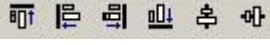


Please read this manual carefully before installation and operation. Keep it properly for future use.

GST-GMC4.1-S/M/L
Graphic Monitor Center
User's Manual

(Ver.1.03, 2024.03)

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Chapter 1 Overview

GST-GMC4.1-S/M/L Graphic Monitor Centre, hereinafter referred to as GMC, is fit for GST-IFP4E, IFP8, 200N serial panels and attached front-end devices. It can communicate between a fire alarm system and control panels. With aesthetical interface and focused graphic messages, the GMC also supports vectorized device icons. It's simple to operate and suitable for different kinds of users.

The main features of this highly intelligent package are:

- ❖ The self-reacting communication module automatically maintains data communication with FACP. The operator can test the communication at any time to ensure the reliable running of system.
- ❖ Multi-level password control.
- ❖ Simple, direct and complete user graphics view interface, switching between device layouts of different monitoring zones.
- ❖ Popup of off-normal information automatically, with devices in alarm, action, fault or disabled condition flashing in different colors.
- ❖ Complete functions of database management and data backup ensure system safety by minimizing possibility of data loss.

Chapter 2 System Requirement

2.1 Hardware

CPU: Pentium III 1G or above

Minimum free Hard disk: 10GB

Memory: 2GB or above

2.2 Software

Windows 7 (IE8.0 or above) , Windows 10 (English version)

2.3 System Configuration

The system covers fire alarm control panels and networks. The local or remote computers connected to this system should not exceed 9.

Chapter 3 Installation

Program name is GstGMC4.1.exe. Double clicking this file can install it based on instructions. This software includes 4 parts as shown in Fig. 3-1.

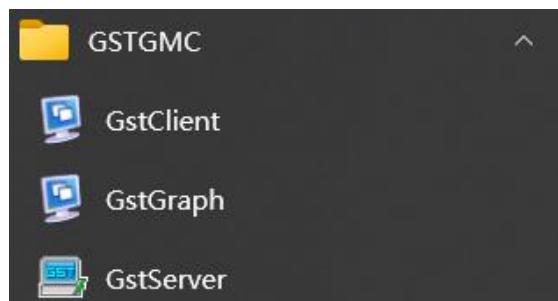


Fig. 3-1

GstGraph is installed on a local computer for displaying the graphic layout.

GstServer is the communication server, installed on the local computer only. This application should be always started.

GstFireClient is the monitor software, installed on all monitor stations (including local computers). The stations will log onto the server under password control. The server configuration requires a Register Code to setup monitor stations.

Chapter 4 GstGraphDef

Graphic Designer is for designing the graphic layout of devices in a system, so that the user can have an idea of the layout of system devices and quickly locate any off-normal event like fire alarm, fault and action. You can use the buttons in the toolbar to setup, modify or delete a project, a zone or a device, and design a graphic plan of the project. The main screen is shown in Fig. 4-1.

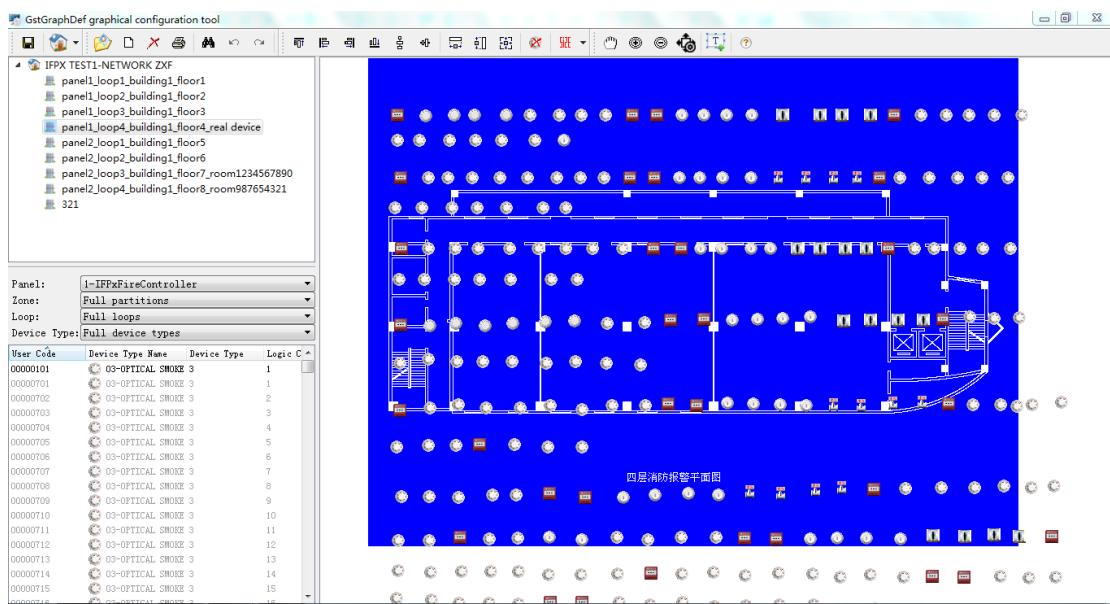


Fig. 4-1

4.1 Project/Zone Operations

The buttons in the “System” section are used for operation on a project or zone.



Fig. 4-2

4.1.1 Opening Existing Projects

If you want to modify an existing project, pressing this icon, a dialogue box for opening file will appear as shown in Fig. 4-3.

