

GEM[®]

DG-2000 Manager System

Software Operation Manual



Installation Guide

1. Click the setup file for GEM DG 2000 Manager System. Follow the instructions to setup.



2. Double Click the icon for GEM DG 2000 Manager System. First user needs to go through an initialization process.



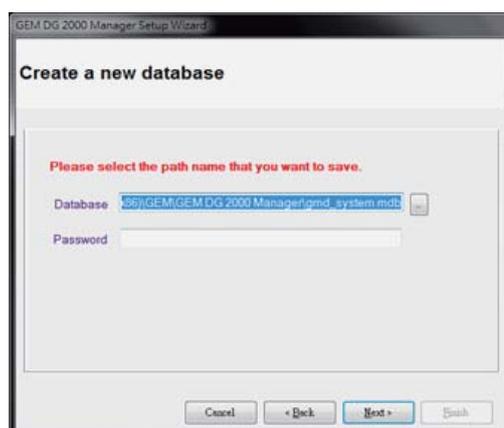
3. The GEM DG 2000 Manager System requires the system to install Microsoft Access 2007 or above, so that the software can store system parameters and user data. Click "Next".



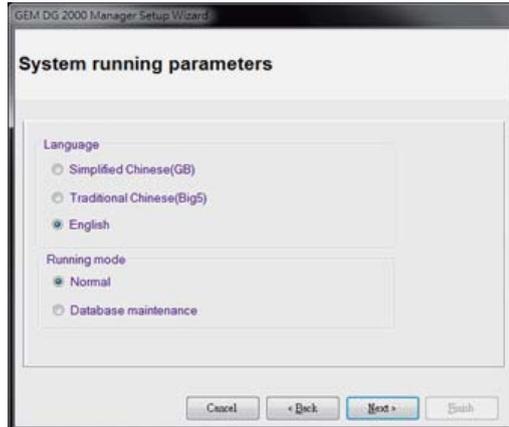
4. If user doesn't have a database setup for GEM DG 2000 Manager System, please choose "I have no database" and click "Next".



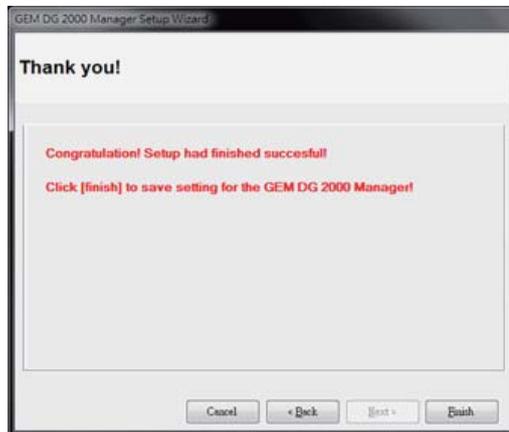
The GEM DG 2000 Manager System will use installation folder by default to save the database file. Click "Next".



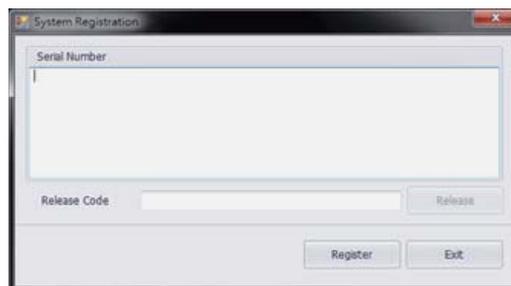
5. Choose the language for the user interface. For configuring standalone controllers, please choose the running mode as “Normal” and click “Next”.



6. Click “Finish” to finish the initialization process.



7. Input the Serial Number and Release Code provided by distributor.



Operation Guide

When user executes GEM DG 2000 Manager System, need to enter User and password. The default user account is “**admin**” with empty password, but user can always change it in the system.



