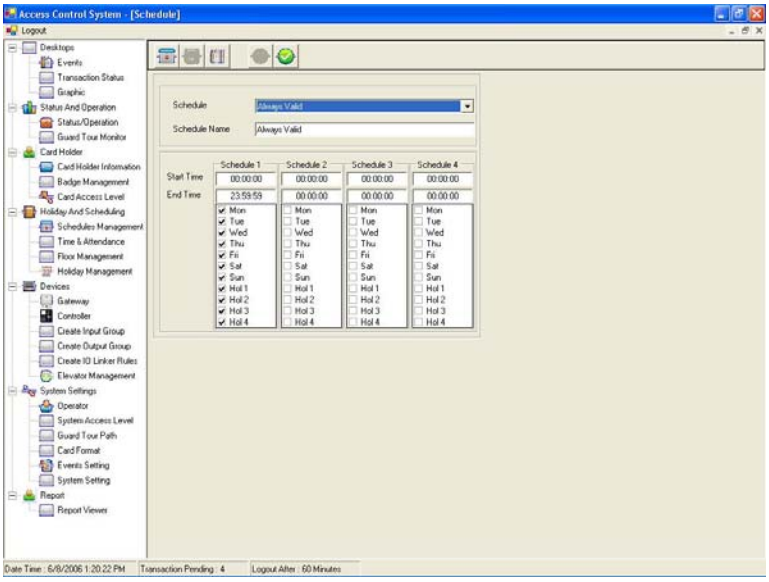

Figure 9: Schedule Management

- To add a new schedule, select “Add”.
- Key in the name for the schedule,
- Key in the start time and end time for each time stamp.
- Select “Save” to add the new schedule.
  Nb: Each schedule can have a maximum of 4 shifts
- To edit an existing schedule, select the required schedule in the “Schedule” field.
- After editing, select “Save” to save the changes or select “Cancel” to cancel the changes.
- To remove the existing schedule, select the schedule to be deleted, and select “Delete”.
- To exit the function, select “Close”.

4.3 Card Access Level

This feature allows the administrator to create a group and assign the schedule for each access point. The created access group will be assign to the cardholder to indicate that the particular cardholder can only access the respective areas according to the schedule.

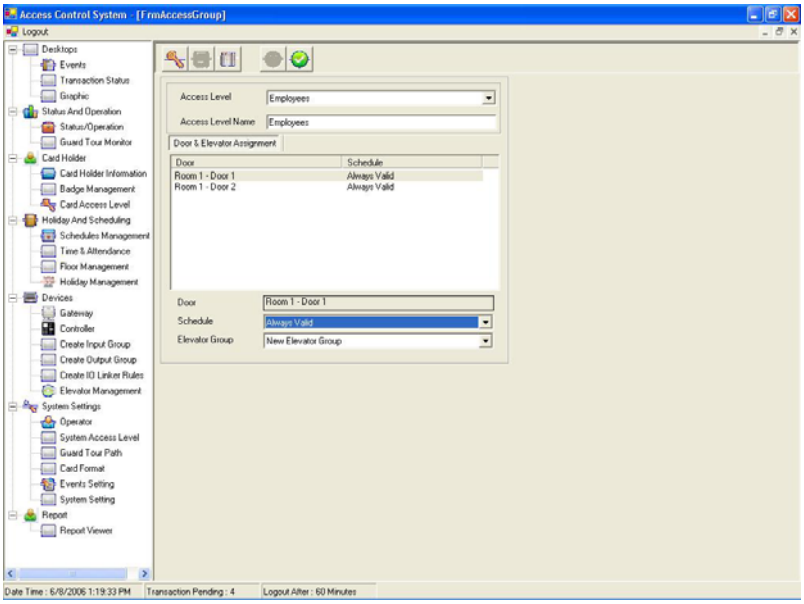

Figure 10:Card Access Level

- To create a new access group, select “Add”,
- Key in the group name
- Select the schedule for each access point.
- Select “Save” to add the new access group.
  Similarly, the elevator group would also have to be assigned in order for the cardholder in this group to have access to the elevator.
- To edit the existing access group, select the access group in the “Access Level” menu.
- Select “Save” to save the changes after editing
- Select “Cancel” to cancel the changes.
- To remove the existing access groups, select the access group in the “Access Level” menu
- Select “Remove” to delete the access group.
- To exit the feature, Select “Close”.

4.4 Time & Attendance

The profile created in this feature will be assignd to the cardholder for the purpose of calculating the working hour and OT hour of the cardholder.

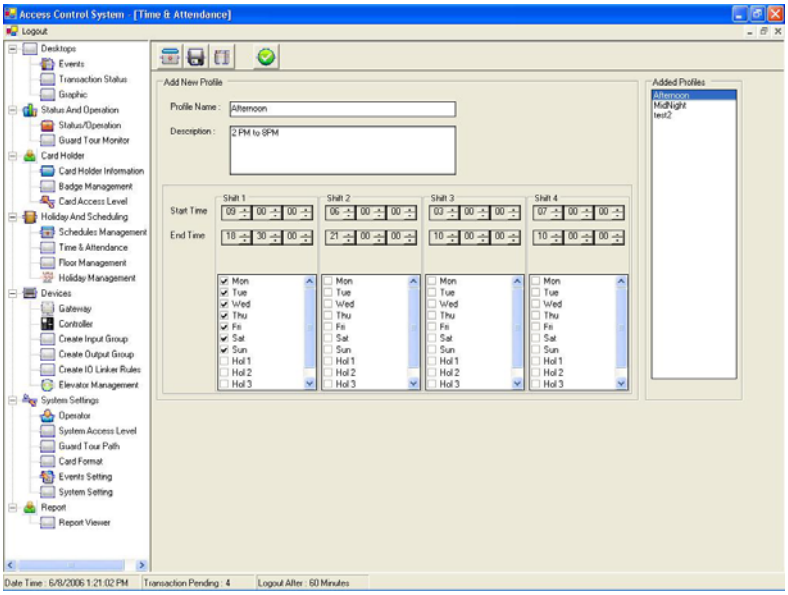

Figure 11: Time and Attendance

- To add new profile, select “Add”
- Type the profile name and description
- Adjust the start time and end time for the profile
- Select “Save” to add the new profile.
  Nb: each profile can support upto four (4) different working hours per week
- To edit the existing profile, select the profile in the list at the right of the screen
- Select “Save” to save the changes after editing.
- To remove the existing profile, select the profile in the list at the right of the screen
- Select “Delete” to remove the selected profile.
- To exit the function, select “Close”.

4.5 Card Holder Information

This feature enables the administrator to assign the cardholder access level, basic information and type of access method. In addition, the administrator can disable the card by selecting the card as deleted to deny the cardholder access to the area.

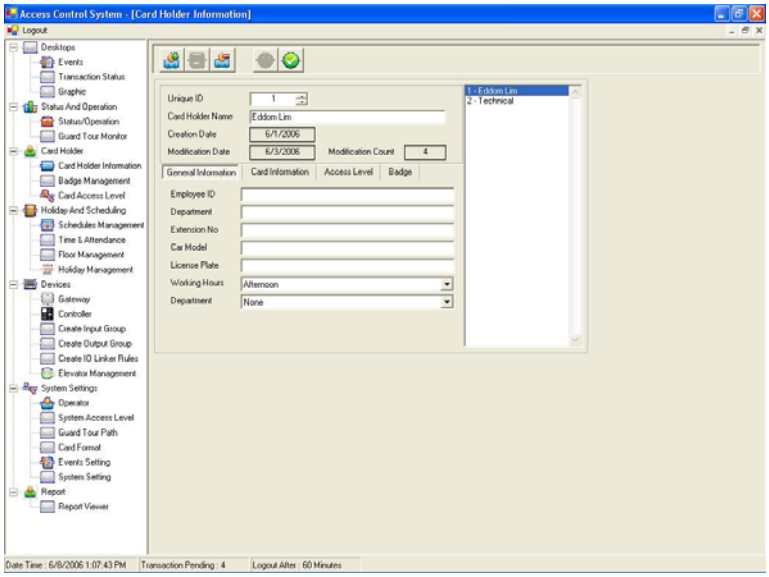

Figure 12:Card Holder Infomation

- To add a new cardholder, select “Add”.
- Key in the information and select “Save” to add the new cardholder.
- Click on the tab “General Information” to insert information such as, Employee ID, Position, Extension No., Car Model, License Plate, Working Hours and Department.

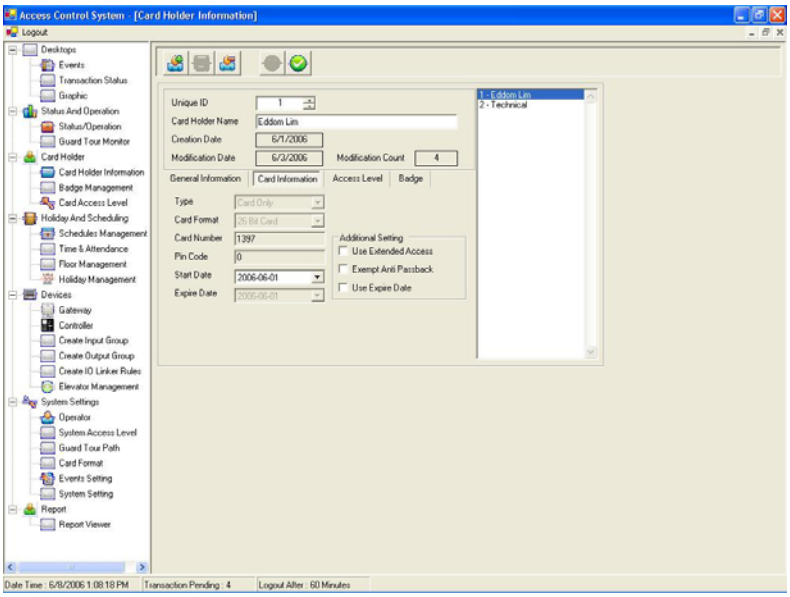

Figure 13: Card Information

- Select “Card Information” to define the access type of the cardholder.
- The type of access can be Card Only (cardholder access the area by providing the card), Pin Only (cardholder access the area by providing the pin code), Card And Pin (cardholder access the area by providing both the card and pin code) and Card Or Pin (cardholder can access the area by either providing the card or the pin code).
- Select “Card Format” to prefix the format of the card, eg: 26 bit card format.
- Select “Card Number” to designate the number of the card. The number must be unique and cannot be duplicated.
  Note: Selecting the wrong format will designate that this card would not be able to be read by the reader and will render the card number invalid permanently
- Select “Pin Code” to insert the code number to be used by the cardholder to access the site. The pin code must be unique and cannot be duplicated.
- The Administrator can define the start date and expire date of the card by selecting the “Use Expire Date” feature. If left unchecked, the card will be set to not have an expiry date.
- In addition, to allow the cardholder to open the door for a longer time, the administrator can select “Use Extended Access”.
- The cardholder can also be exempt from the antipassback function by selecting “Exempt Antipassback”.