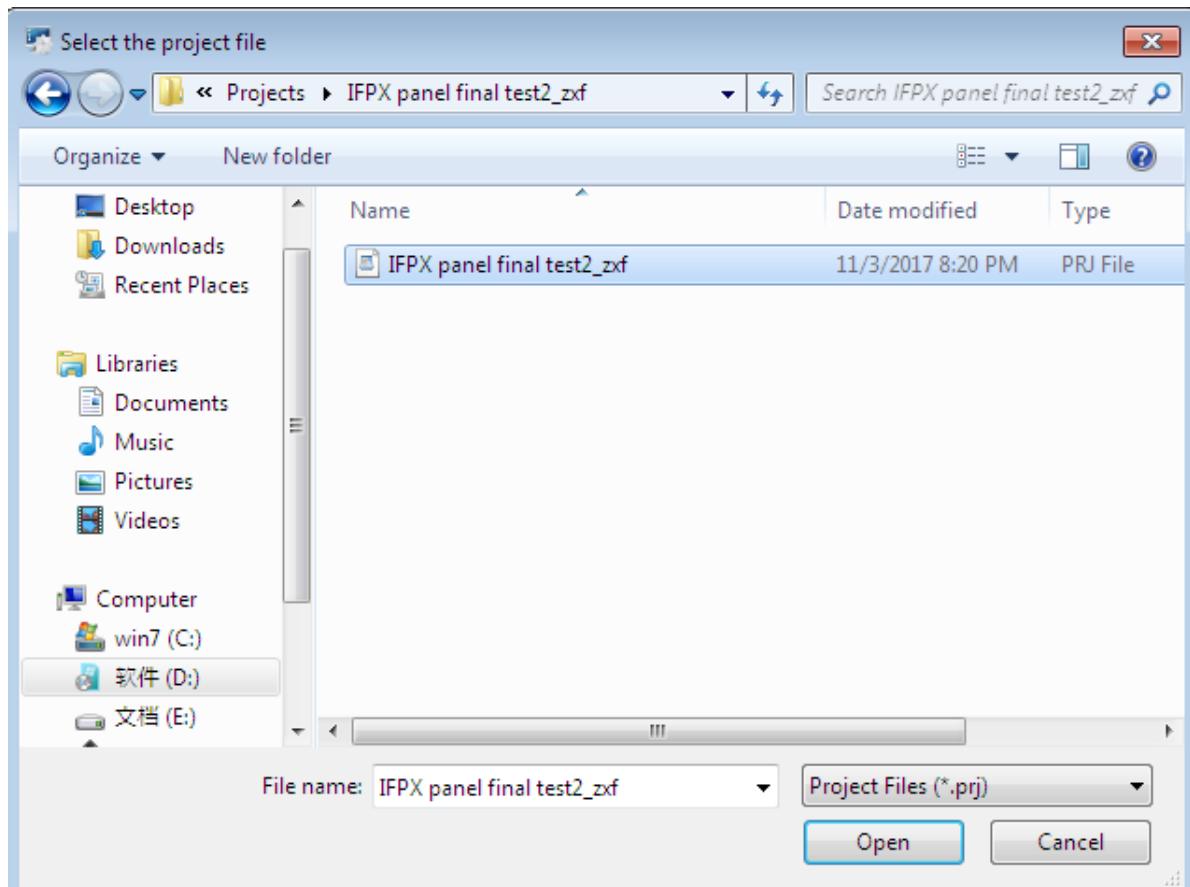


Fig. 4-3

4.1.2 Save

The user can save the modified project at any time.

4.1.3 Issuing the project

The current working database is saved into a separate project folder, named as the <Project name>. The Server can work with only one database, which is saved in <Project\Server> folder. The “Issue” operation will copy all related files including background pictures into the <Project\Server> folder to synchronize the monitor database and definition database.

4.1.4 Deleting Project

Pressing this button will delete data of the selected project.

4.1.5 Creating a zone

You can define the logical layout (by floor or zone) of devices in the system after the project is set up. Pressing the  button, a dialogue box as in Fig. 4-4 for adding a zone will pop up:

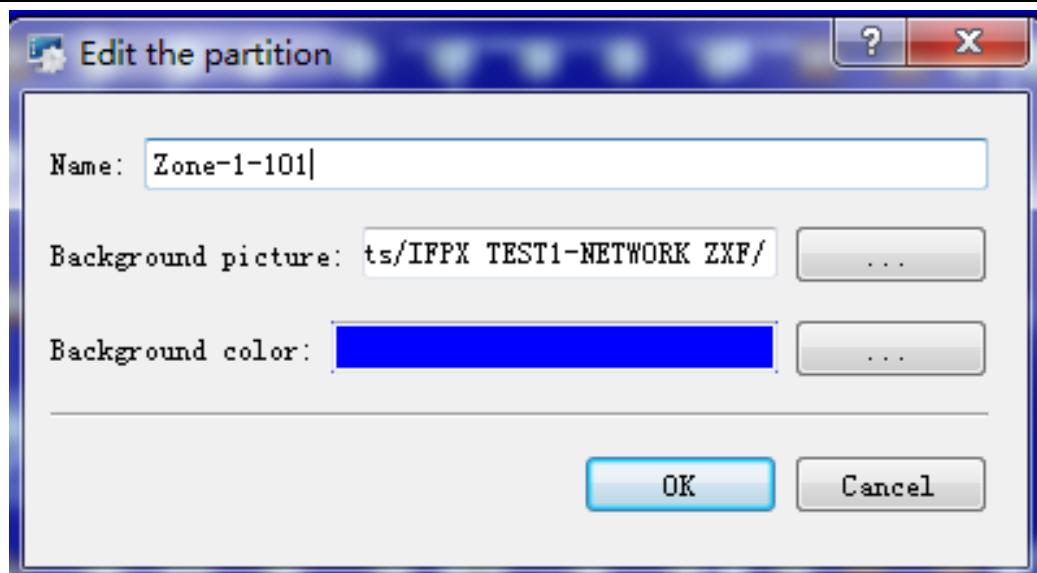


Fig. 4-4

< Name >: Name of the zone.

<Background picture>: The background picture can be any type of popular picture type, normally converted from AutoCAD project drawing. The picture size should fit the screen resolution (Fig. 4-5).

<Background color>: Defining the background color of this zone to make device icon distinguished from the background picture of the project.

In normal monitor status, the GMC will display all pictures of a zone in turn. In case of off-normal events, the front page will show the zone with the off-normal information.

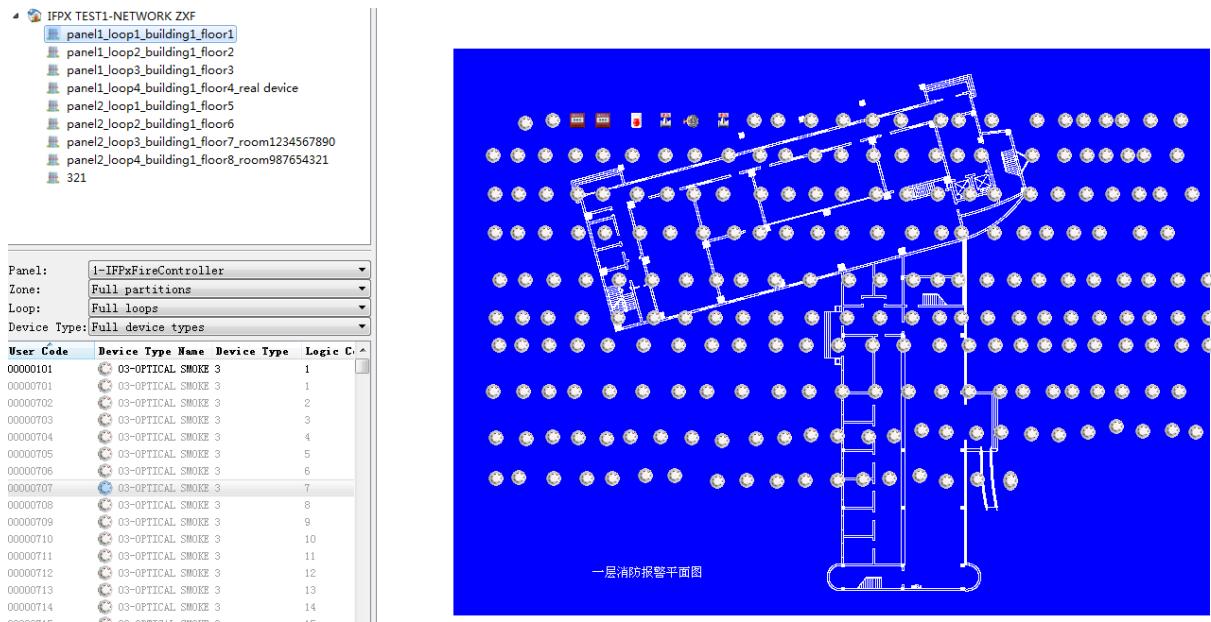


Fig. 4-5

4.1.6 Delete a zone

Pressing this button will delete a selected zone from current project. The devices already set into this zone will return to device list.