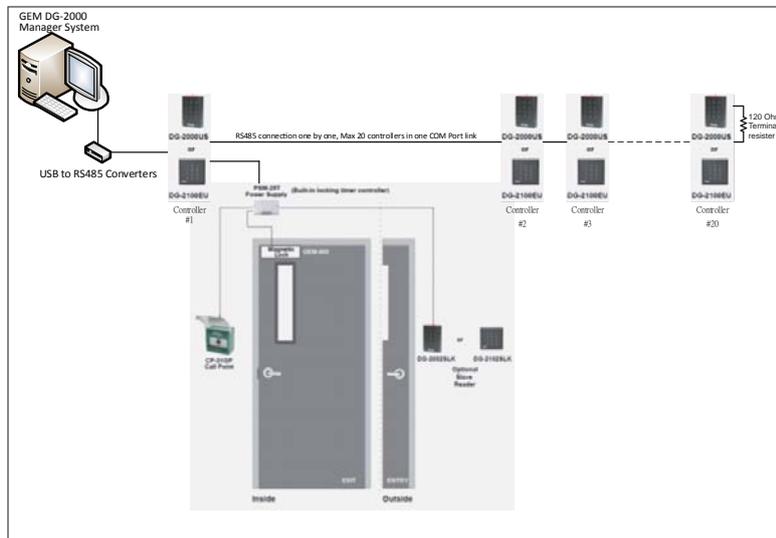
Setup a link and configure controllers

Controllers are normally connected in the master-slave mode one by one. So each controller should first set up with a unique ID. The ID configuration procedure for the controller should be under programming mode, press: * 7 + ID + # + ID + #. For example, if you want to set an ID to '2', you need to press “*72#2#”, then we can say all the controllers are in the same link. Click the “Link” button to create a link.

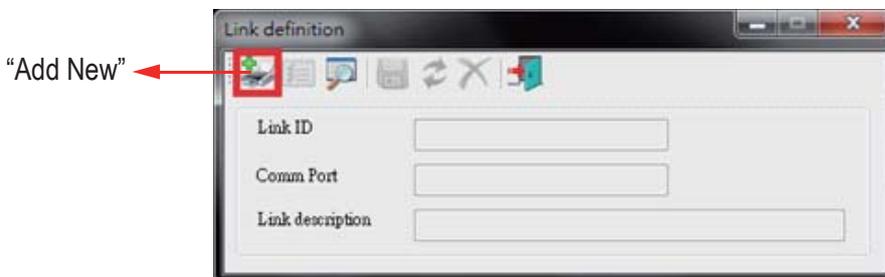


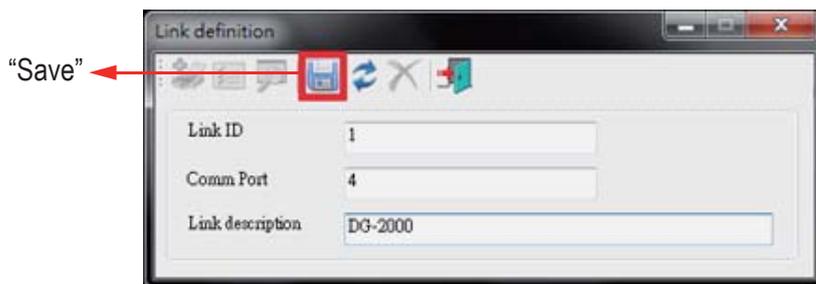
Installation Diagrams

Use PIN1-1 and PIN1-2 of DG-2000US / DG-2100EU to connect to PC or connect to next controller, and terminate resistors of 120 Ohms to be used on the end of long RS-485 loops.

