Essence SECURITY

EverGuard Control Panel

User Guide

ES7000EG

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Part of the **Essence Group**

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1 Overview

The ES7000EG is a two-way, wireless control panel unit comprising the main element of the EverGuard Control Panel security system. This unit receives Radio Frequency (RF) signals from a full array of sensors and detectors, remote access devices and interface devices, such as a key fob and key pad. It also transmits bidirectional RF signals to these units providing supervision, re-configuration, control and more.

The control panel has RF and GSM jamming detection and reporting feature, making it very hard to be tampered or hacked.

This user guide provides detailed information on installing, configuring and operation of the ES7000EG security system.

For information on the initial setup of the ES7000EG Security System, defining the peripherals and setting the initial parameters, refer to the *Atlas Mobile* section 3.3.1 below.

For information on modifying and updating the ES7000EG Control Panel parameters, refer to the *ESI-CMS* section 3.3.2 below2.

2 Installation

2.1 ES7000EG Wall Mount

The ES7000EG can be mounted on a wall using the wall mount provided. In addition, you must verify that there is adequate reception from the key pad (ES700KPD) to the ES7000EG control panel and vice versa.

Note: The distance between the ES7000EG control panel and the peripheral devices can be a maximum of 700 meters (2296 feet) (Open Air Nominal) if there are no obstacles. The range can be augmented using the ES700SOIR Repeater. (For more information on the ES700SIOR, refer to the *ES700SIOR User Guide*.)

Mounting the ES700KPD requires the following components:

- Drill with appropriate bit
- Four (4) DIN 7982 cross recessed countersunk head tapping screws (4.2 x 40 mm) (not provided)
- Standard appropriate screwdriver

➲ To select a mounting location:

1. Find a suitable wall location:
   - Select a suitable location that is not too obvious, a secret or hidden location that is not close to entry points, such as doors and windows.
   - The control panel must be located in an area that has good GSM signal reception.
   - The control panel must be installed with a minimal distance of 20 cm (0.66 ft) from users and nearby persons and must not be co-located or operating in conjunction with any other antenna or transmitter.
   - The minimal installation height from the floor must be 70 cm (2.3 ft), and at least 50 cm (1.65 ft) below the ceiling.
   - The control panel should be installed in a centric location, which means centered between all the rooms and all the floors in the building.
   - The control panel should not be installed near:
     - High current electric appliances such refrigerators, washing machines, electric or fuse boxes, etc.
     - Appliances such as cordless phones, TVs, which could cause interference.
     - Heat sources such as stoves, radiators, or fireplaces, etc.
     - In any kind of metal enclosures like a metal cabinets or lockers.
2. Only after all the RF devices have been installed and tested, should the installer mount the panel.

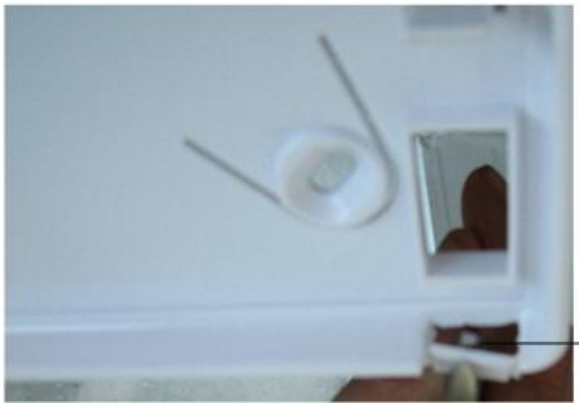
- In order to use the DVK RF test tool, the control panel location should be selected first. The installer can then use the DVK tool to select the location for all other devices.

➲ To mount the ES7000EG control panel:

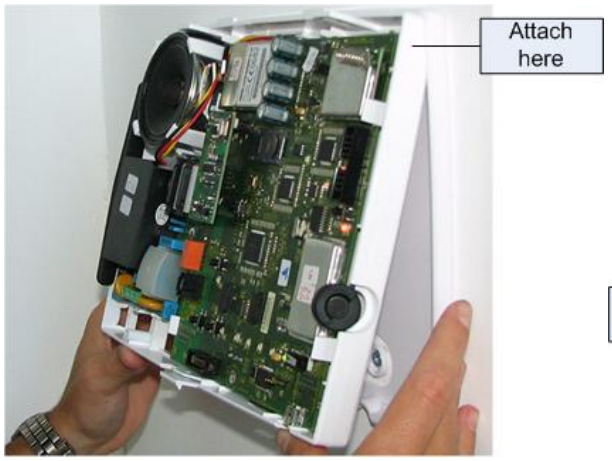
1. Identify a suitable location for the ES7000EG control panel according to the guidelines above.
2. Remove the wall mount component from the ES7000EG control panel.
3. Place and hold the wall mount component on the desired mounting location. Mark the desired drilling locations, using the four holes as shown below.