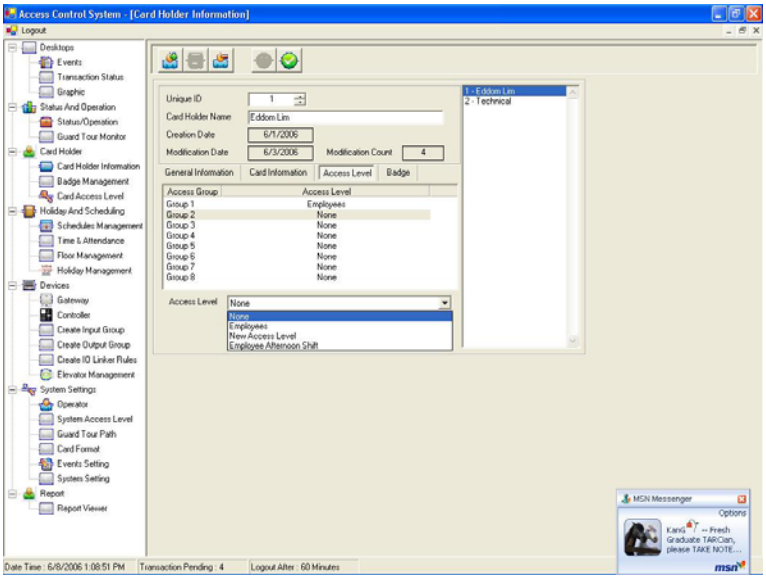

Figure 14: Access Level

- To assign the access group to the cardholder, select “Access Level” as seen in Figure 14.
- A cardholder can have up to 8 different access groups.

- To assign the access group, select the number of group in the list, and then select the access level in the “Access Level” option.

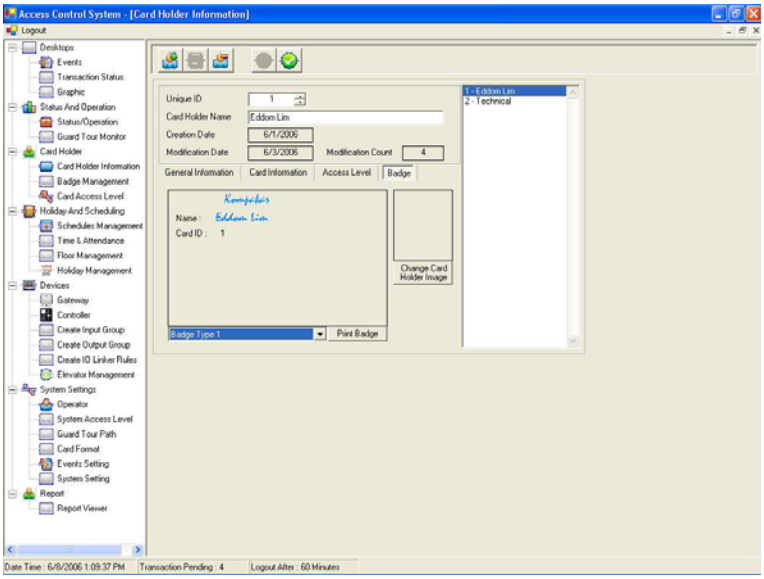

Figure 15: Badge

- To assign the picture to a cardholder, select “Badge”
- Select “Change Card Holder Image”.
- To display the different templates for the cardholder, select the template in the options available.
- To print the badge by using a badge printer, click on the button “Print Badge”.
- To edit the existing cardholder information, select the cardholder name from the list at the right of the page.
- Select “Save” to save the changes or select “Cancel” to cancel the changes.
- To block the cardholder from accessing the entire area, select “Mark As Deleted”.
- To exit the function, select “Close”.

5.0 Guard Tour Monitor

This feature provide real time guard tour monitoring. It identifies if a guard has successfully completed the preset path. The system is capable of generating a report for management purpose.

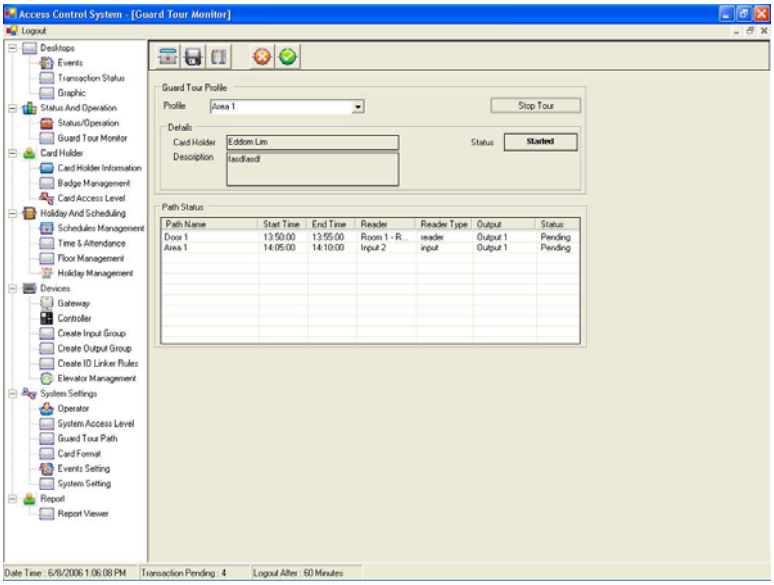

Figure 16: Guard Tour Monitor

- To start the guard tour, select a profile.
- Select “Start Tour”.
- If the guard fails to reach a predetermined point in time, the path will be highlighted in red.
- If the guard successfully reached the predetermined points in time, the path will be highlighted in green.
- Select “Close” to exit this function.

6.0 Interactive Floor Plan

This feature allows the user to load the floor image and insert the components (reader, door, alarm and input) into the floor image.

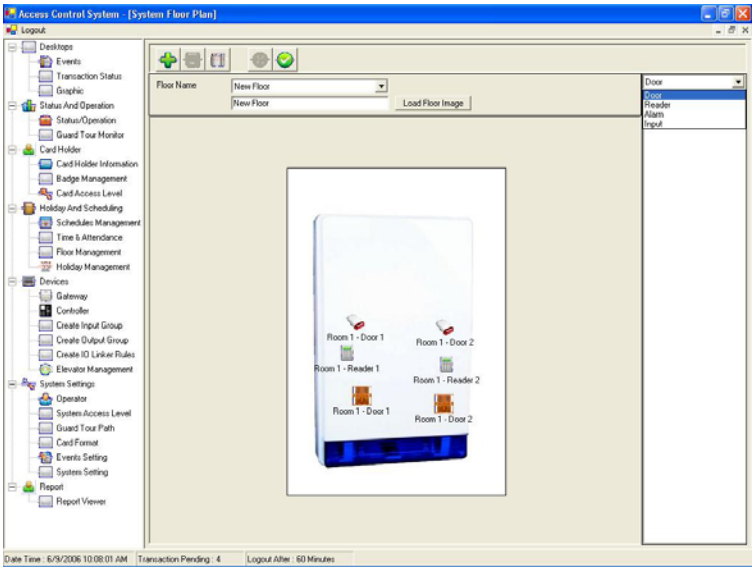

Figure 17: Interactive Floor Plan

- To add a new floor design, select “Add”,
- Key in the floor name,
- Select “Load Floor Image” to load the floor image.
- To add in the component, click on the component combo box at the right of the screen to choose the category of component to add.

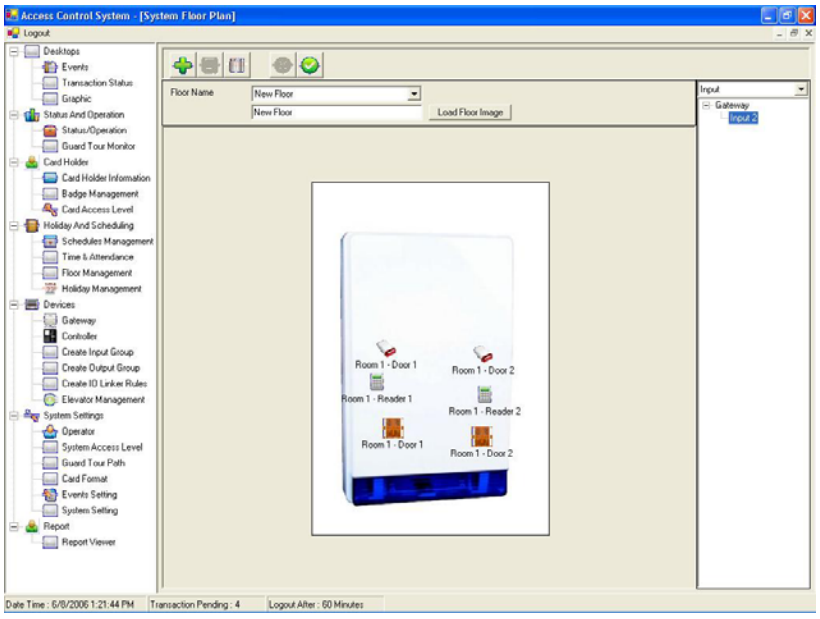

Figure 18: Interactive Floor Plan (Cont)

- Select “+” to expend the component list.