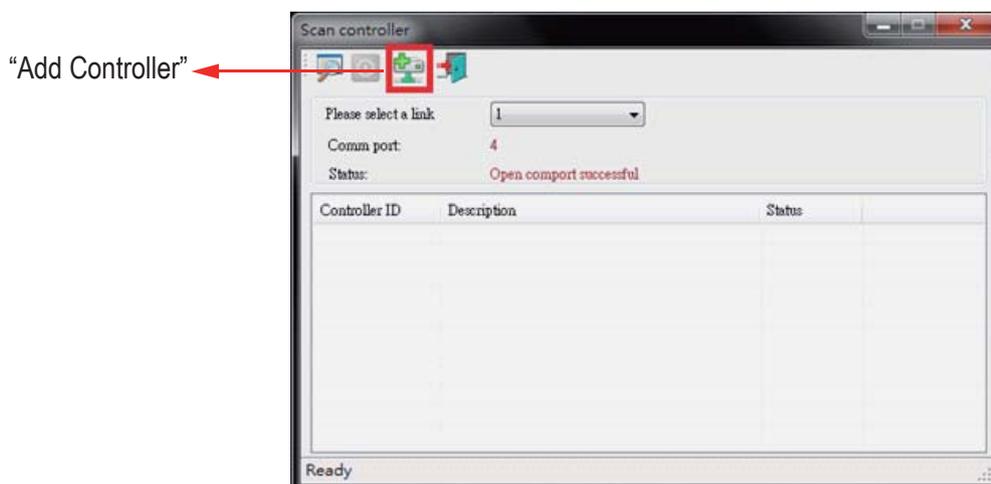


1. Click the “Add New” button to create a new link. Make sure you input a correct COM port number. And then click on “Save” button to show the connection status of the COM port.

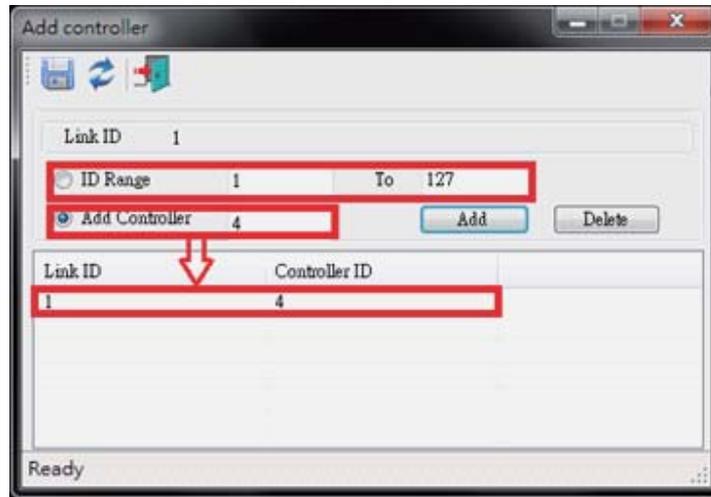




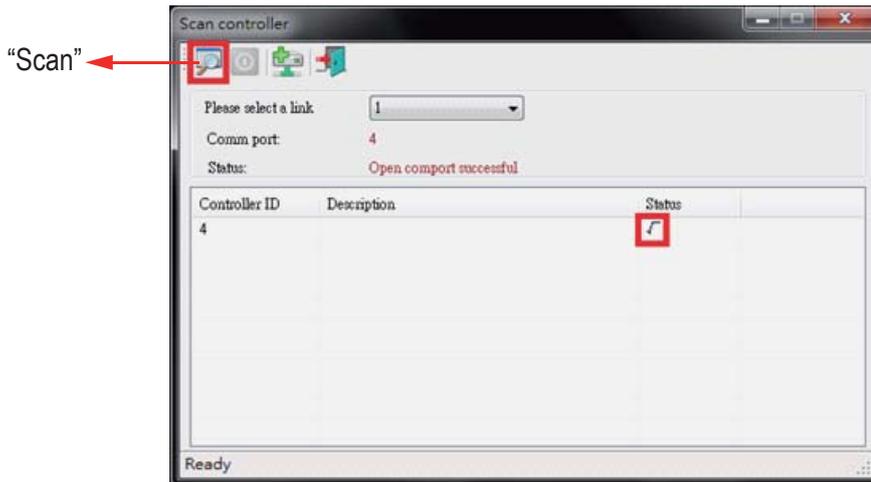
2. Now we setup the link for all the controllers on this link. Then we need to add controllers to this link. Click "Scan" button.