4.1.7 Print a zone

The current zone background picture and all devices' icons will be printed out.

4.1.8 Search a device

This is to help finding a device from a big project for modification or replacement. Pressing this button, the system will pop up a dialogue as shown in Fig. 4-6. Entering a 10-digit device number, the system will locate and select the device. If there is duplicated device numbers, you can continue to press "Find" button.

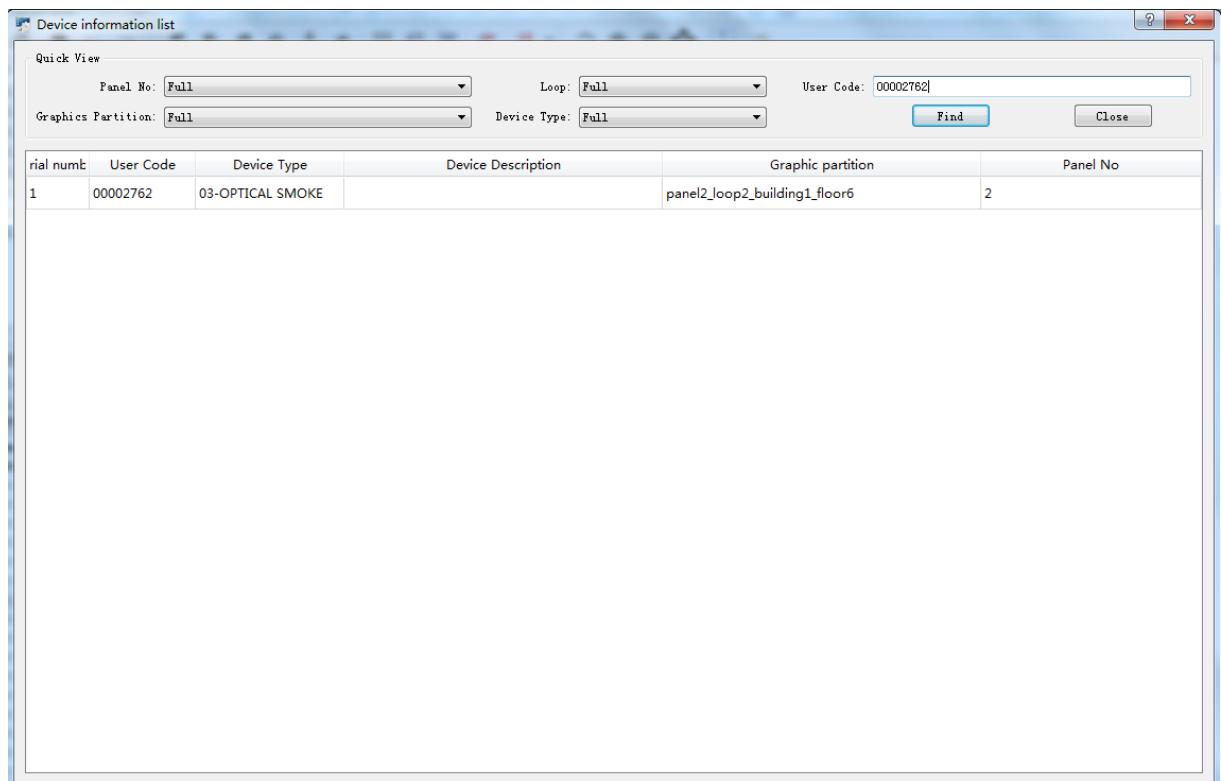


Fig. 4-6

4.2 Device Operation

The buttons are used for operation on a single device.



Fig. 4-7

4.2.1 Device List

By choosing “Panel”, “Loop”, “Zone” and “Device Type” on the left middle part of the main screen of GstGraphDef the left bottom will show all defined devices arranged into the specific loop and zone of a FACP (Fig. 4-8).

Panel:	1-IFPxFireController		
Zone:	000001-NET00#-ZONE001		
Loop:	1		
Device Type:	Full device types		
User Code Device Type Name Device Type Logic Code			
00000101	 03-OPTICAL SMOKE 3		1

Fig. 4-8

After all zones are defined, the user can layout the devices of each zone by simply dragging it from the list on the left to the correct position of the zone, as in Fig. 4-9.

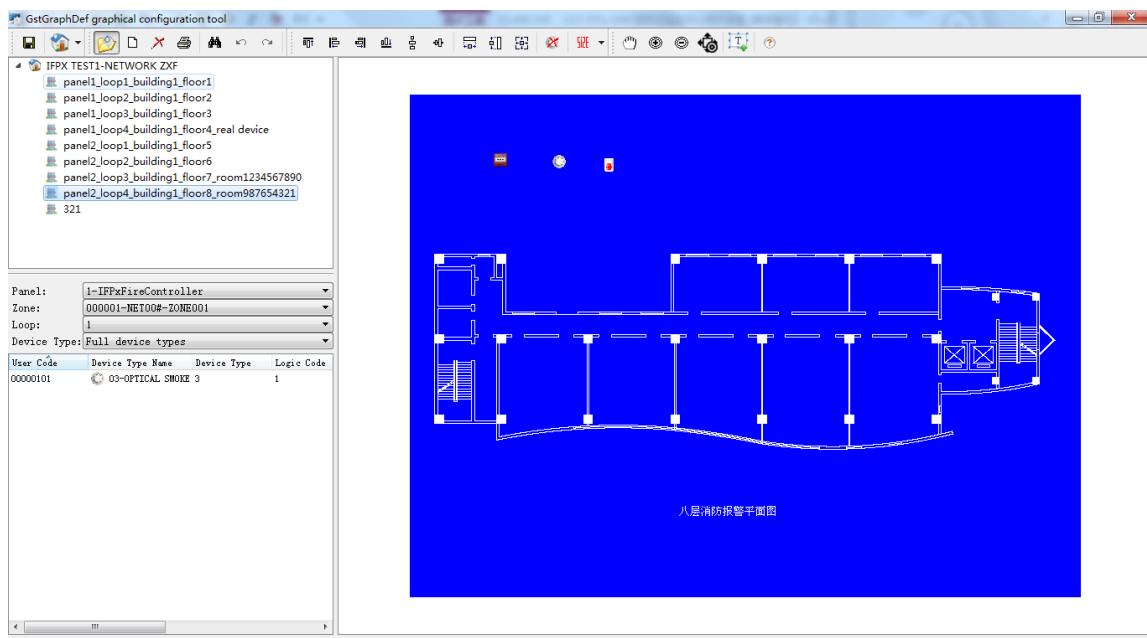


Fig. 4-9

4.2.2 Showing device message

By default, the device information is not shown in the graphic.