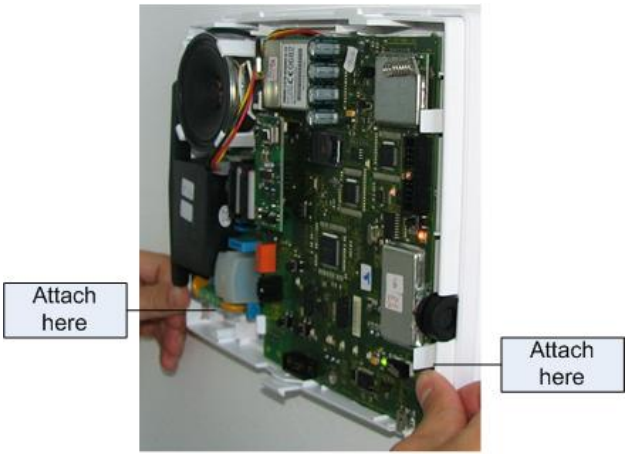
4. Using a drill with the appropriate drill bit, drill at the marked drilling locations.
5. Using the appropriate screwdriver, insert the four screws into the appropriate locations on the wall mount component and secure them.

6. To open the ES7000EG control panel, use a large coin. Insert the coin into the depression on the lower side of the panel. Twist the coin and the cover separates from the main body.
7. On the ES7000EG control panel main body, create an opening for the power cable by removing the punch-out according to the figure below.

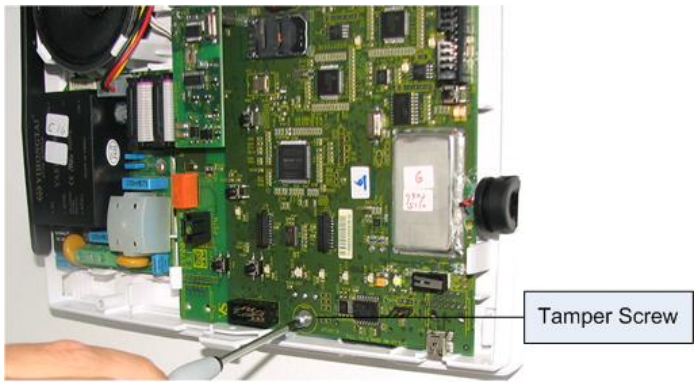


8. Attach the ES7000EG control panel to the wall mount, top first, then bottom as shown in the figures below. ES7000EG control panel snaps into the provided clips.





9. Using the appropriate screwdriver, insert the tamper screw and secure it in place as shown in the figure below.



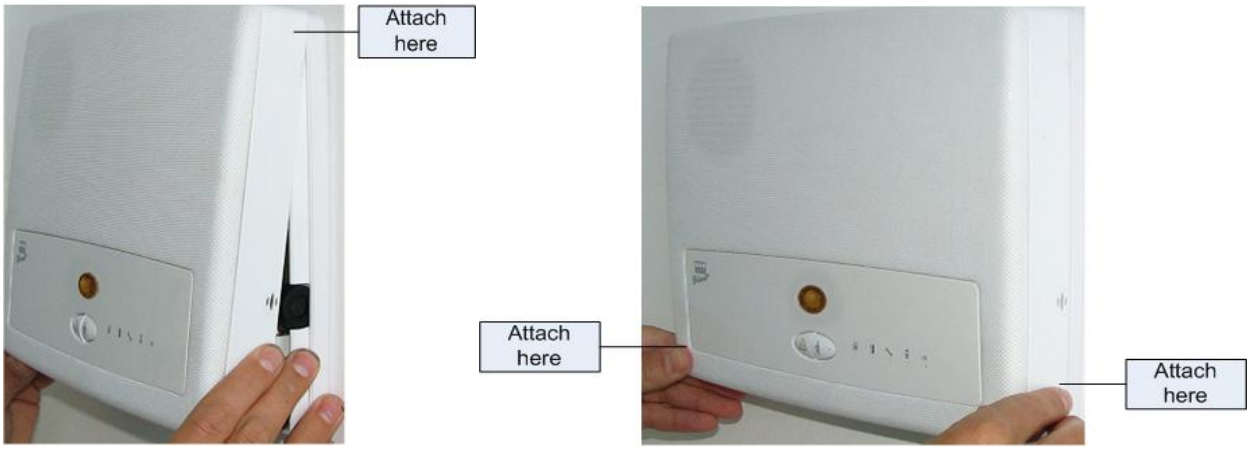
WARNING! 220V Hazard! Make sure AC cable is disconnected before applying the following sections

10. Measure distance end-to-end of power cable from the ES7000EG control panel to the power source to ascertain that it is of sufficient length.
11. Insert the power cable through the punch-out opening and secure the wires to the terminal block connectors as shown in the figure below.
    - Connect the ground wire to the middle terminal block connector.
    - Connect the Live and neutral wires to the first and third terminal block connectors.