3. Select the link which just created and click “Add Controller” button. (You can add one controller with an ID or multiple controllers within an ID range. For demonstration we add one controller with ID of “1” and click “Save”. If you need to add several controllers, you can use ID range to add them.)



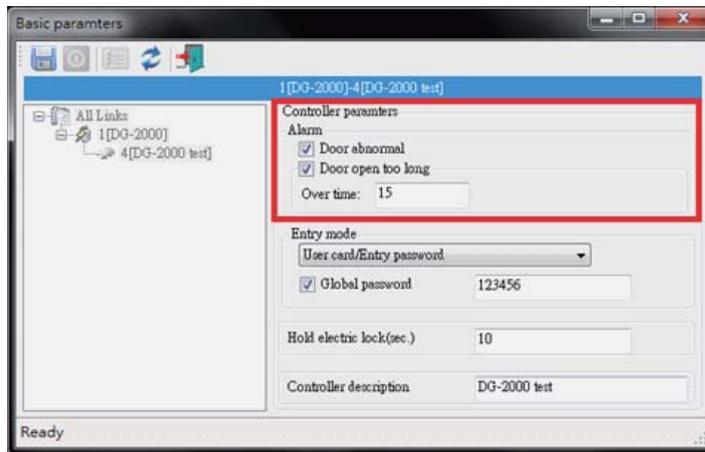
4. Click “Scan” button to check the connection. If the status shows ‘√’, it means the connection is OK.



5. Click the “Parameter” button to set the basic parameters of the controller. Select the controller under the link that was created above and click “Edit” button to edit the parameters.



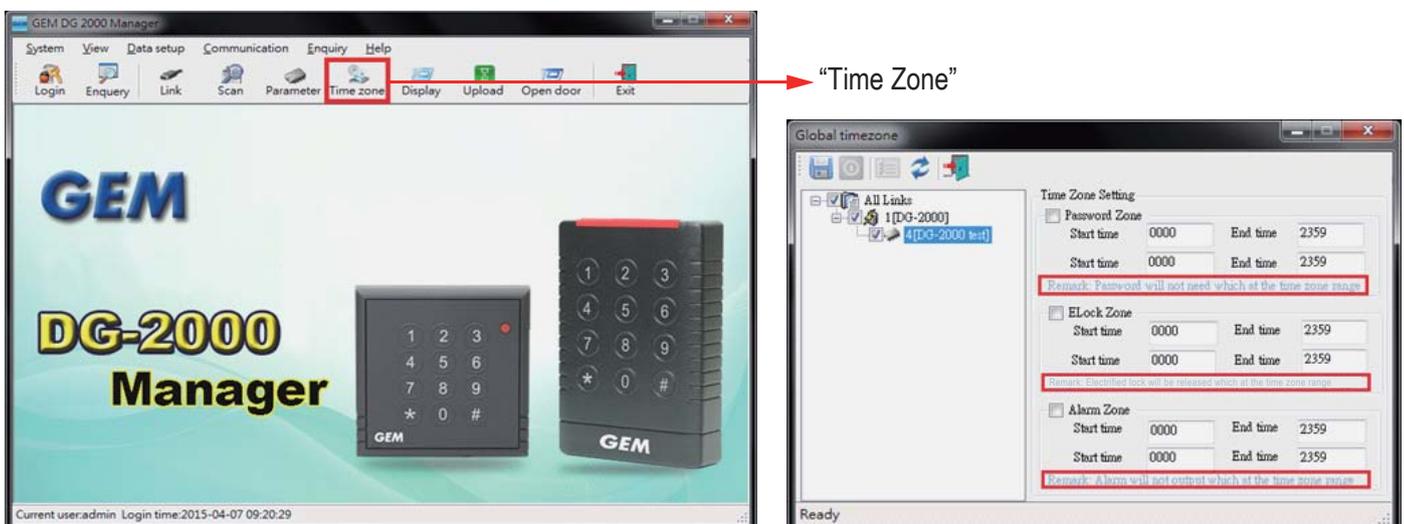
6. Users can enable alarm functions. The timeout for converting door ajar to alarm means if the door still opens for the timeout period after electrified lock release time, the controller will output alarm signal. In the following picture, if the door opens for $10+15=25$ seconds, the controller will output alarm.