Right-click the picture, select <Display device information>. Then anytime the mouse points on a device, the information of the device will be shown (Fig. 4-10, 4-11).

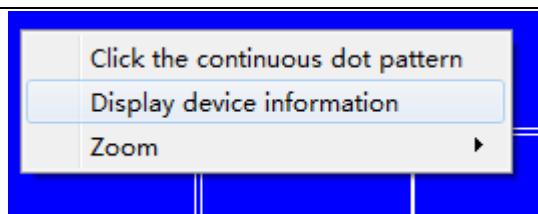


Fig. 4-10



Fig. 4-11

Right-click the background again then can switch off the automatic display.

4.2.3 Device Icon Size

4.2.3.1 Setting the size manually

Drop down the arrow beside <size> button.

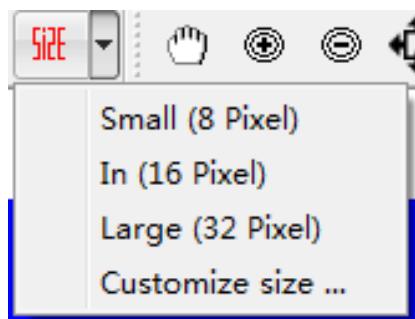


Fig. 4-12

4.2.3.2 Resizing a Group of Devices

Select a group of devices by mouse, either by left-button-draw. Then click on the wanted operation (same width, same height or same width & height) to change all selected devices to the same size.

4.2.4 Align Devices

Manually moved devices do not appear in good alignment normally. These buttons will help to make easy alignment by top, bottom, left, right, central in vertical or middle in horizontal.

4.2.5 Delete a Device

Clicking this button can delete the selected device logo from the current page. The device will be back to the list.

4.3 Picture Operation



Fig. 4-13

Zoom IN, Zoom OUT and moving the background picture to find the correct location.

4.4 Complete Procedure for Graphic Designer

- 1 Define system devices using GstNDef4.1, leaving the project as current working system. Please refer to GstNDef4.1 Defining Tool User's Manual.
- 2 Add new project.
- 3 Add zones.
- 4 Prepare background pictures for each zone.
- 5 Place all devices into correct positions.
- 6 Synchronize the database by “Issue”. **NOTE: The “Issue” operation must be carried out after every modification to the device definition and graphic design.**

Chapter 5 GstServer

5.1 Communicate with Panels

5.1.1 Configuring Ports of Panels

Clicking shortcut of GstServer, the system will pop up a window as shown in Fig. 5-1.

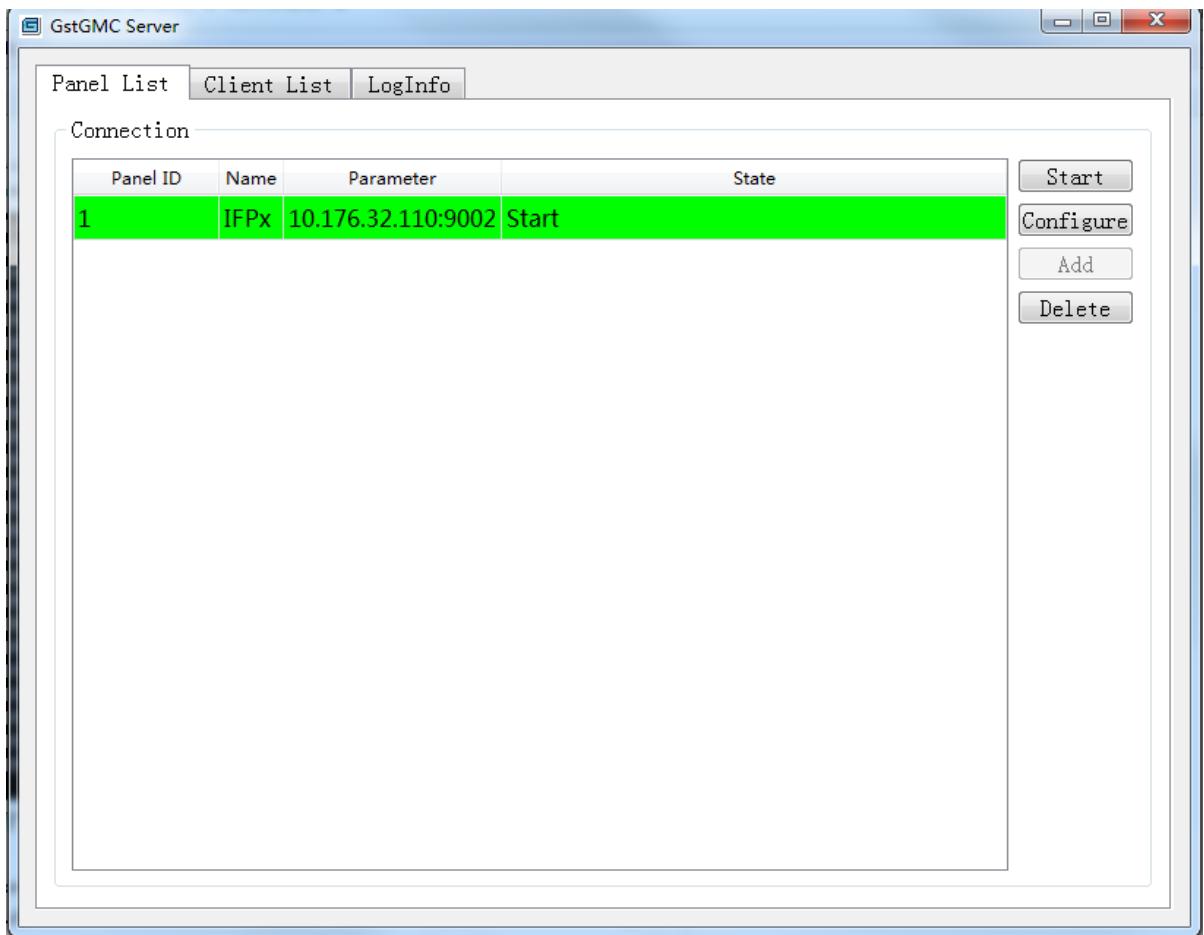


Fig. 5-1

Note: The server can't be operated normally if there isn't the authorized dongle.
Editing in GstServer needs a password which is "gst".

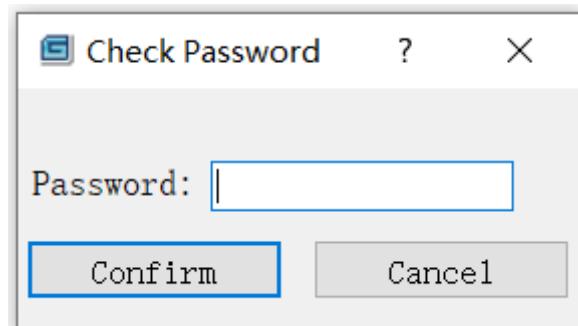


Fig. 5-2

5.1.2 Add Messages of a Panel

Clicking "Add" pops up a dialogue as shown in Fig. 5-3.