12. If the system configuration requires wireless communication, attach the GSM/GPRS modem and antenna according to the

GSM/GPRS Modem Installation instructions in section 2.2 below

13. Attach the top cover, top first, then, bottom as shown in the figure below.



14. Connect the other end of the power cable to a plug.
15. Insert the plug into the designated power socket. The wall mount and installation are complete.

2.2 GSM/GPRS Modem Installation

The GSM/GPRS modem and antenna must be installed inside the ES7000EG control panel for wireless communication. The mounting screws are supplied with the modem kit.

Note: Be sure to follow the installation instructions closely so that the antenna does not get disconnected.

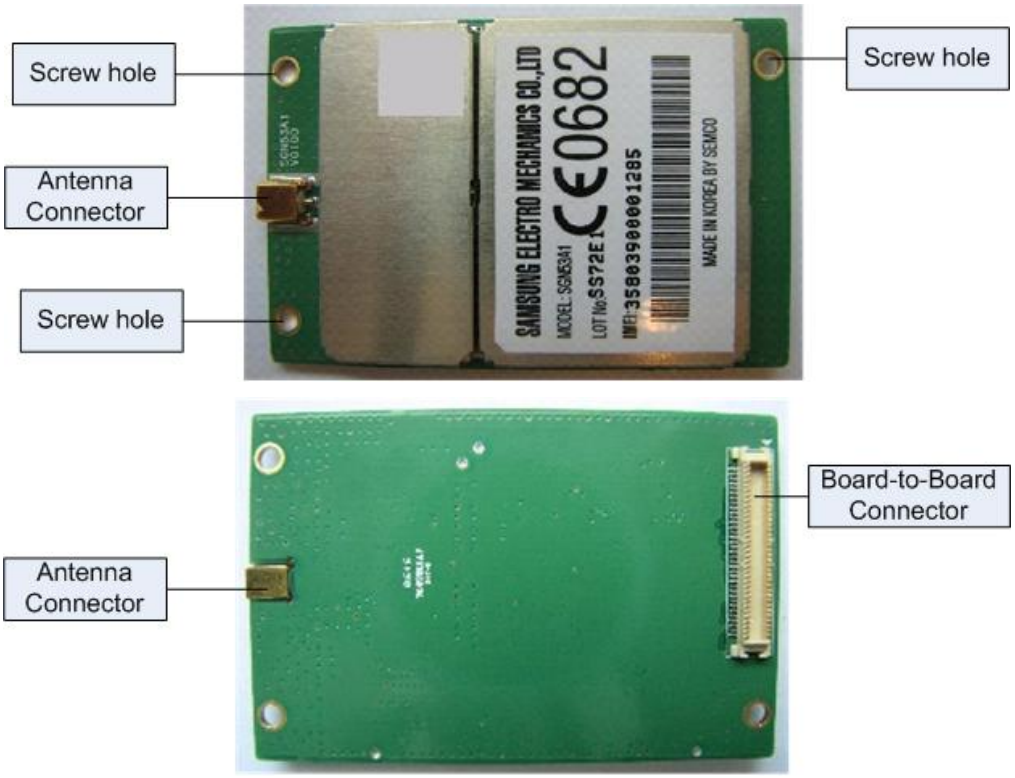
2.2.1 GSM/GPRS Modem Components

The GSM/GPRS Modem components are comprised of:

- GSM/GPRS modem
- Antenna
- Coaxial cable

2.2.1.1 GSM/GPRS Modem

The figures below display the top and bottom view of the GSM/GPRS Modem.



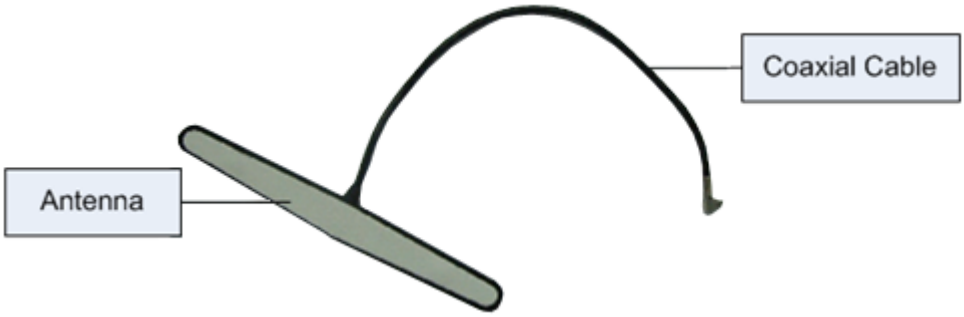
The GSM/GPRS modem is comprised of:

- Three screw holes

- Antenna Connector
- Board-to-Board Connector (back view only)

2.2.1.2 Antenna and Coaxial Cable

The figure below displays the Antenna and Coaxial Cable.