- Use the drag and drop method to add or remove the components.
- Select “Save” to save the changes.
- To edit the floor designed, select the floor in the “Floor Name” menu.
- Change the design and select “Save” to save the settings or select “Cancel” to cancel the settings.
- To remove the floor design, select the floor in the “Floor Name” menu and select “Delete” to remove the selected floor.
- To exit the function, select “Close”.

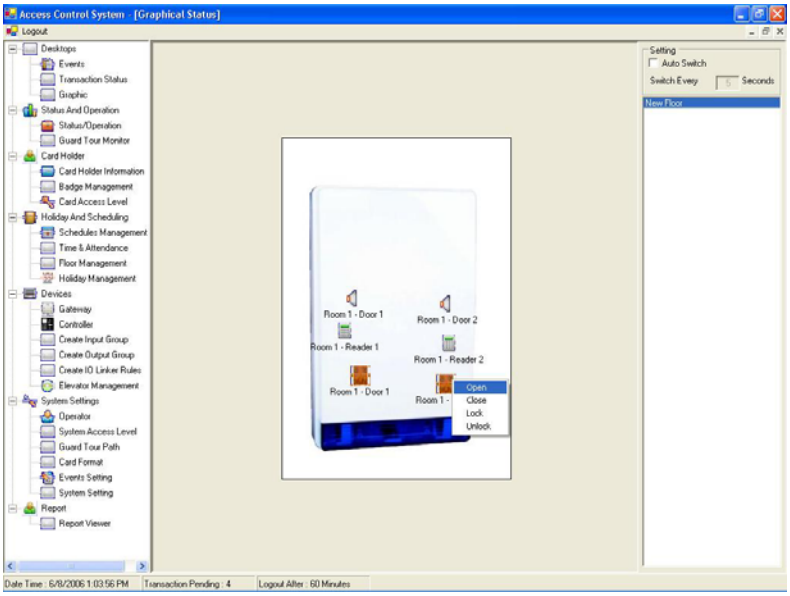

Figure 19: Interactive Graphical View

- The Interactive Graphical View as seen in Figure 19 show the status (door open, alarm raised, door open too long, etc) in the graphical method according to the floor plan designed by the user.

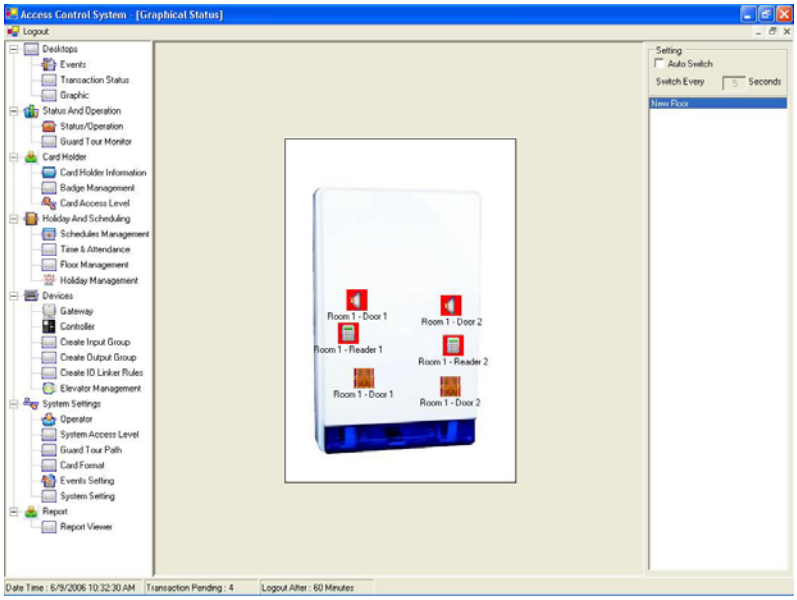

Figure 20: Interactive Graphical View (Cont)

- If the gateway of a component is disconnected, the background colour of that component will turn red. *(Refer to Figure 20 above)*
- If the gateway is connected, user can give a command (open door, turn off alarm, etc) to the selected component.
- If there are a number of status on each floor those needs to be display, the user can use the "Auto Switch" function. This function will switch the graphical floor to the next floor periodically.

7.0 Real Time Events

Allows the user to monitor real time event from the Vertx. Users are able to also monitor the client event (operation done by the operator) using this feature.

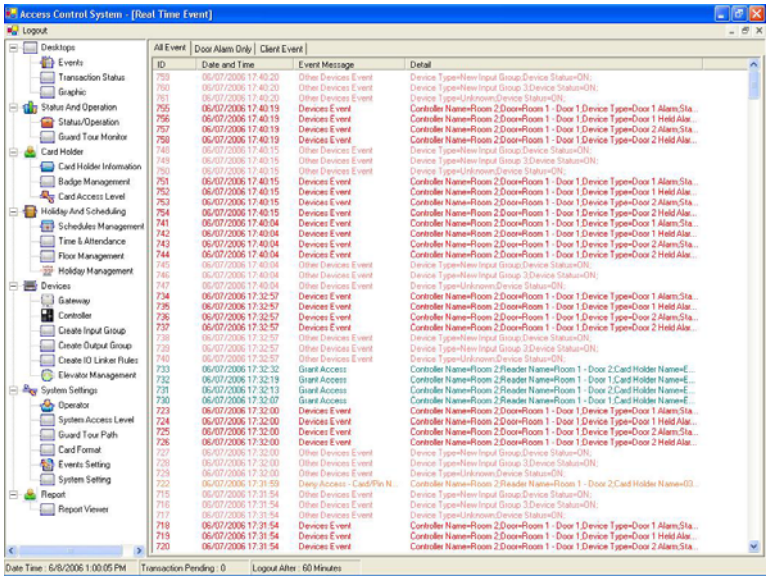

Figure 21: Event Listing

- The "All Event" option as seen in Figure 21 provides a list of all events in the descending order of date and time.

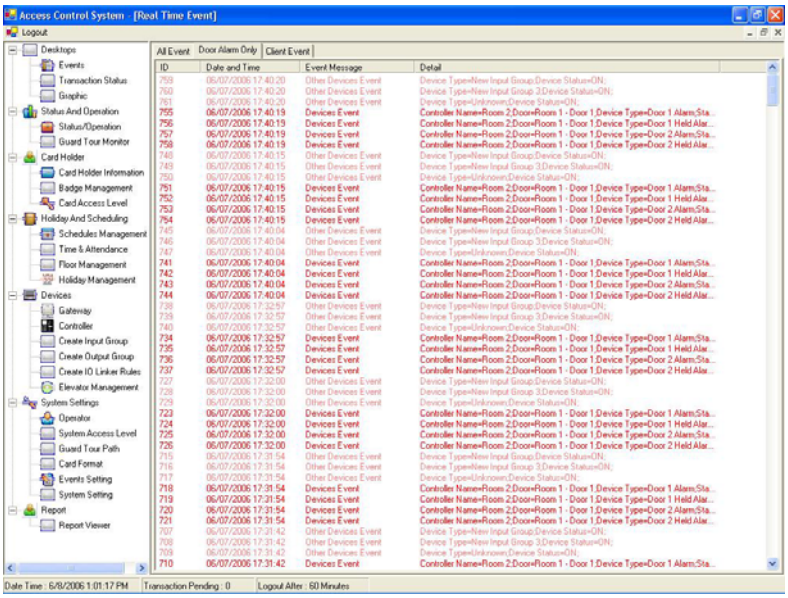

Figure 22: Door Alarm Only Listing

- The "Door Alarm Only" option displays a list of alarm events only.

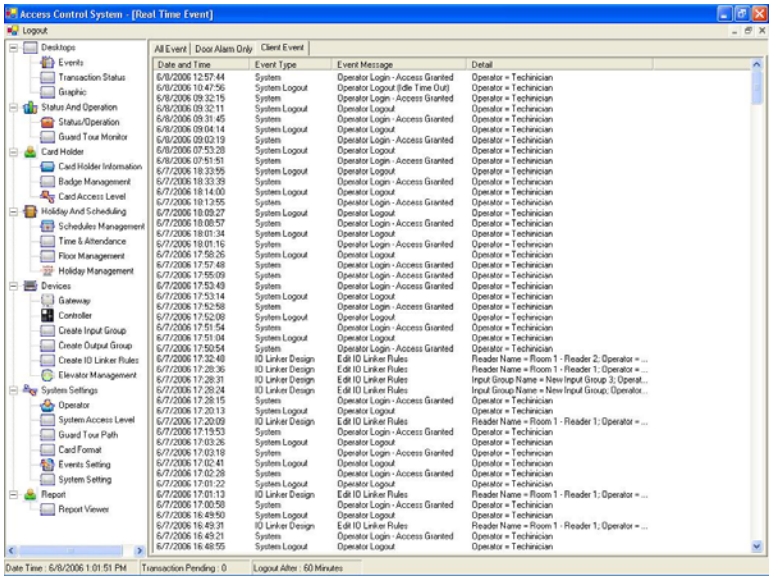

Figure 23: Client Event Listing

- The "Client Event" displays the list of operations performed by the operator only.

8.0 Status or Operation

By utilising this feature, the status of the door, reader, alarm, controller and gateway can be displayed. In addition, the administrator is able to control the door and alarm. The actions that can be performed are Open Door, Close Door, Lock Door, Unlock Door and Turn Off Alarm.