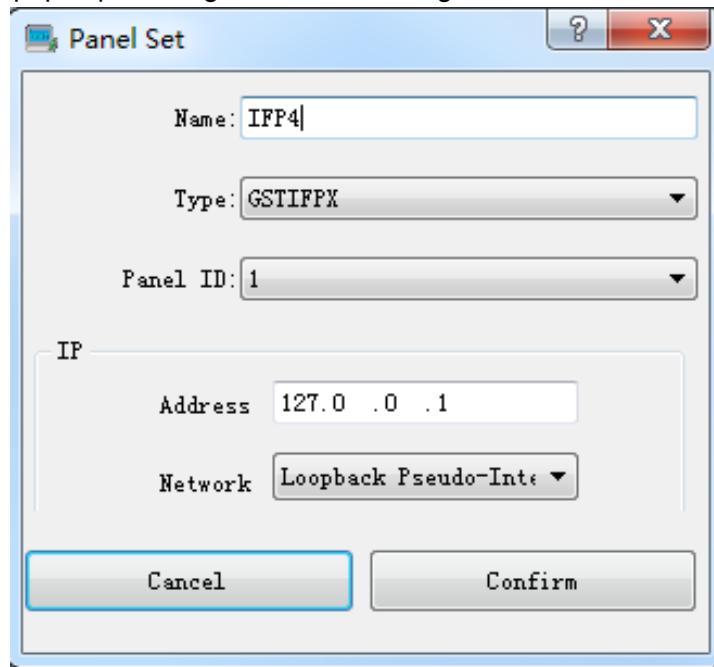


Fig. 5-3

The parameters should be set correctly.

- Panel: Users enter the name of a control panel per actual situation.
- Type: Users enter the type of a control panel per actual situation.
- Panel ID: ID of a control panel.
- Address: IP number of a control panel, parameter for FACP communication.
- Network: Selecting local network card

5.1.3 Add Messages of a Panel

Pressing "Configure" after choosing a panel's message, the window above will pop up for editing per reality.

5.1.4 Delete Messages of a Panel

Pressing "Delete" after choosing a panel's message, enter the password to delete it.

5.2 Network Communication

It is used to configure clients for GstServer, including name of clients, password and login.

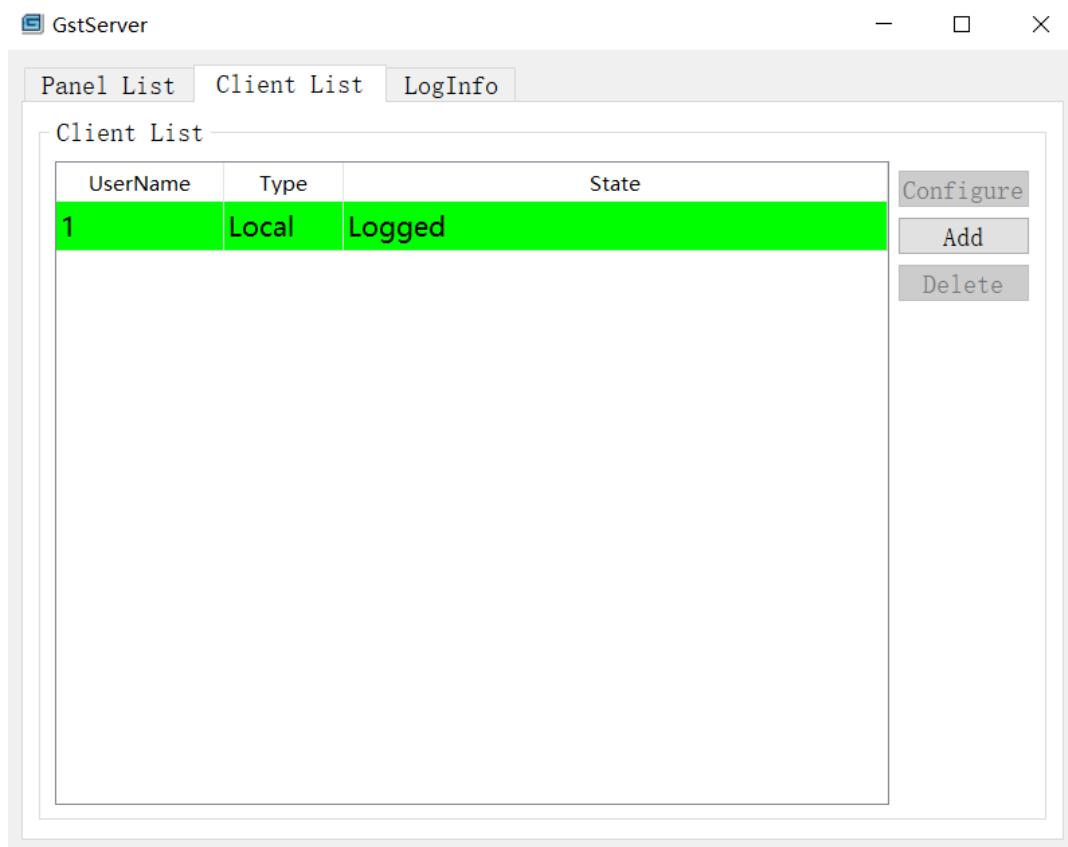


Fig.5-4

5.2.1 Add Monitor Clients

Clicking <Add> will pop up a dialogue box as in the following figure after successfully verifying client. Maximum 10 clients can be added.

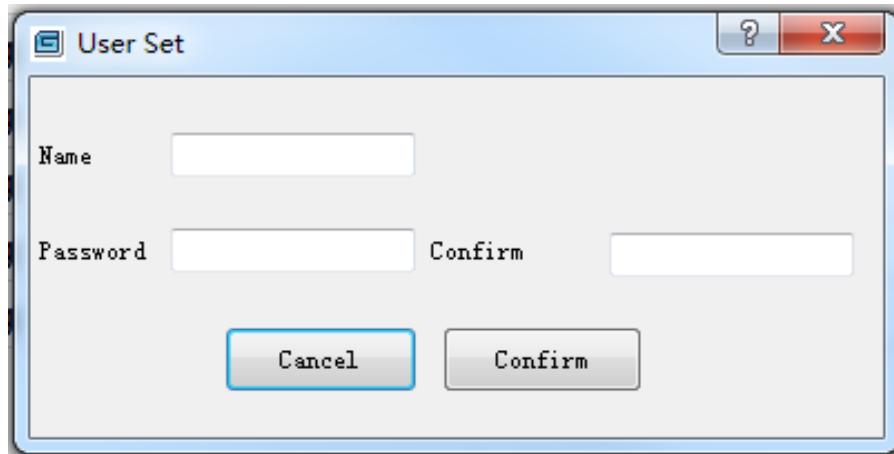


Fig. 5-5

- Name : User name when login the client end.
- Password: password for users to login.
- Confirm: confirm the password.