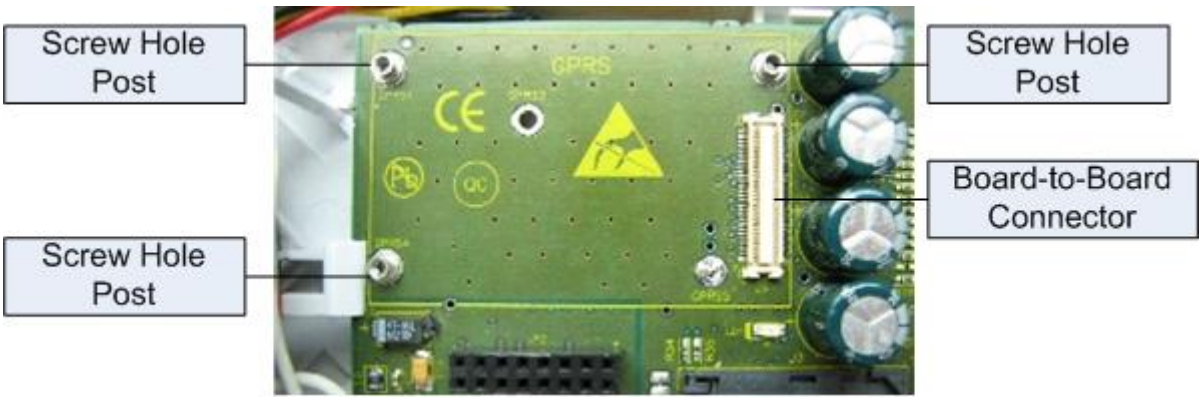
The GSM/GPRS Antenna is comprised of:

- Antenna
- COAXIAL Cable
- Antenna Connector (at the end of the COAXIAL Cable)

2.2.1.3 GSM/GPRS Modem Connector

The GSM/GPRS Modem Connector is inside the ES7000EG control panel, on the upper left corner of the printed circuit board. It connects to the bottom of the GSM/GPRS Modem and contains:

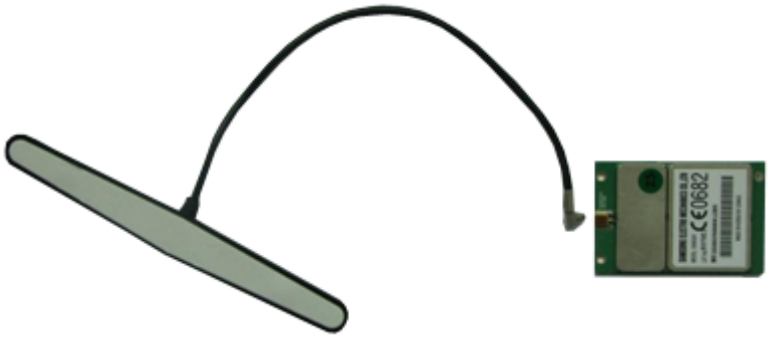
- Three screw hole posts
- Board-to-Board Connector

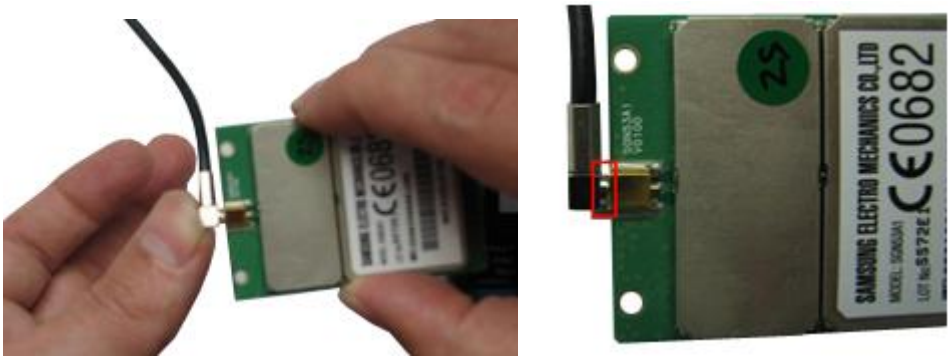


➲ **To install the GSM/GPRS modem:**

1. Connect the coax cable connector of the antenna to the antenna connector of the GSM/GPRS modem.

Note: The pictures of the GSM/GPRS module below are an example only. The actual brand and part-number of the module may vary.





2. Verify that the connection is stable and firm.
3. With the ES7000EG control panel open, locate the GSM/GPRS Modem Connector at the corner of the panel's circuit board. It is labeled **GPRS**.

4. Place the GSM/GPRS modem so that the screw holes line up with the screw holes protrusions.

Note: Be careful not to not to disconnect the antenna while performing this function. Antenna disconnection causes a fault in the system when trying to connect to the GSM network.

5. Push down so that the Board-to-Board IDE Connectors match up and connect.
6. Using the appropriate screwdriver, attach the three screws so that the Modem Connector is securely fastened to the modem board.