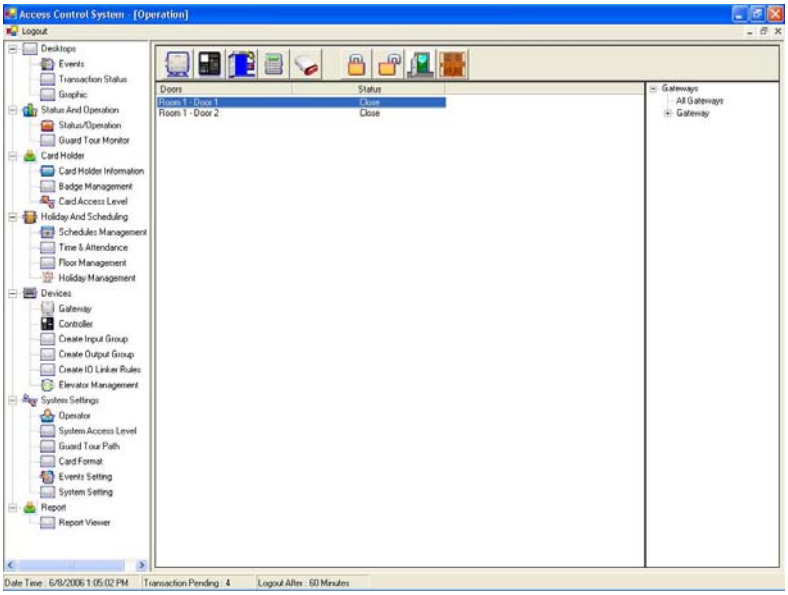

Figure 24: Status or Operation

- To view the status of the doors, select  and select the gateway to be viewed.
- To view the status of the readers, select  and select the gateway to be viewed.
- To view the status of alarm, select  and select the gateway to be viewed.
- To view the status of the gateway, select  .
- If the controller is disconnected, no action can be made on the doors, readers or alarms that belong to that controller unit.

9.0 System Settings

9.1 System Access Level

This feature allows the user/administrator to create the operator access group with different access levels. For example, a guard might be able to access the function of viewing the interactive floor plan or events only; whilst the system administrator can access all functions etc.

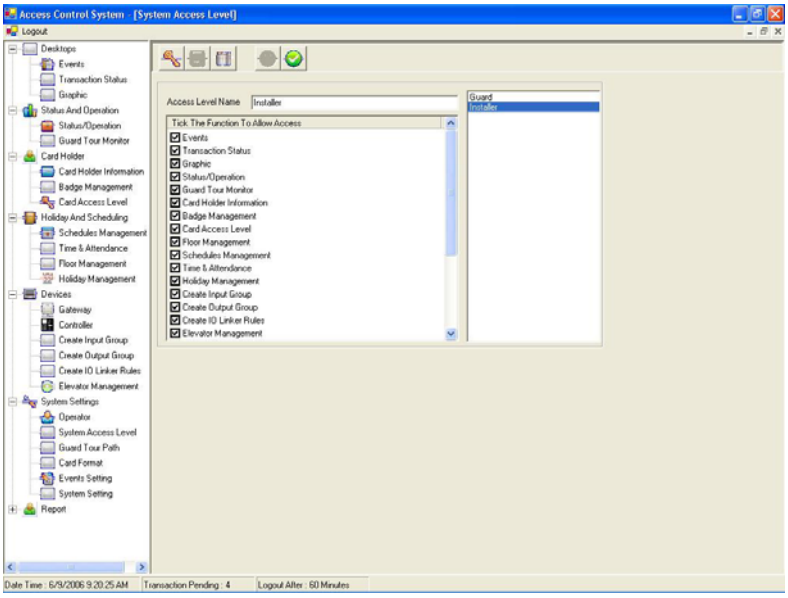

Figure 25: System Access Level

- To create a new group, select “Add”,
- Edit the name of the group,
- Select the functions that will be allowed for this group,
- Select “Save” to add the new group.
- To edit an existing group, select the group from the list on the right.
- After edit the information, select “Save” to change the edited group.
- Users can cancel the edited group (before saving) by selecting “Cancel”.
- To delete the group, select the group in the list on the right
- Select “Delete” to delete the selected group.
- To exit this function, select “Close”.

9.2 Operator

This feature allows the user/administrator to add new operators to the system. Operators are the persons who will be assigned to manage or monitor the Vertx controller. Different operators can be placed in charge of different functions. Every operator will be provided with a login name and a login password and the operator must login in, in order to use those functions. Other additional features are provided to make this system more secure, for example, if operators try to login with the wrong password more than a preset number of times, his account will be locked.

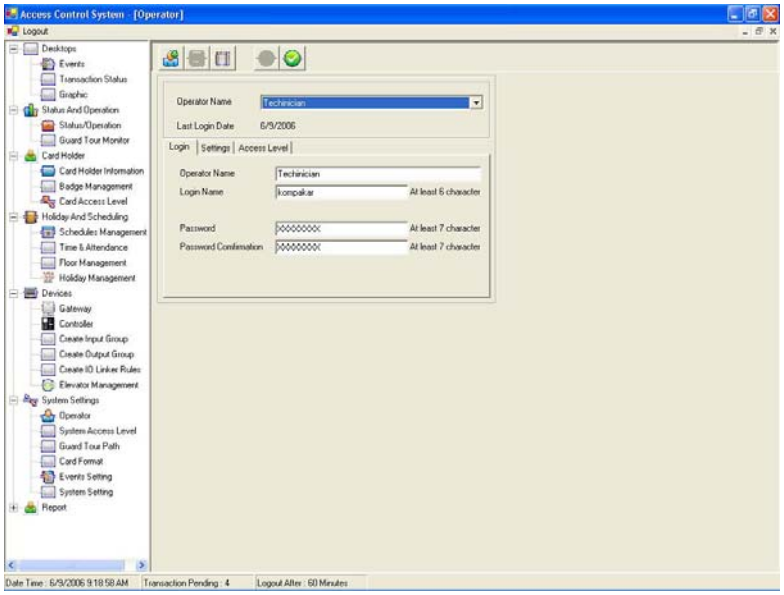

Figure 26: Adding New Operator

- To add new operator, select “Add”
- Type in the Operator Name, Login Name, Password and Password Confirmation. *Note: Login Name and Operator Name cannot be duplicated with the existing operators.*

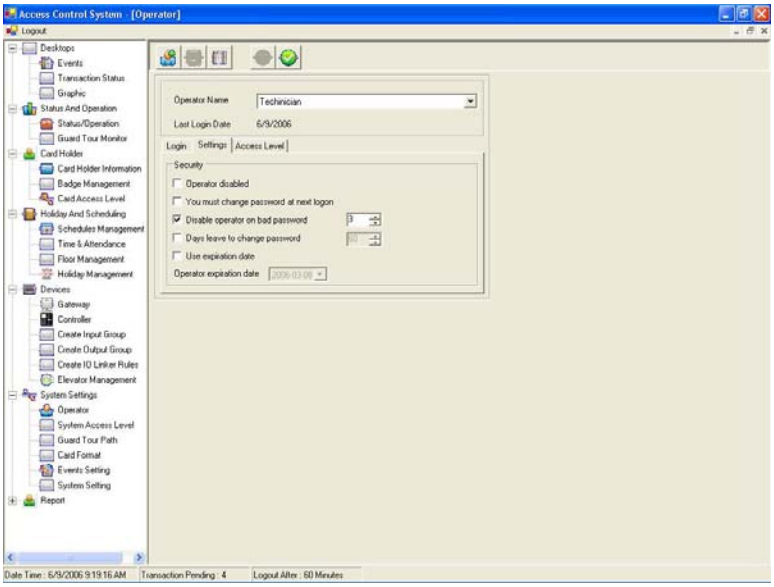

Figure 27: Operator Settings

- Select "Settings" to edit the details for this account.
- Operator disabled - Select this option to disable the operator permanently.

- You must change password at next logon – This ensures the operator changes the password on the next login.
- Disable operator on bad password - Lock the account if an operator logs-in with the wrong password for x times (x = number indicated by administrator).
- Days leave to change password - Indicate the day leave to force the operator to change his/her password.
- Use expiration date - If this option is selected, the operator cannot login after the expiry date indicated by the administrator.

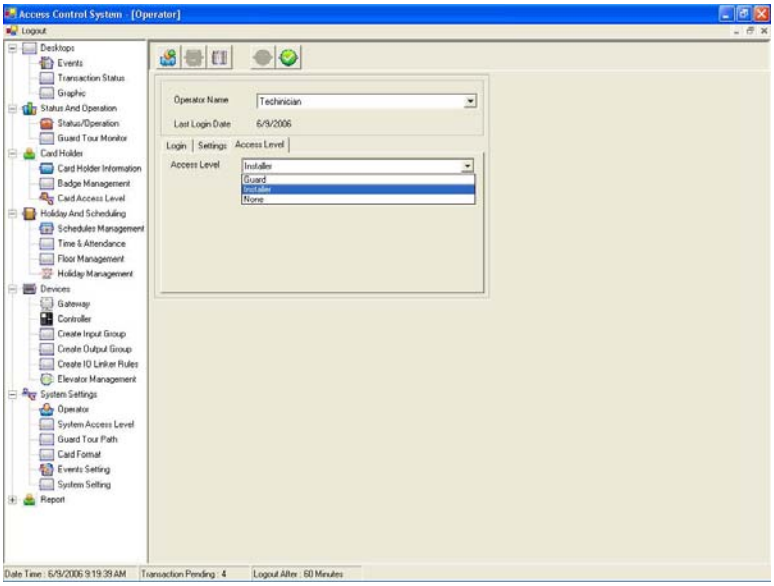

Figure 28:Operator Access Level

- Select "Access Level" to assign the access level of this operator.
- To edit the existing operator, select the operator name in the combo list
- Change the settings and select “Save” to save the changes.
- To cancel the changes made (before saving), select “Cancel”
- To delete the existing operator, select “Delete”
- To exit this function, select “Close”

9.3 Card Format

This is a critical function, which should be access by the installer or trained administrator only. With this feature, installer can add a new card format and download the format decryption file to the Vertx. Replacing the decryption file wrongly can cause the Vertx to deny access by the cards.