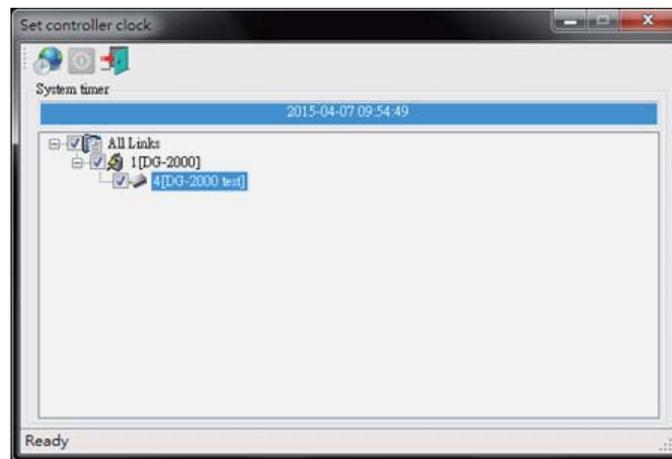
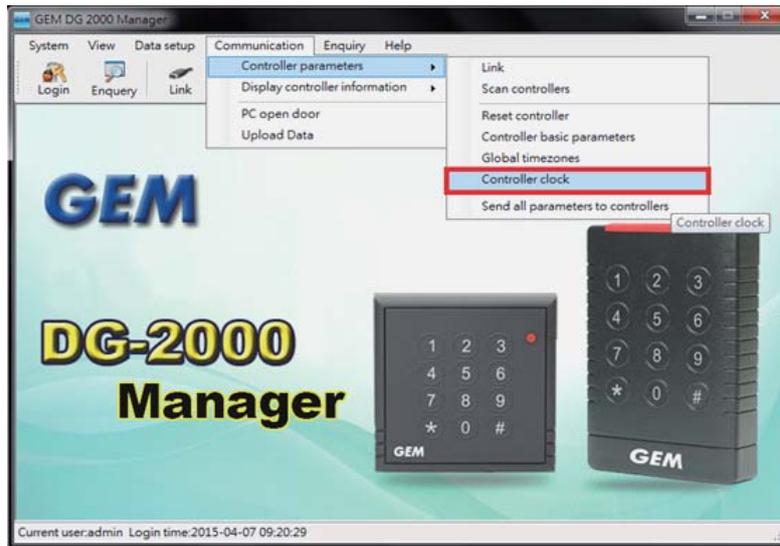
7. For standalone controller, user can choose the entry mode to enter the door. User can also enable a Door common access password for all cardholders.



8. Exit Basic Parameter setting, click "Time zone" button in the main window. For each time zone, there are two time slots for setting. Please pay attention to the notes at the bottom of each block to prevent opposite settings.



9. For refreshing the clock of controllers, find the “Controller Clock” menu as shown in the following picture. Click “Send” button to reset controller’s clock as PC’s clock.