Note: Use the screws supplied with the modem kit. Unspecified screws can damage the GSM/GPRS Modem Hardware as well as its functionality.

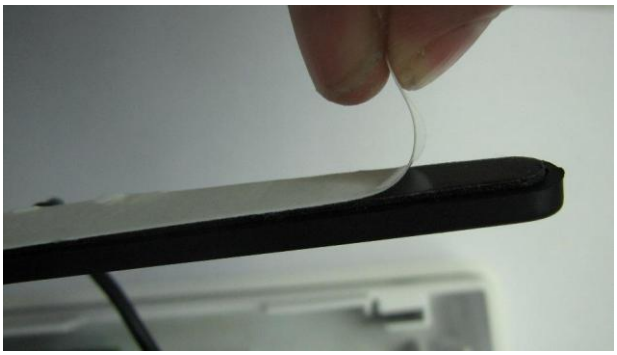
2.2.2 Mounting the GSM/GPRS Modem Antenna

The GSM/GPRS modem antenna is mounted on the upper side of the ES7000EG control panel's inner casing.

Note: Be sure to follow the installation instructions closely so that the coaxial cable is positioned correctly and the antenna does not get disconnected.

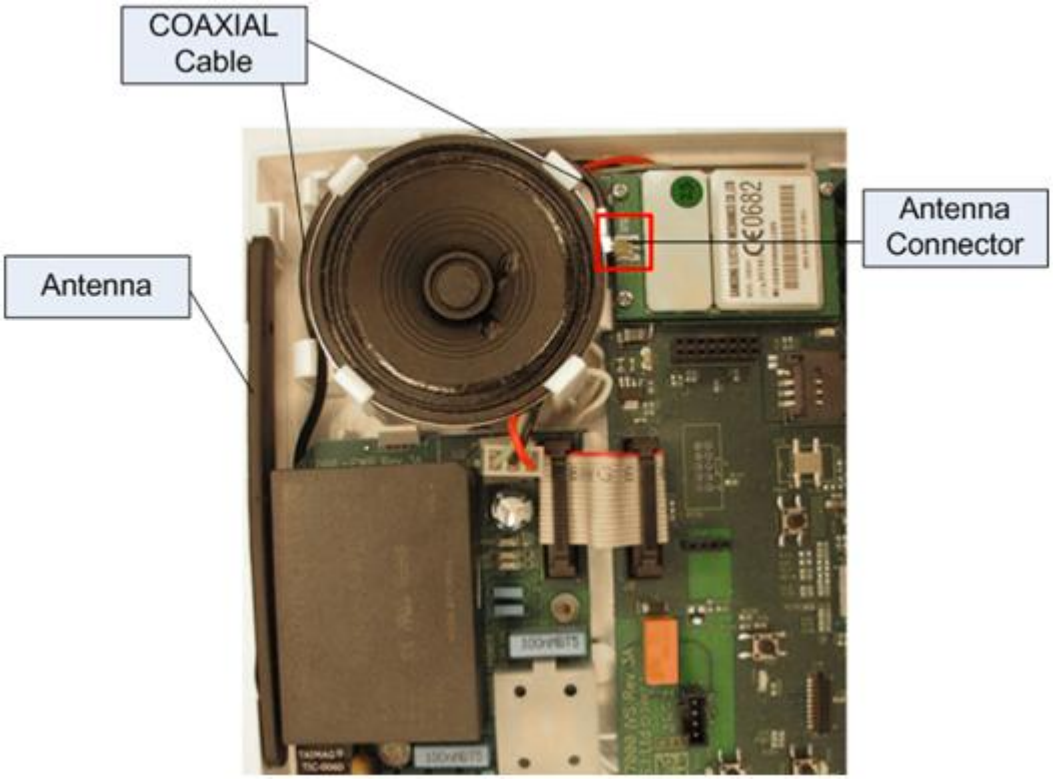
➲ To mount the GSM/GPRS modem antenna:

1. Remove the protective plastic on the antenna to reveal double-sided tape.



2. Thread the coaxial cable and place the antenna on the inner casing at the top of the ES7000 shell as shown in the figure below.

3. Double check to make sure that the modem and antenna have been mounted in the correct positions (as is shown in the figures below).



4. Insert the SIM Card according to the instructions in section 2.3 " *Inserting the* SIM Card*"*.

   The figure below displays the full GSM/GPRS hardware assembly.

Note: When using a Samsung brand module with the ES7000EG control panel connected to a power source, The LED lights up to indicate that the GSM/GPRS Modem is synchronized with the GSM network. From power-up, synchronization between the modem and the wireless telephone system may take approximately two minutes.