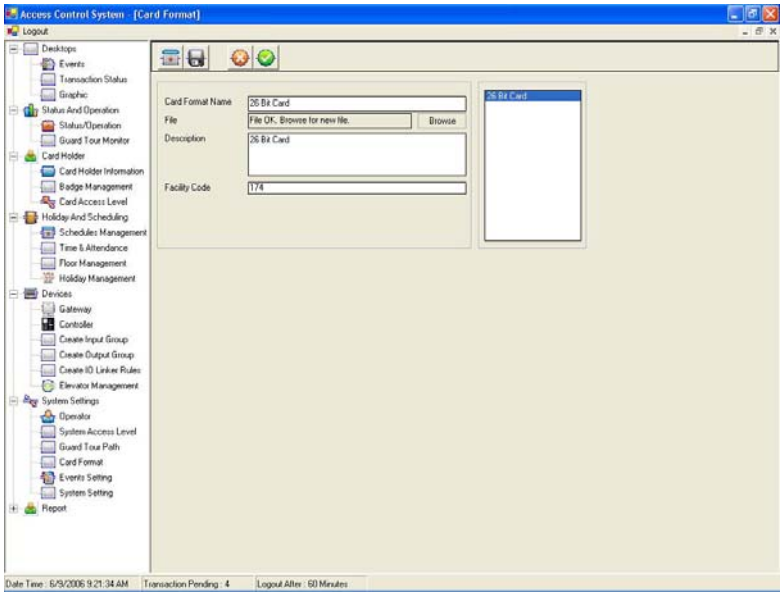

Figure 29:New Card Format

- To add new card format, select “Add”.
- Type in the card format name, description and facility code.
- Load the file of that card format.
- Select “Save” to add the new card format.
- To edit the existing card format, select the card format at the list on the right
- Change the setting and select “Save” to save the changes.
- The user can cancel the changes before saving by selecting “Cancel”.
- To exit the function, select “Close”.
- Note: Once a card format is added, it cannot be removed.

9.4 Events Setting

This is a critical function and should be access by the installer or trained administrator only. Editing the details wrongly can cause an error on events being received by the server application. By using this feature, the installer can add new event types according to the API of the Vertx. In addition, the colour to be display for particular events can be changed as well. The installer can filter out the unwanted events by using this feature as well.

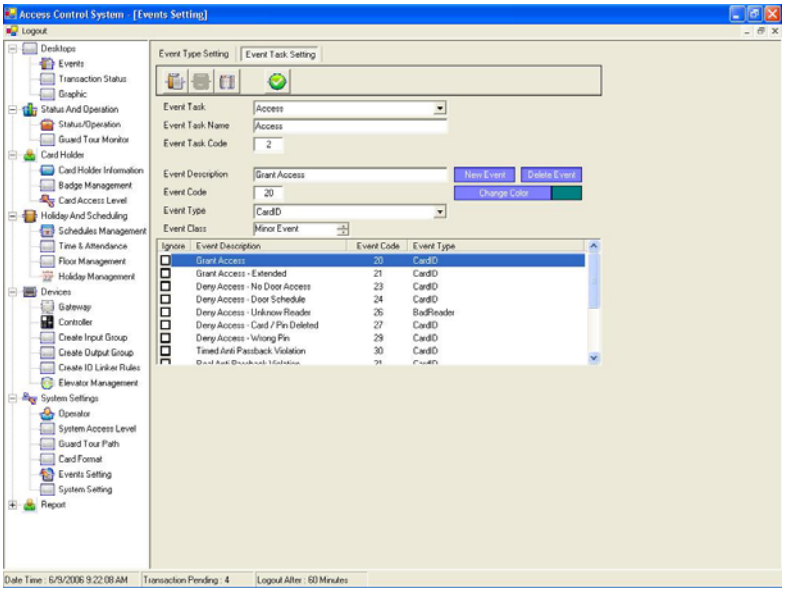

Figure 30: Events Settings

- To change the colour display for events, select the event in the list
- Select “Change Colour”
- Select the colour and select “OK”
- Select “Save” to save the settings.
- To filter the event, select “Ignore the event”
- Select “Save” to save the settings.

9.5 Guard Tour Path

This function is used for the purpose of guard tour, wherein the administrator can edit the path and time required for the guard to complete for a specific day on a weekly basis. Specific outputs can be performed (light turned on, etc) before the guard arrives and turns off after the guard leaves.

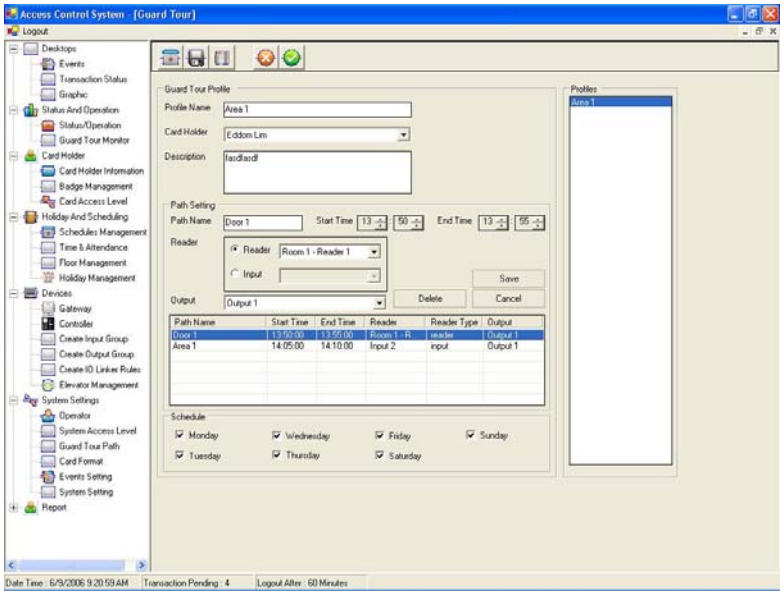

Figure 31: Guard Tour Path

- To add a new profile, select “Add”.
- Type in the profile name, description and assign the card holder (guard) to the profile.
- To add a new path, key in the path name, start time, end time, select the input type (reader / input), select the output and select “Add Path”.
- Save the profile by selecting “Save”.
- To edit the profile, select the profile at the list on the right, edit the changes and select :”Save” to save the changes.
- To delete the profile, select the profile at the list on the right and select “Delete”
- To exit the function, select “Close”.

9.6 System Setting

This feature allows the administrator to change certain setting like the background of the main page (client application), the departments within the company, allows for configuration setting to be downloaded to a particular controller, etc.

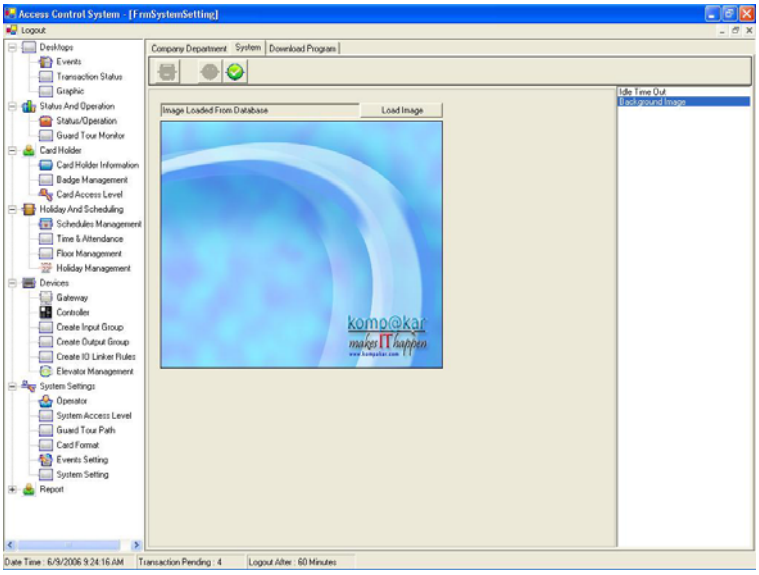

Figure 32: System Settings

- To change the background image of the main screen, select “System”
- Select “Background Image” from the list on the right
- Select “Load Image” to load the image from your PC.

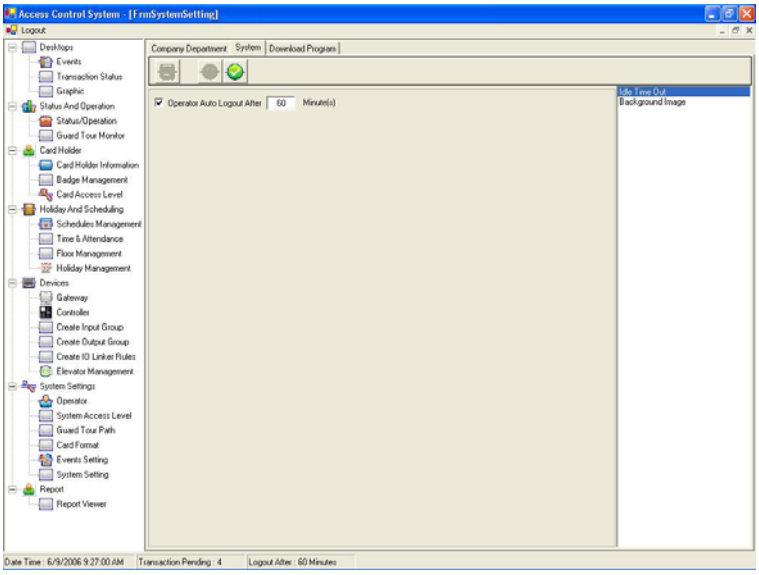

Figure 33: Idle Timing

- To change the idle time out time (time to logout the operator automatically if the operator is idle for a specific timeframe), select “System”
- Select “Idle Time Out” from the list on the right
- Specify the number of minute(s) in the text box provided

- To disable the auto logout feature, do not select the check box.