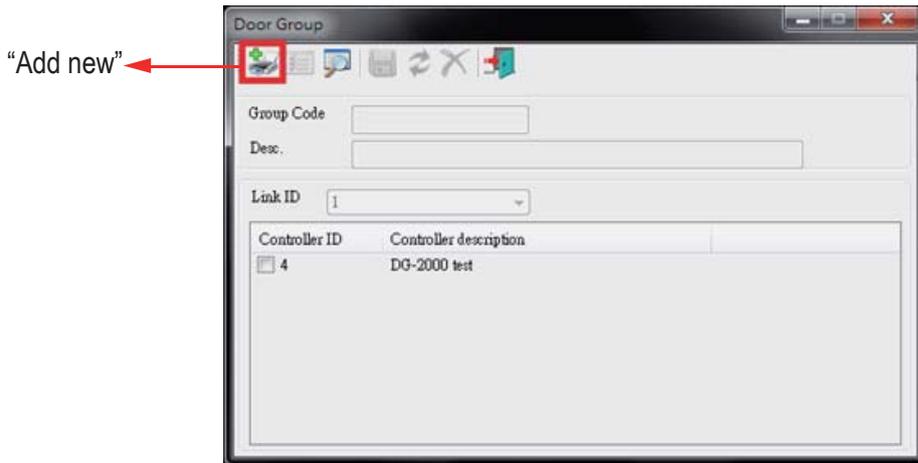
10. User can also reset the controller. The operation is similar as above. Please go to the “Controller → Controller Parameter → Reset Controller” menu.
- To make the parameter settings effective in the controller, user needs to send the parameters to the controller. It will be described in the following sections.

Cardholder Maintenance

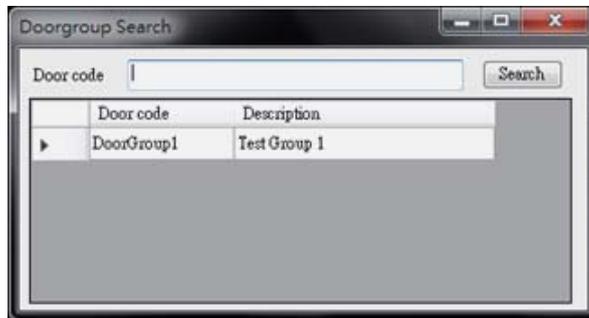
1. For adding new cardholder for the controllers, we first need to define the door group for different controllers. Click the “Door Group” in the menu.



2. Click “Add new” button to create a new door group. Select the controllers you want to make them into the same group. The controllers in the same group shares authorities.



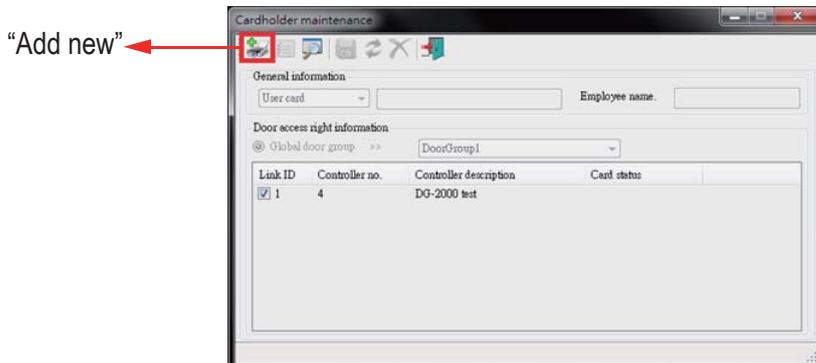
3. After creating the door group, user can click “Search” button to review all the door group information. We have a door group in the list.



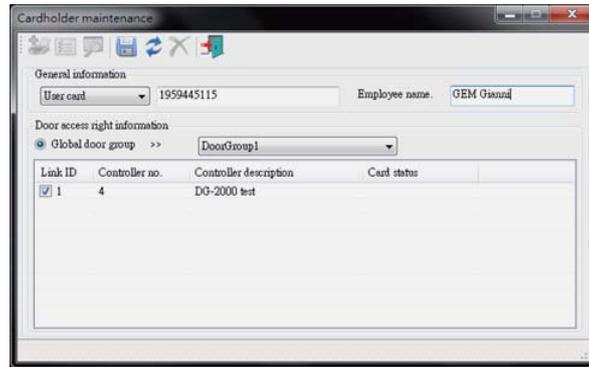
4. Now we can assign cards or passwords for the door groups. Click “Cardholder” in the menu.