5.2.2 Modify Monitor Client

Clicking “Configure”, a dialogue box will pop up for modifying per reality. After that, clicking “OK” can finish modification.

5.2.3 Delete Monitor Client

Clicking <Delete> on a client can delete it.

5.2.4 System Running Log

The server records communications with control panels and client end. Refer to Fig. 5-6.

- ClearList: Clear the contents displayed on the list.
- Level: Display the authority of the dongle.

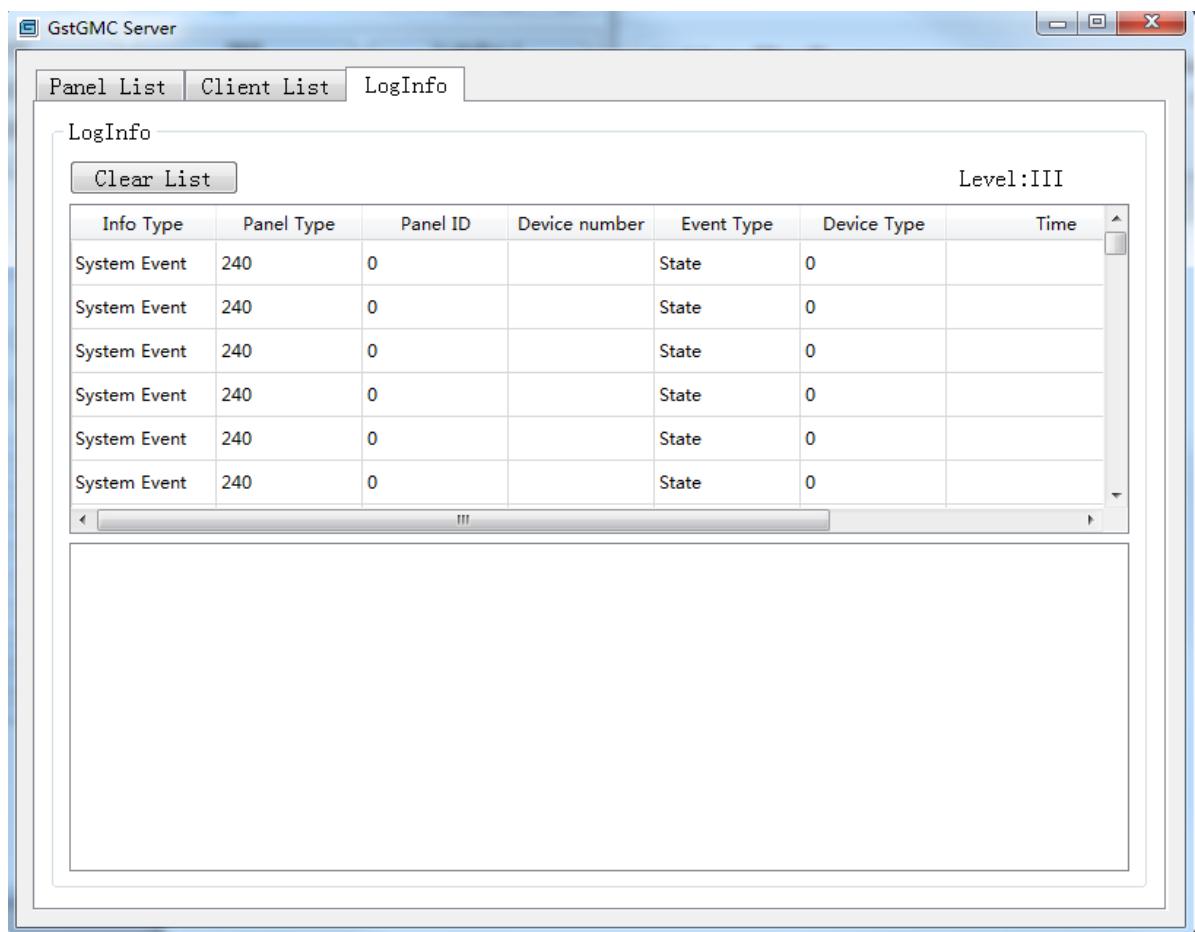


Fig. 5-6

Chapter 6 GMC Graphic Monitor Center

6.1 Overview

GMC is for designing the graphic layout of devices in a system, so that the user can have an idea of the layout of system devices and quickly locate any off-normal event like fire alarm, fault and action. You can use the buttons in the toolbar to setup, modify or delete a project, a zone or a device, and design a graphic plan of the project. The main screen of the GMC is shown in Fig. 6-1.

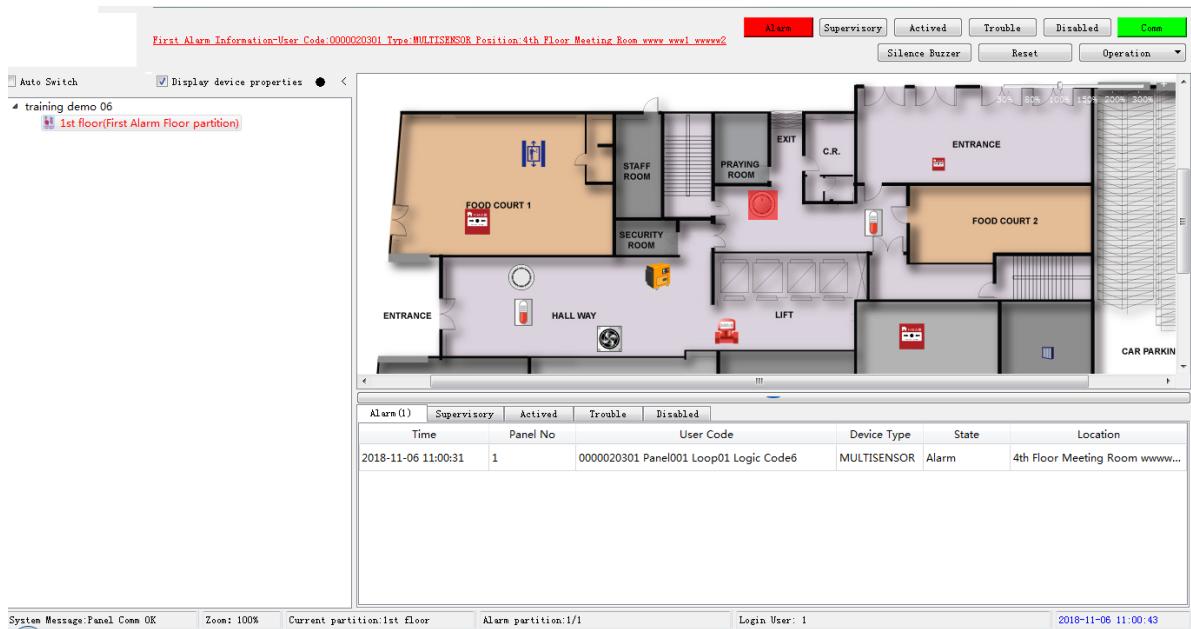


Fig. 6-1

6.2 Display on the Client

6.2.1 Auto/Manual Mode for Viewing Zones

The client automatically switch zones every 5 seconds. Ticking off the “Auto Switch” option, you can view the zone layouts manually. Refer to Fig. 6-2.