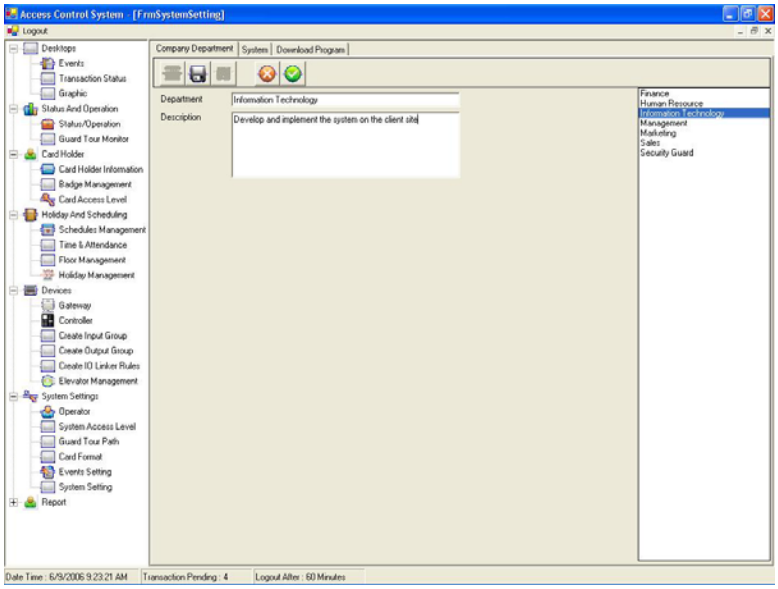

Figure 34: Company Department

- To change the department information, select “Company Department”.
- To add a new department, select “Add”,
- Key in the department name and description
- Select “Save” to add the new department.
- To edit the information of an existing department, select the department from the list on the right.
- Select “Save” to save the changes or select “Cancel” to cancel the changes.
- To remove a department, select the department from the list on the right, and select “Delete”

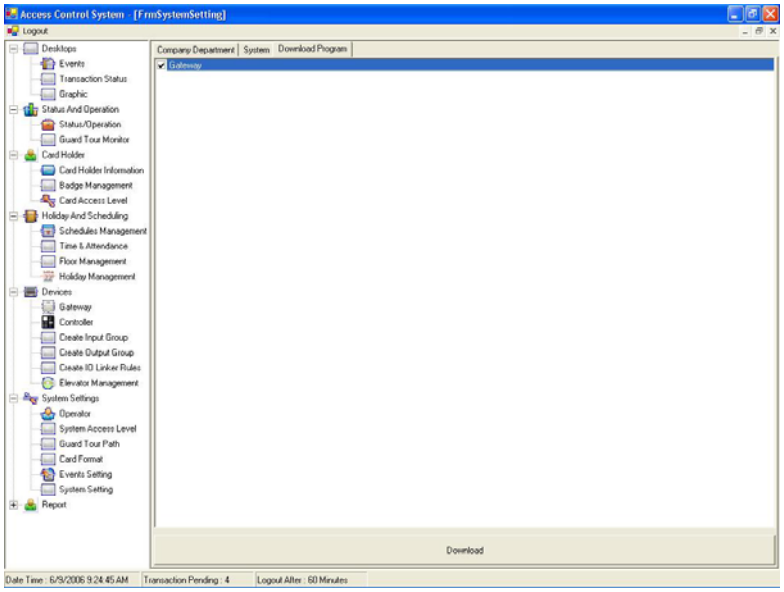

Figure 35:Download Program

- To download the configuration to the Vertx, select “Download Program”.
- Select the Vertx in the list
- Select “Download” to start download.

10. Transaction

This function displays all pending transactions. From this function, the installer can justify the status of the server or Vertx. If a transaction remains pending for a prolonged period, this means either the server is down or the connection between the server and the Vertx has broke down. All functions will be deleted upon execution. The number of pending transaction can also be seen in the status bar.

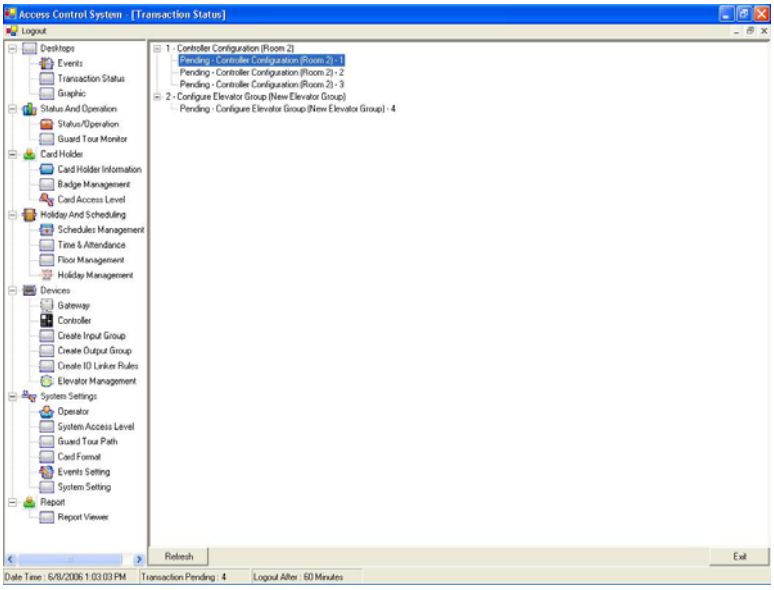

Figure 36:Transactions

- To view the details of the transaction, select "+" to expend the list of transactions.
- To refresh select "Refresh". (Nb: Users are required to manually refresh the screen in order to view the latest transaction),
- To exit the function, select "Exit".

11. Vertx Configuration

11.1 Gateway

This feature allows the installer to add new Vertx V1000 or Vertx V2000 to the system.

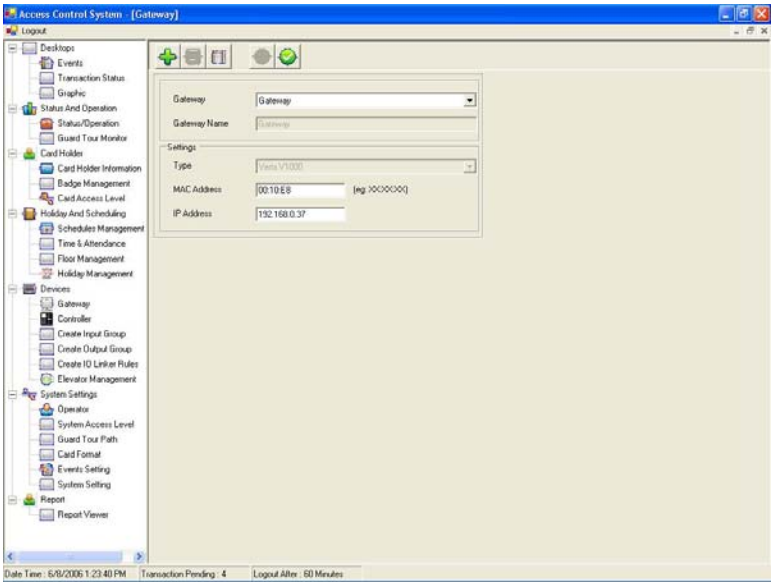

Figure 37: Gateway

- To add a new gateway, select “Add”.
- The installer is required to key in the name, MAC address, IP address and type of Vertx. Select “Save” to complete adding the new gateway.
- To edit an existing gateway, select the gateway in the combo box. After the editing is complete, select “Save” to save the changes or select “Cancel” to cancel the changes made.
- To remove an existing gateway, select the gateway in the combo box
- Select “Delete” to remove the gateway permanently.
- To exit this feature, select “Close” to exit.

11.2 Controller Configuration

This feature allows for the installer to add, edit or remove the controllers (Vertx V100, V200, V300). This configuration is critical and should be preformed carefully. Should the Vertx controller be configured wrongly, it would lead to unexpected Vertx behaviour.

- To add a new controller, select the gateway from the list located at the right of the screen
- Select “Add”.
- Key in the controller name
- Select the controller type (V100, V200, V300)
- Indicate the interface ID of the controller.

Thee detail description of V100, V200, V300 are as follows:

11.2.1 Configuring Vertx V100

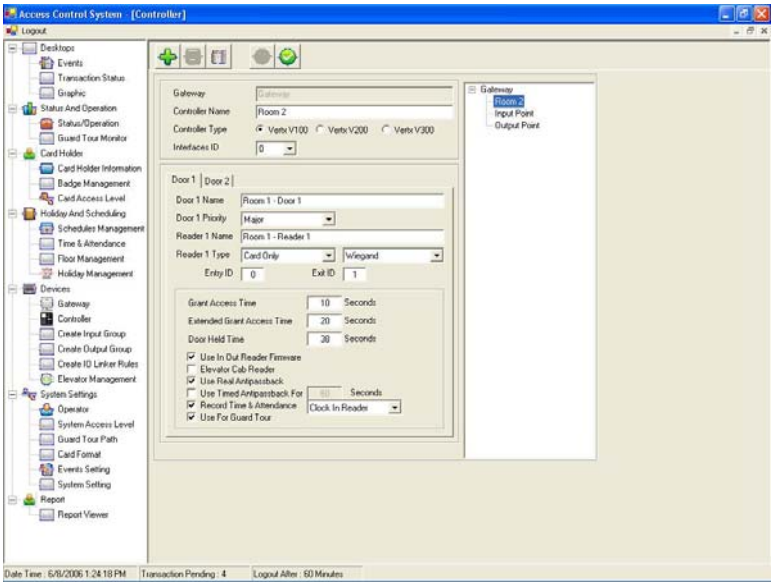

Figure 38: Configuring Vertx V100

- Each Vertx V100 contains 2 doors (reader).
- To configure Reader 1 (Door 1), please select “Door 1” and to configure Reader 2 (Door 2), please select “Door 2”.
- The installer must provide the name for the doors and readers. Each door must be assigned a priority level, which will be used in the event receiving function. The alarm event for the door with the higher priority will be show at the top of the lists of alarm event. This is in order for the viewer to be able to notice the alarm event in order of importance).
- There are 2 types of readers for Vertx V100, Wiegand and Clock Data.
- There are 4 types of methods in using the Vertx V100 reader; Card Only (pin number will be ignored), Pin Only (card will be ignored), Card And Pin (user must provide Card and Pin code to access), Card Or Pin (user can use either the card or a pin code to access).
- Each door has a Grant Access Time, Extended Grant Access Time and a Door Held Time. Grant Access Time is the time a door will remain open while a valid Card/Pin is read, Extended Grant Access Time is the time a door will remain open while a valid Extended Mode of Card/Pin is read, Door Held Time is the time after which the reader will beep if the door remains open for more than a specified period.
- Vertx V100 is preinstall with a basic firmware (Reader 1 open door 1, Reader 2 open door 2). There may be a situation whereby it would be necessary to open door

1 using reader 1 and reader 2 (In Out Reader). To utilise the Vertx V100 as a In Out Reader firmware, select the "Use In Out Reader" check box.