5. Click “Add new” button to create a new user card or password.

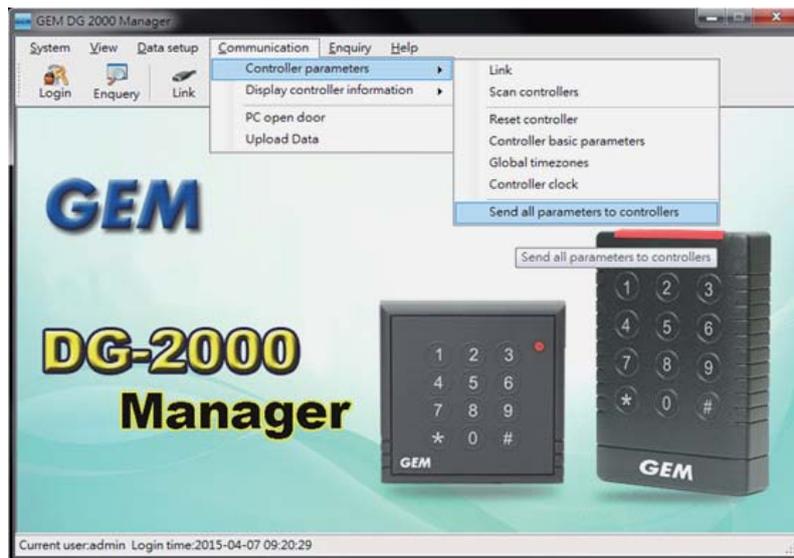


6. Select "User card" or "password" in the drop down list and input the card/password and Employee name information. Click "Save".

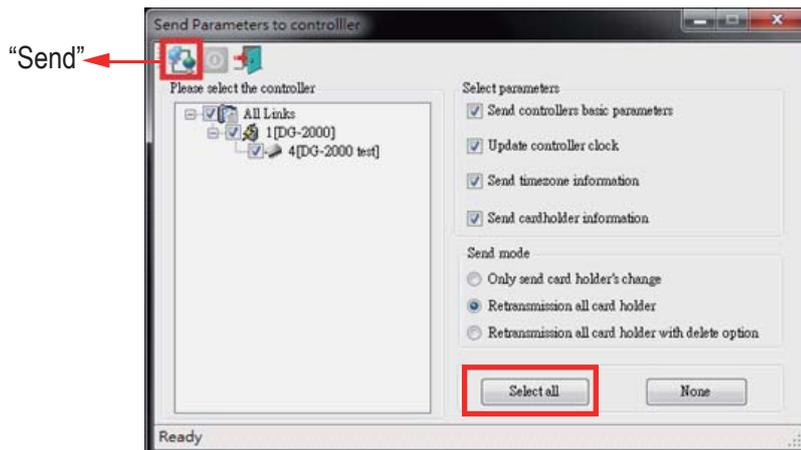


7. After click "Exit" button, GEM DG 2000 Manager System will ask user to send the cardholder information to the controller. Actually the parameter setting also has not been sent to the controller yet. To make all the settings in the GEM DG 2000 Manager System effective in the controller, user needs to send the settings to the controller. Click "Yes" to enter the dialogue.

User can also enter it through menu as shown in the following picture.



8. For "Send Cardholder Information", there are three update modes (Only send new cardholders, Send all cardholders, Send all cardholders and execute delete commands). Choose "Select all" and click "Send" button on the top left to send.