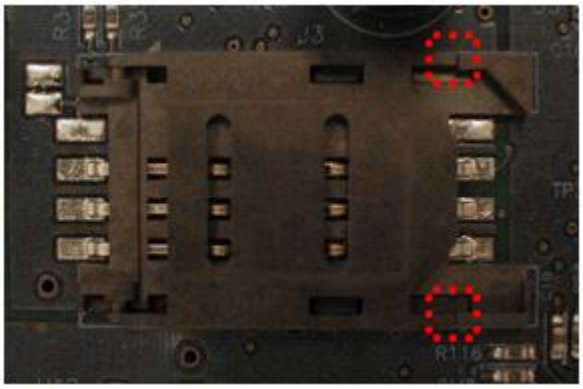
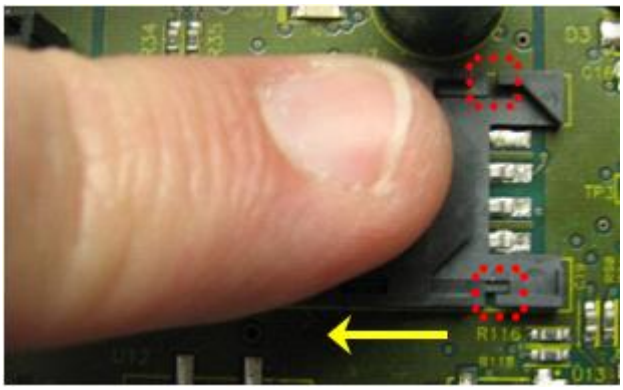
When using Motorola brand module, this LED indicates an active GPRS session.

2.3 Inserting the SIM Card

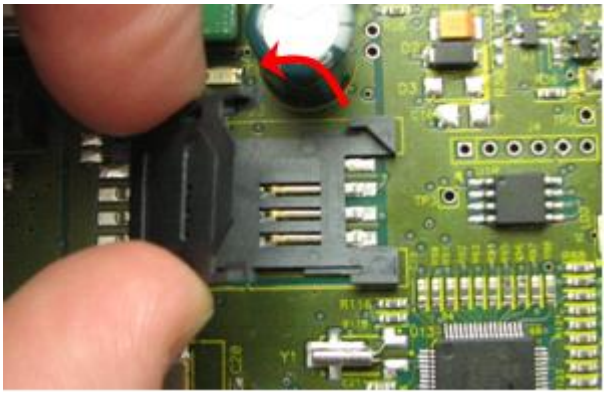
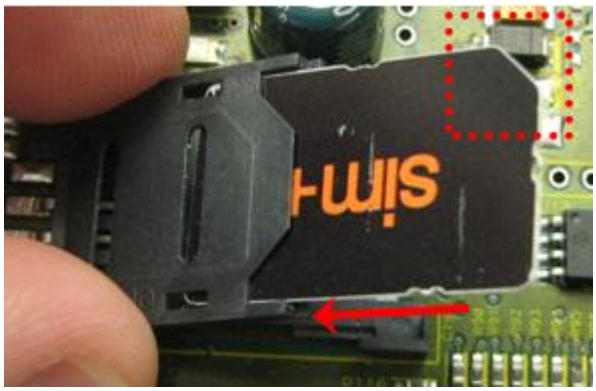
As part of the GSM/GPRS transmission configuration, a SIM card is inserted into a holder on the ES7000EG control panel's circuit board.

➲ To insert the SIM card:

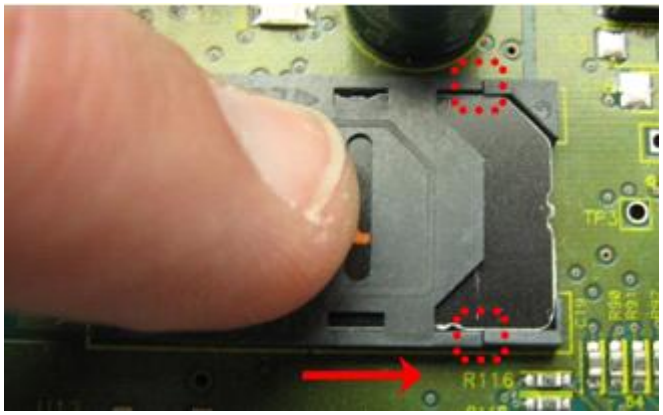
5. Gently press down with your finger to slide the cover and pull the flap in the direction as shown below.

6. Open the SIM card holder cover and insert the SIM card.

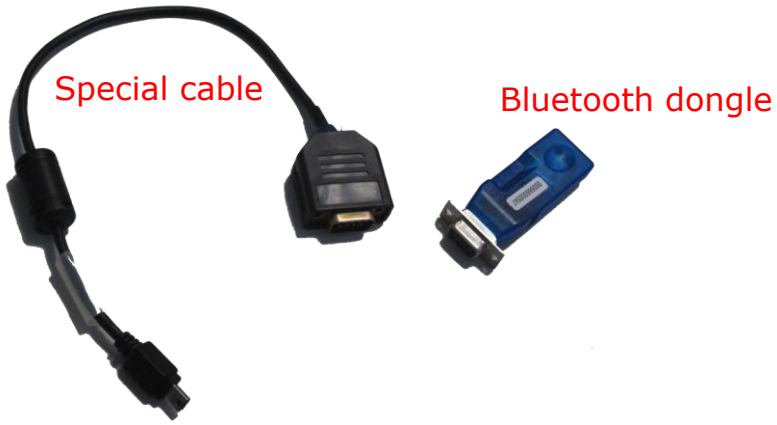
7. Close the SIM card holder cover and slide it back into place as shown below.