- Each elevator will require a reader to recognize the access level of a particular card holder.
- To add the reader as an elevator reader, select the "Elevator Cab Reader" check box. However please note that for readers being used as an elevator reader, it will not be able to provide the function of Time & Attendance, Guard Tour, In Out Reader and Antipassback (Real/Timed).
- Antipassback is the feature which ensures a cardholder does not batch twice on a particular reader. There are 2 types of Antipassback, Timed Antipassback or Real Antipassback.
- Timed Antipassback will disable the access permission of a card for a given period once the card has been read.
- Real Antipassback will disable the access permission of a card permanently if that card entry ID is not the entry ID of that reader. Therefore to use the real antipassback, the installer would have to specific the Entry ID and Exit ID of each reader correctly.
- To record the Time & Attendance of a cardholder, the installer would need to specify which reader will be use for the Time & Attendance feature by selecting the "Record Time & Attendance" check box. In addition, the installer would also have to indicate whether the reader is being used for Clock In or Clock Out.
- To use the reader as a path for a guard tour, the installer would need to select the "Use For Guard Tour" check box, in order for the server application to recognize this reader as a guard tour path reader.

11.2.2 Configure Vertx V200

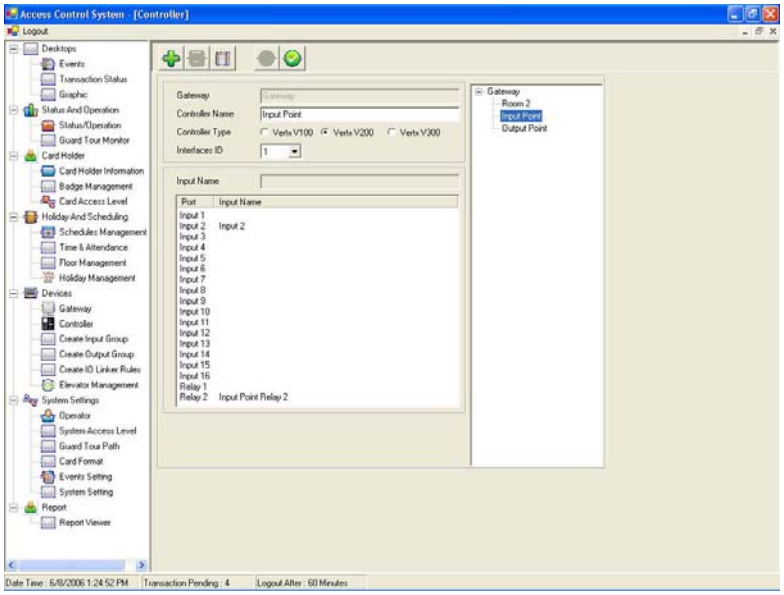

Figure 39: Configure Vertx V200

- Vertx V200 is an input detector, consisting of 16 input monitoring points and 2 output ports.
- To activate an input monitoring point, select the input port number in the list and key in the name for that input (e.g. Vibration Sensor) and save the setting.
- To remove an input monitoring point, remove the name for that input and save the setting.

11.2.3 Configure Vertx V300

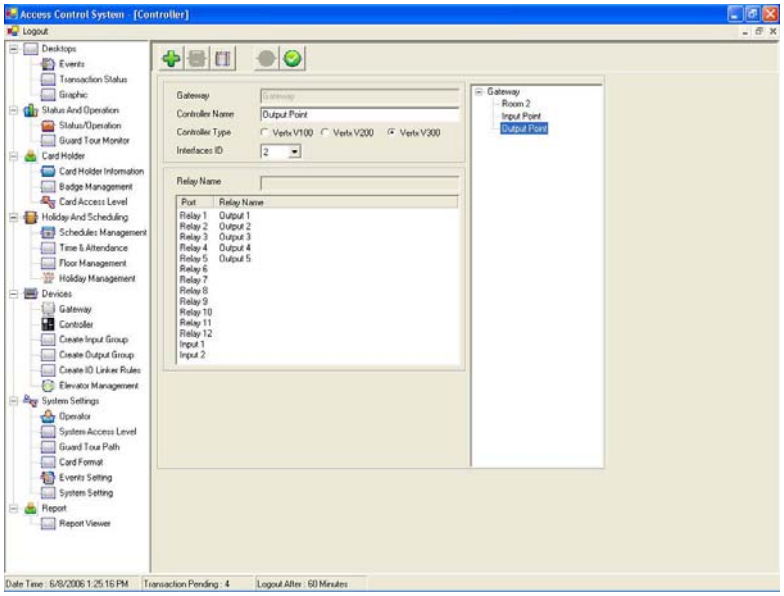

Figure 40: Configure Vertx V300

- Vertx V300 consists of 12 output ports and 2 input monitoring points.
- To activate the output port, select the port number and key in the name for that port and save the setting.
- To remove the output port, select the port and clear the name for that port and save the setting.

11.3 Elevator Management

This feature allows the installer to assign the reader to the elevator and create the elevator level group to assign to the cardholder.

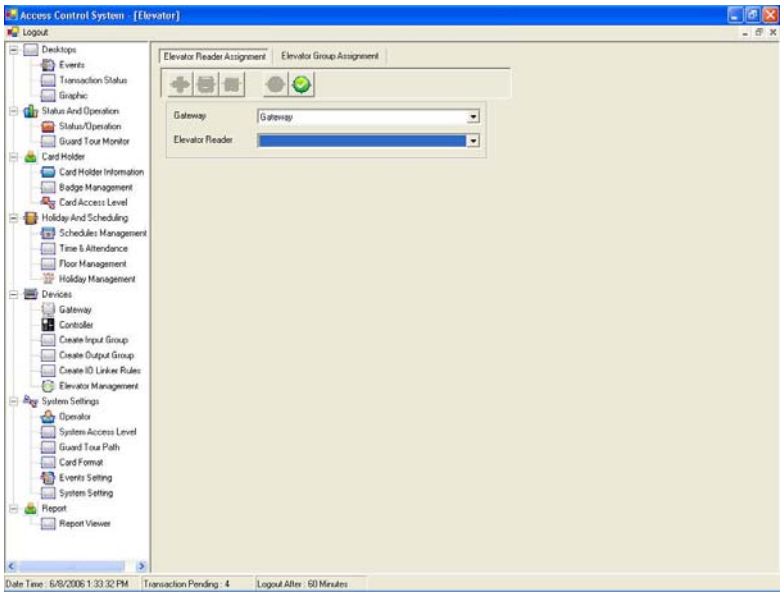

Figure 41: Elevator Management

- To assign a reader to an elevator, select “Elevator Reader Assignment”
- Select the gateway *(only one elevator is allowed for each gateway)*
- Select the reader through the options of “Elevator Reader”.
  Nb. If there is no reader set as an Elevator Cab Reader, the combo box will be empty.

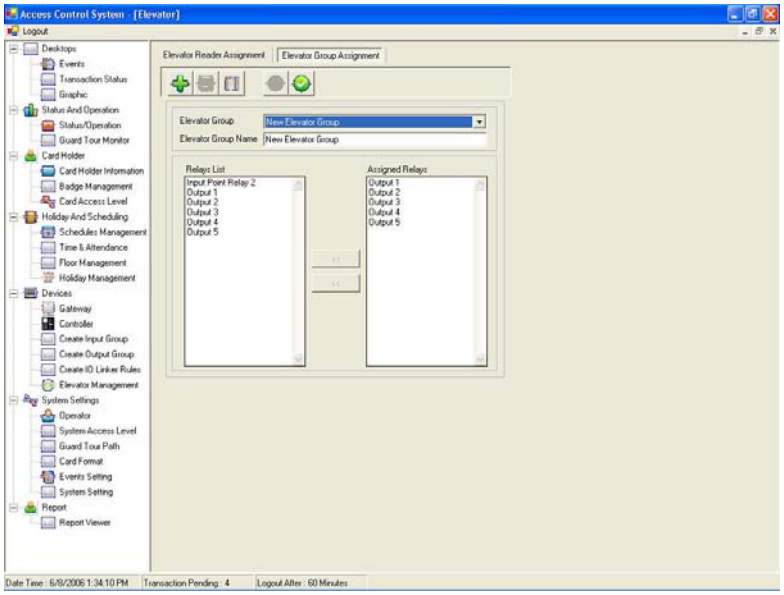

Figure 42: Elevator Group Assignment

- To add a new group of elevator levels, select “Add”.
- Key in the group name
- Assign the level to the group by selecting the level in the relay list and select “>>”.
- To remove the level from the group, select the level in the assigned relay and select “<<”.
- Select “Save” to add the new group.
- To remove an existing group of elevator levels, select the group in the combo box of “Elevator Group” and select “Delete” to remove the group.
- To exit the function, select “Close” to exit.