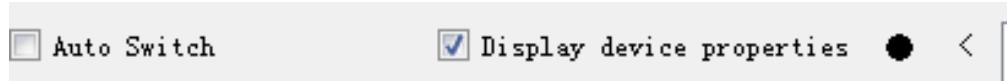


Fig. 6-2

6.2.2 Search Devices

Right clicking and entering 8-bit device code can search the device and see if it exists on the current monitor page.

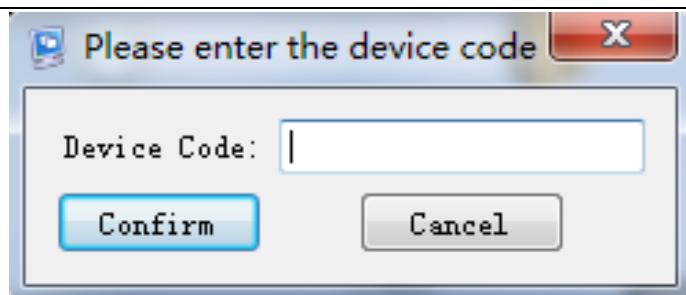


Fig. 6-3

6.2.3 Zoom in/out

As there are many devices on the layout, users can make the layout larger through Zoom. In this way, overlapping devices can be spotted and rearranged easily. The physical positions of devices on the layout can't be changed as it is zoom in or out. Refer to Fig. 6-4.



Fig.6-4

6.2.4 Fast Display Device Messages

Moving your mouse to a certain device, the system will display specific messages of this device so that users can have an idea of what's all about. Refer to Fig. 6-5.

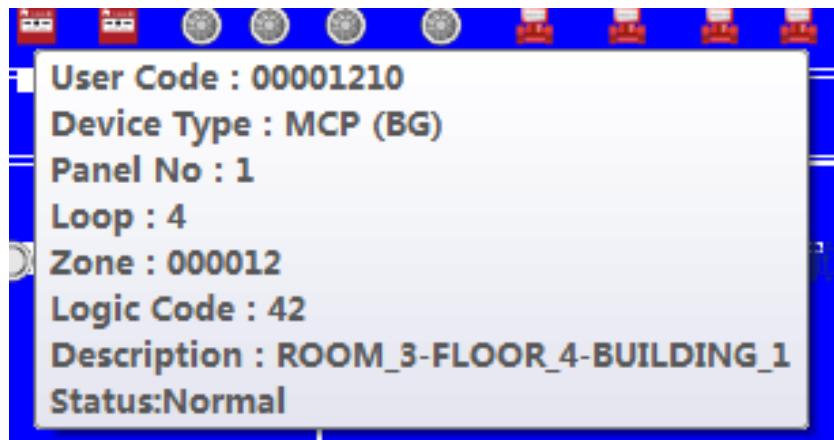


Fig. 6-5

6.2.5 Mute

Pressing this button can close the alarm sounds of the GMC and make the GMC be quiet.

6.2.6 Reset

Reset status of all devices in the GMC, including faults of main and battery powers. The FACP is also reset.

6.2.7 System Operation

Clicking Operation can access a drop down list as shown below.

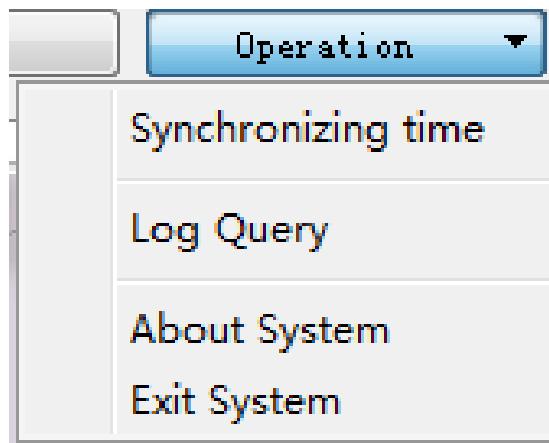
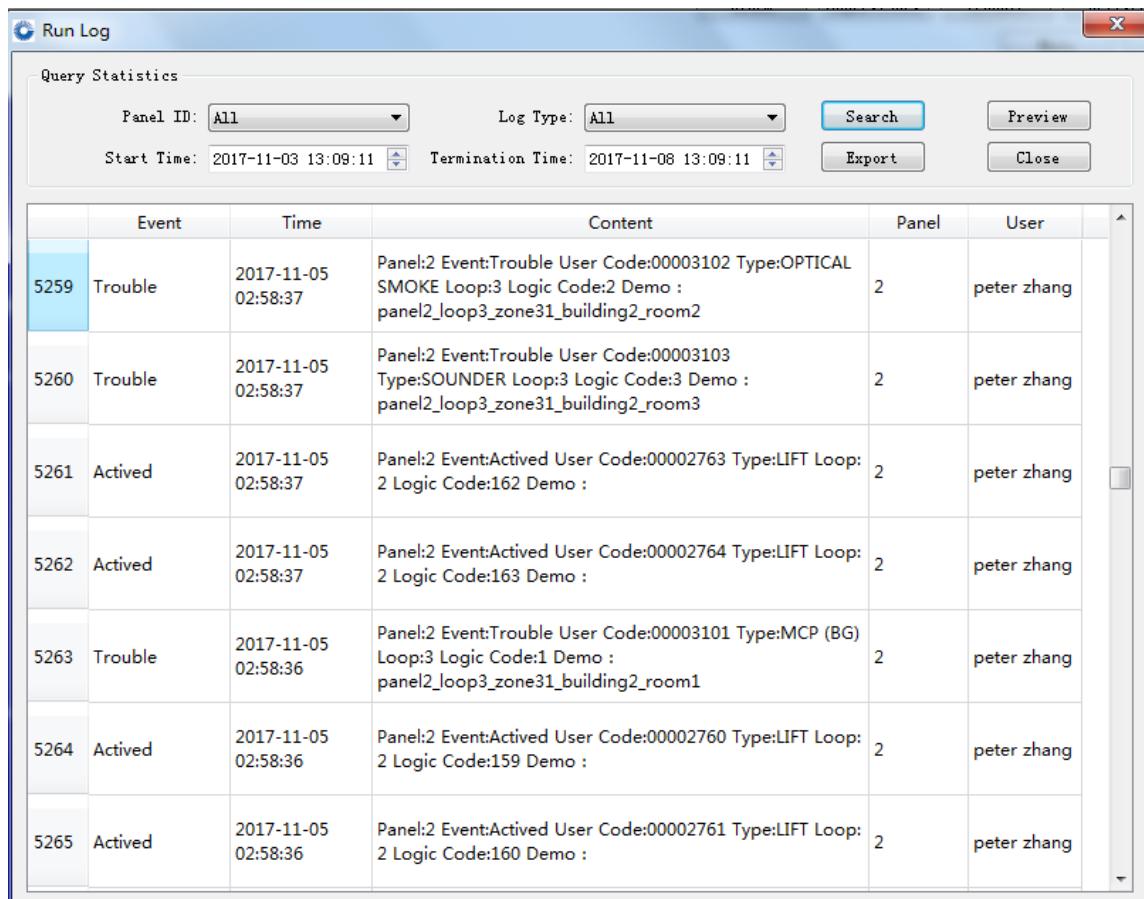


Fig. 6-6

6.2.8 Log Query

Log can be viewed by clicking <Log Query>. Choosing Panel ID, Log Type, Start Time and End time and then clicking <Search> can view those information which can be previewed and printed.