WARNING! Trying to insert a SIM card in the wrong direction can damage the SIM card. Be sure to follow the above figures to assure the correct alignment.

2.4 Connecting the Mini USB Cable

For initial setup using the Atlas Mobile application with the BlackBerry Smartphone, each professional installer is provided with a Wireless Bluetooth dongle and a specially designed Mini-USB cable that can be attached to the ES7000EG control panel for setup.



WARNING! The mini USB port on the ES7000EG is not a real USB. It is uniquely designed for use with the specific cable used by installers. Do not connect to any USB equipment because it could seriously damage both the ES7000EG and the USB equipment.

The end user must never use or access this Mini-USB port.

For information on the initial setup of the ES7000EG Security System using the Atlas Mobile application via BlackBerry Smartphone, defining the peripherals and setting the initial parameters, refer to the *Atlas Mobile chapter 3.3.1 below*.

For initial setup or for modifying the parameter configuration using the ESI-CMS application, the professional installer is provided a special Mini-USB cable (with an active electronic circuit) that enables the installer to connect a laptop or PC to the ES7000EG control panel for setup.

For information on modifying and updating the ES7000EG Control Panel parameters using the ESI-CMS application, refer to the *ESI-CMS chapter 3.3.2 below*.

➲ To connect the Mini USB cable:

1. Locate the Mini USB connector on the bottom of the ES7000EG panel.
2. Insert the special Mini USB cable into the Mini USB connector. The ES7000EG panel enters Installation mode and the 10 numbered LEDs on the panel flash yellow.
3. If connection is approved and successful, the panel will sound the "long rising tone"  which symbolizes the "plug-in indication".
4. If connection is not successful the panel will sound a bad beep.
5. After successful connection, when disconnecting the cable, the panel will

sound the “long dropping tone”  which symbolizes the “plug-out indication”.

3 Operation

3.1 About the ES7000EG Control Panel Equipment

The ES7000EG Control Panel can utilize the following auxiliary equipment:

- GSM/GPRS Modem – required for wireless communication
- Antenna and Coaxial Cable – required for wireless communication

3.1.1 ES7000EG Hardware Front and Back Views

The figures below display the front and back of the ES7000EG control panel.

Figure 1: ES7000EG Control Panel Front View

Table 1: ES7000EG Control Panel Front View and LED States

#	Item
1	Speaker
2	S.O.S Button and LED
3	Call guard Button and LED
4	Arm LED
5	Open zone LED
6	System Fault LED
7	Communication LED
8	Power LED
9	Call Monitor Station and LED

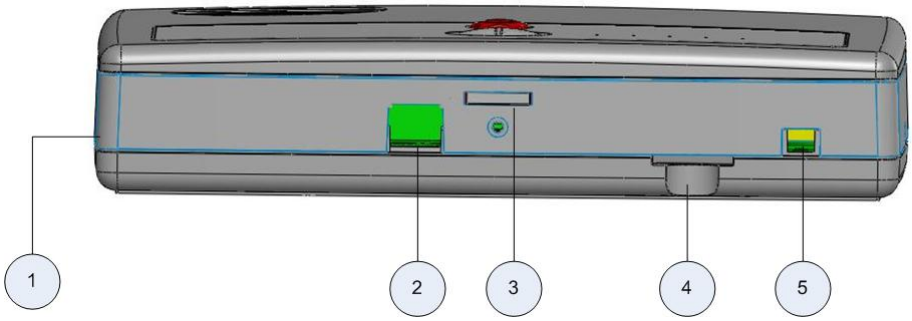


Figure 2: ES7000EG Control Panel Side View

Table 2: ES7000EG Control Panel Side View

#	Item
1	Power Cable Punch-out
2	Punch-out
3	Open/Close Clip
4	SD Card Slot
5	Mini USB serial connector

Figure 3: mini-USB with rubber cap

3.2 Buttons and Indications

3.2.1 ES7000EG Hardware Front and Back Views

The figure below displays the front and back of the ES7000EG control panel.