11.4 Create IO Linker Rules

This feature allows the installer to configure the event triggering behaviour of the Vertx system. For example, an output grouping can be turn On/Off if an input grouping is triggered. In order to do this, the installer is required to create the input group and the output group.

11.4.1 Create Input Group

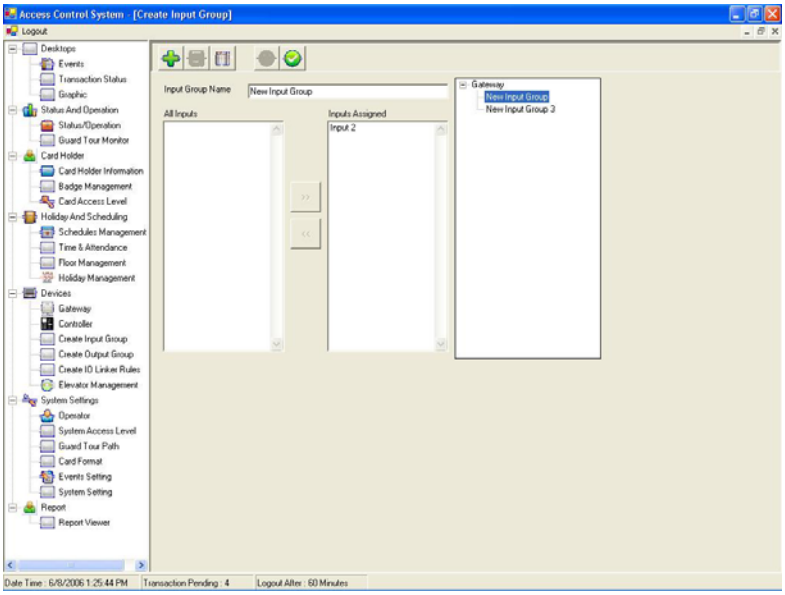

Figure 43: Create Input Group

- To add a new input group, select “Add”
- Key in the group name.
- To assign the input to the group, select the input in the list of “All Inputs” and select “>>” to assign the input to the list of “Inputs Assigned”
- To remove the input from “Input Assigned”, select the input in the list of “Input Assigned” and select “<<”.
- Click “Save” to add the new group.
- To edit the existing input group, select the group from the list on the right
- Select “Save” to save the changes, or select “Cancel” to cancel the changes.
- To delete the existing input group, select the group from the list on your right
- Select “Delete” to remove the selected group.
- To exit the function, select “Close”.

11.4.2 Create Output Group

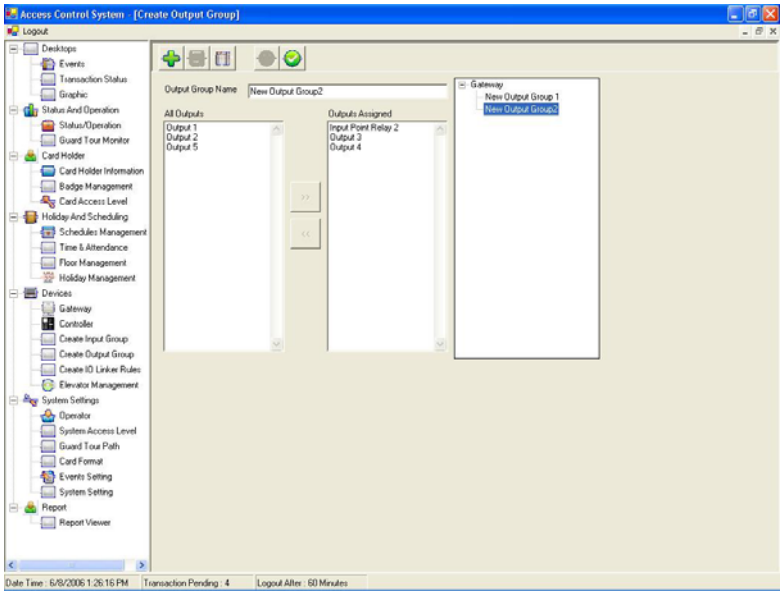

Figure 44: Create Output Group

- To add a new output group, select “Add”
- Key in the group name.
- To assign the output, select the output in the list of “All Outputs” and select “>>”
- To remove the output from “Output Assigned”, select the output in the list of “Output Assigned” and select “<<”.
- Select “Save” to add the new group.
- To edit the existing output group, select the group from the list on the right.
- Select “Save” to save the changes, or select “Cancel” to cancel the changes.
- To delete the existing output group, select the group from the list on the right
- Select “Delete” to remove the selected group.
- To exit the function, select “Close”.

11.4.3 Create IO Linker Rules

This feature allows the installer to create 2 types of triggering, one is input triggering (trigger the output group when the input group is triggered), and the other is reader triggering (trigger the output group when the reader is read).

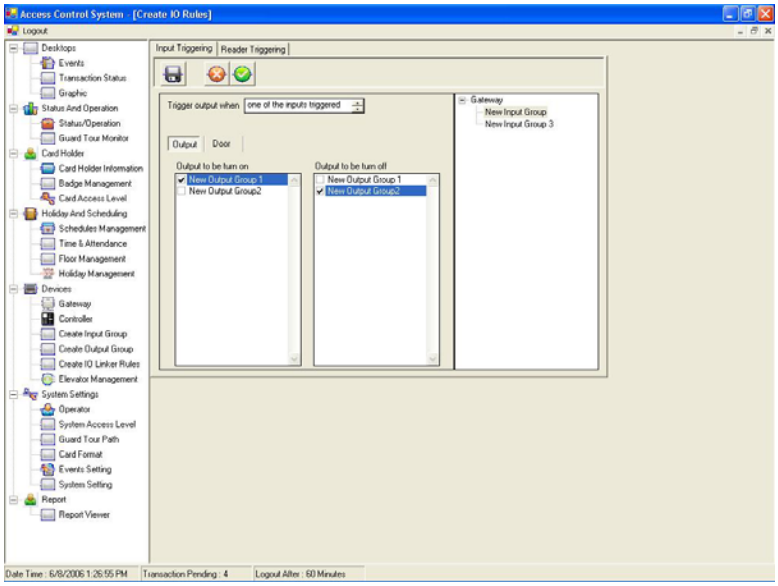

Figure 45: Input Triggering

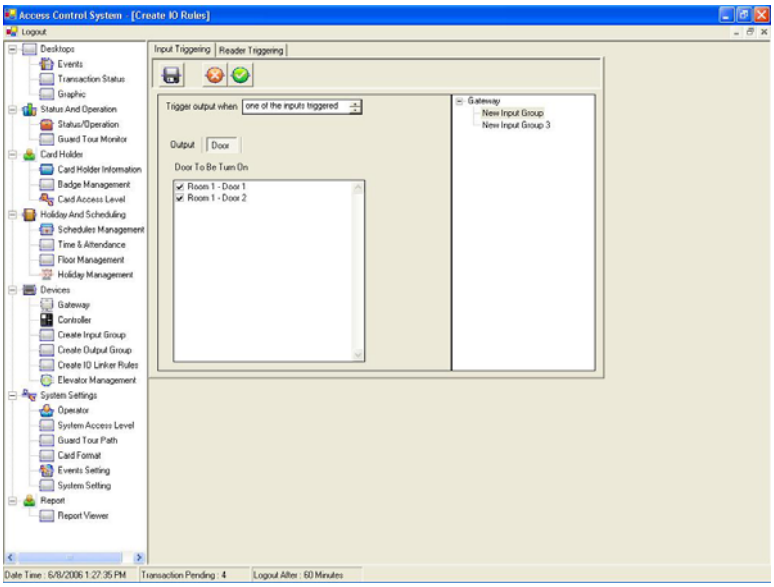

Figure 46: Input Triggering (Cont)

- To configure the Input Group Triggering, click on the tab “Input Triggering”.
- For input triggering, 2 type of output can be trigger, one is output group and the other one is door. For output group, the installer can choose either to turn on the output group or turn off the output group.
- For door, the installer can choose which door to open if the input is triggered.
- Select “Save” to save the settings.

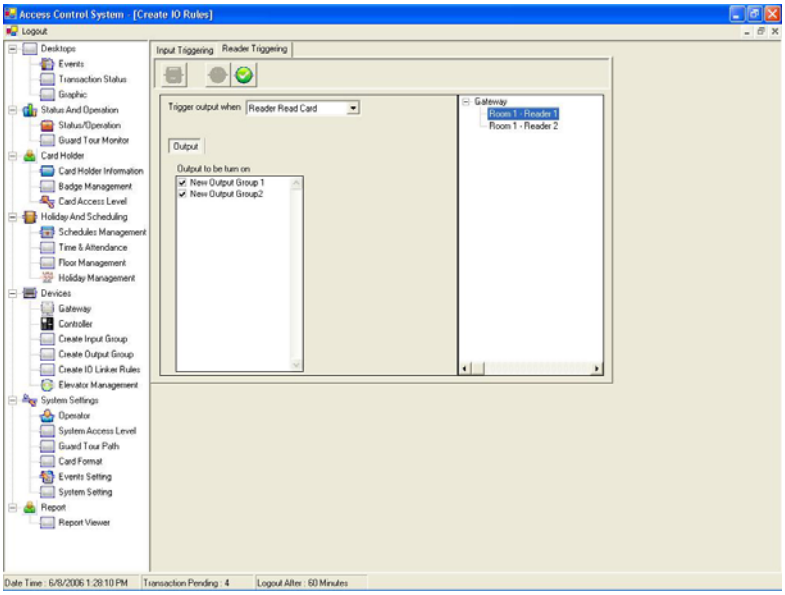

Figure 47: Reader Triggering

- To configure the reader triggering, select “Reader Triggering”.
- Select the reader and the output group to been trigger.
- Select “Save” to save the settings.