Query Statistics					
Panel ID:	All	Log Type:	All	Search	Preview
Start Time:	2017-11-03 13:09:11	Termination Time:	2017-11-08 13:09:11	Export	Close
5259	Trouble	2017-11-05 02:58:37	Panel:2 Event:Trouble User Code:00003102 Type:OPTICAL SMOKE Loop:3 Logic Code:2 Demo : panel2_loop3_zone31_building2_room2	2	peter zhang
5260	Trouble	2017-11-05 02:58:37	Panel:2 Event:Trouble User Code:00003103 Type:SOUNDER Loop:3 Logic Code:3 Demo : panel2_loop3_zone31_building2_room3	2	peter zhang
5261	Actived	2017-11-05 02:58:37	Panel:2 Event:Actived User Code:00002763 Type:LIFT Loop:2 Logic Code:162 Demo :	2	peter zhang
5262	Actived	2017-11-05 02:58:37	Panel:2 Event:Actived User Code:00002764 Type:LIFT Loop:2 Logic Code:163 Demo :	2	peter zhang
5263	Trouble	2017-11-05 02:58:36	Panel:2 Event:Trouble User Code:00003101 Type:MCP (BG) Loop:3 Logic Code:1 Demo : panel2_loop3_zone31_building2_room1	2	peter zhang
5264	Actived	2017-11-05 02:58:36	Panel:2 Event:Actived User Code:00002760 Type:LIFT Loop:2 Logic Code:159 Demo :	2	peter zhang
5265	Actived	2017-11-05 02:58:36	Panel:2 Event:Actived User Code:00002761 Type:LIFT Loop:2 Logic Code:160 Demo :	2	peter zhang

Fig. 6-7

6.2.9 Panel Setup

Right clicking on a device at the picture, it can be started, stopped, disabled, enabled

and so on. At the same time, the corresponding command is sent to the control panel.

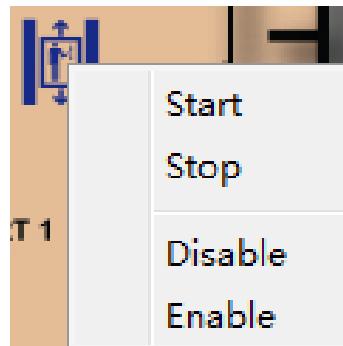


Fig. 6-8

6.2.10 Synchronizing time

The networked control panel has the same time as that of the computer. That is, time on the control panel can be modified per the computer. The computer will automatically synchronize the networked control panel on the hour.

6.2.11 Exit

Clicking **x** on the right corner, then enter user name and password, the GMC can be closed.

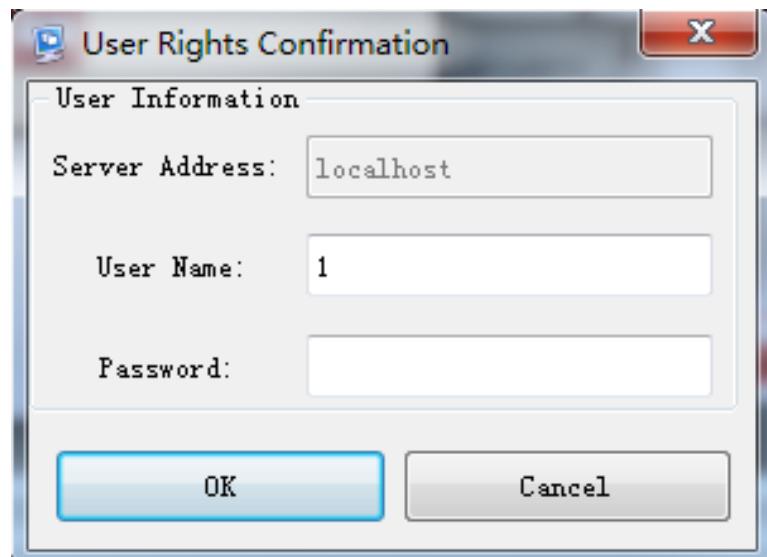


Fig. 6-9

6.2.12 About System

Clicking <About System> displays the name and the version of this system.

6.2.13 Display Abnormal Information

The related icons turn colors when there is an alarm, action, feedback, supervisory, disabled, fault message. There are also other modes for displaying those abnormal information and the system can locate those information.

Mode 1: Those buttons on the upper right corner can display with different colors when an abnormal event happens. Refer to Fig. 6-10. Users can click them to see what's going on.



Fig. 6-10

Mode 2: On the bottom, there are windows for displaying different abnormal messages if there are abnormal. Refer to Fig. 6-11.

Alarm(4)	Supervisory(1)	Trouble(2)	Actived(1)	Disabled
Time	Panel No	User Code	Device Type	Location
2017-11-07 15:06:58	1	00001501 Panel001 Loop04 Logic Code129	MCP (BG)	ROOM_9-FLOOR_4-BUILDING_1
2017-11-07 15:06:58	1	00001510 Panel001 Loop04 Logic Code138	MCP (BG)	ROOM_9-FLOOR_4-BUILDING_1
2017-11-07 15:06:58	1	00001511 Panel001 Loop04 Logic Code139	MCP (BG)	ROOM_9-FLOOR_4-BUILDING_1
2017-11-07 15:06:58	1	00001821 Panel001 Loop04 Logic Code233	MCP (BG)	ROOM_14-FLOOR_4-BUILDING_1

Fig. 6-11

Mode 3: The first fire alarm is displayed obviously. Refer to Fig. 6-12. Clicking this message, the device with the first alarm can be located.

[First Alarm Information-User Code:00001501 Type:MCP \(BG\) Position:ROOM_9-FLOOR_4-BUILDING_1](#)

Fig. 6-12

Chapter 7 Caution

- ✧ The software (server and clients) should be running at all time, to make safety fire alarm monitoring.
- ✧ The computer cannot enter sleep mode on running.
- ✧ The copyright of this software is reserved by the manufacturer, and protected by law. Any copy or modification without the permission of the manufacturer is prohibited.
- ✧ For integrating software developing, please contact with the technical support.
- ✧ This user guide may be updated according to product upgrading without notification!



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