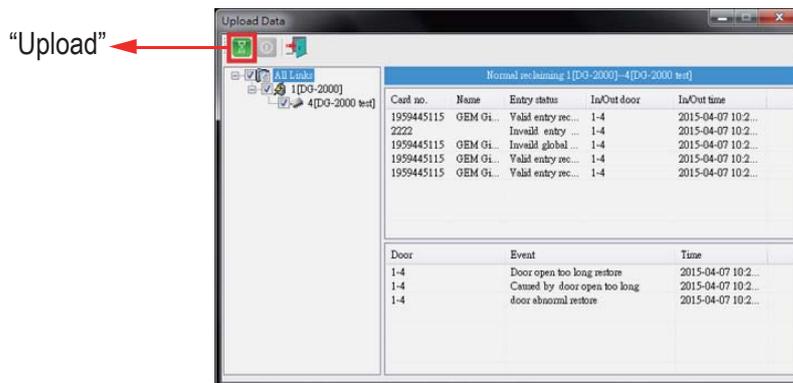


Records Retrieve and Report

1. In daily operation, all the records and alarms are saved in the controller. After the controller is connected, user can upload the records onto the database in PC by clicking "Upload" button.



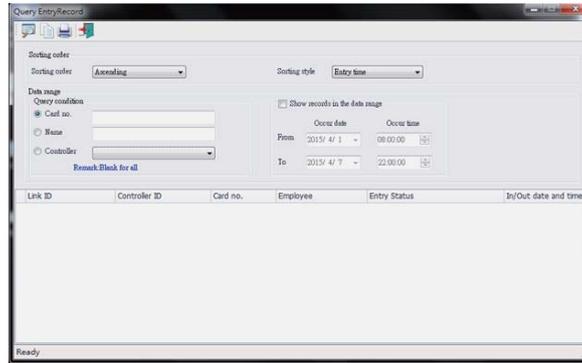
2. Click "Upload" button to retrieve records. After retrieving the records, GEM DG 2000 Manager System can be used to generate reports on records.



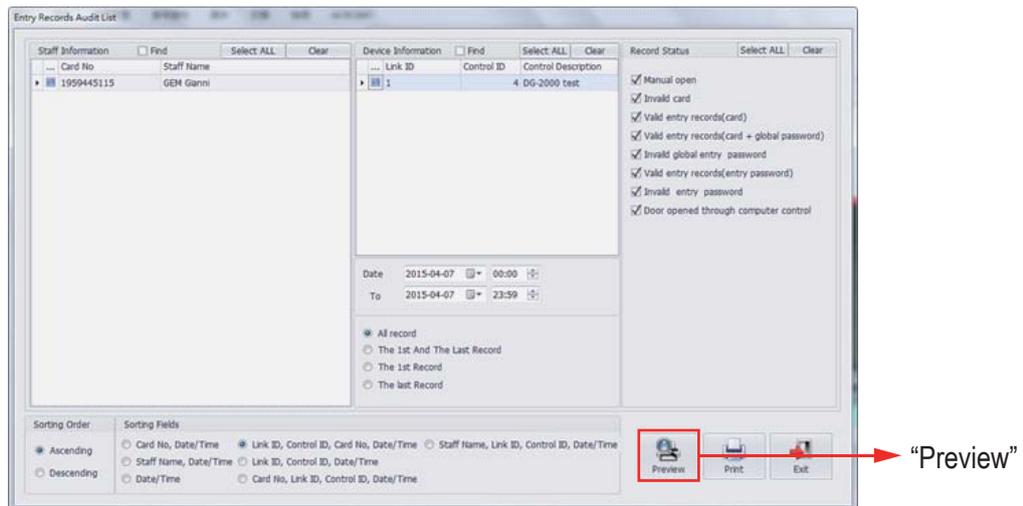
3. There are 4 types of Enquiry methods in the system. "Entry Records Audit Report" and "Alarm and Events Report" are used to query individual records. "Entry Record" and "System alarm event" are used to generate analysis report for records.



4. The following shows typical query results.



5. For generating reports on entry records, click “Entry Records Audit Report” on the menu. User can filter different report types for different purposes like attendance checking or authority checking. Click “Preview” button to generate report.



6. User can click “Export To” to create Excel file for future editing.