Table 3: ES7000EG Control Panel Front View and LED States

#	Item	LED Status		
		OFF	ON	Flashes
1	Speaker			
2	S.O.S Button and LED	○	Red	Red Flashing
3	Call guard Button and LED	○	Yellow	Yellow Flashing
4	Arm LED	○	Red	Red Flashing
5	Open zone LED	○	Yellow	Yellow Flashing
6	System Fault LED	○	Red	Red Flashing
7	Communication LED	○	Red	Red Flashing
8	Power LED	Red (batt)	Green	Green Flashing
9	Call Monitor Station and LED	○	Red	None

Note: The LED flash rate is 0.5 seconds per interval

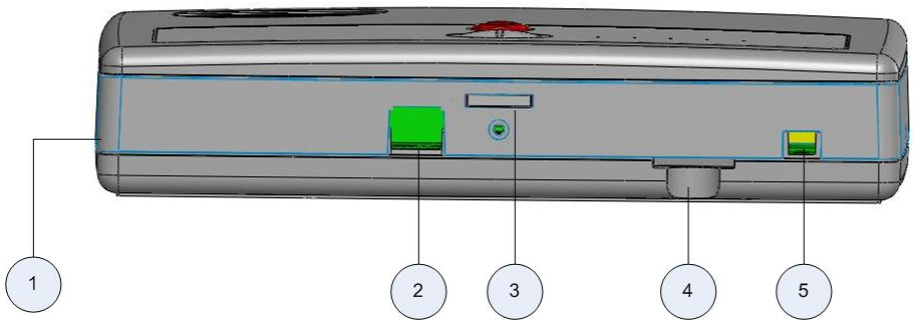


Table 4: ES7000EG Control Panel Side View

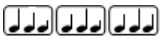
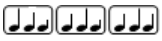
#	Item
1	Power Cable Punch-out
2	Punch-out
3	Open/Close Clip
4	SD Card Slot
5	Mini USB serial connector

3.2.2 Audible Indicators

The audible indicators of the ES7000EG control panel are detailed in the table below.

Table 5: Audible Indicators

Action	Tone Pattern description	Tone Pattern
Plug-in Indication	Long rising beep	
Plug-out Indication	Long dropping beep	
S.O.S Button is Pressed	Brief high octave beep	
Good Beep	Medium high octave beep	
Bad Beep	Double low octave beep	
No Defaults Beep	Long and short low octave beeps	

Action	Tone Pattern description	Tone Pattern
Chime	Two long, high octave beeps separated by a delay	
Alarm (Security)	A continuous siren in a rising and falling cycle	
Alarm (Safety)	A continuous siren in a rising and falling cycle	

3.2.3 Power Status

A single LED provides the power status information. An Audible bad beep is sounded when disconnected. The table below details the power status indicators of the ES7000EG control unit.

Table 6: Power Indicators

Power Status			
220V Connected	 Green		220V connected
220V Disconnected	 Green Flashing	Bad beep (once)	220V disconnected
220V Disconnected (empty batt. state)	 Red		220V disconnected

3.2.4 Wireless Communication Status

A single status LED provides the wireless communication status information. The table below details the wireless communication status indicators of the ES7000EG control unit.

Table 7: Wireless Communication Indicators

Status			
GSM Fault	 Red		When there is GSM fault
Sending Message	 Red Flashing		When GSM message is being sent
No GSM Fault/No Message is Being Sent	 Off		When there is no GSM fault, **no** message is sent

3.2.5 System Status

A single status LED provides the system status information. The table below details the system status indicators of the ES7000EG control unit.

Table 8: System Status Indicators

			
Crucial Fault	 Red		Crucial faults
Fault	 Red Flashing		Faults The
No System Fault	 Off		No system fault

3.2.6 Arm Status

A single status LED provides the Arm status information. The table below details the Arm status indicators of the ES7000EG control unit.

Table 9: Arm Status Indicators

			
Arm/Force Arm	 Red		While the system is in arm mode
Part Arm	 Red Flashing		While the system is in part-arm mode
Unset	 Off		While the system is in unset

3.2.7 Open Zone Status

A single status LED provides the Open Zone status information. The table below details the Open Zone status indicators of the ES7000EG control unit.

Table 10: Open Zone Status Indicators

			
Open Zone	 Yellow		While there is an open zone
Detection	 Yellow **- one blink**		PIR/Shock sensor detection
No Open Zone	 Off		While there is no open zone

3.2.8 Call Guard function

Pressing on the Call Guard button will dial to the predefined number (Usually the monitoring center) for a full duplex speakerphone call.

A single status LED provides the Call Guard status information. An Audible "good beep" is sounded when the Call Guard is engaged. An Audible "bad beep" is sounded when the Call Guard is disengaged. The table below details the Call Guard status indicators of the ES7000EG control unit.

Table 11: Call Guard Status Indicators

			
Call Guard Engaging	 Yellow	Good beep	While call guard call is in process
Call Guard is Disengaged	 Off		While call guard call disengaged

3.2.9 S.O.S function

In case of emergency, the user should press on the S.O.S button and then the system will notify the central monitoring station.

When the LED stays permanently red it means that the S.O.S signal has been received correctly.

A single status LED provides the S.O.S status information. An audible S.O.S beep is sounded to indicate acknowledgement when an S.O.S message is sent. The table below details the S.O.S status indicators of the ES7000EG control unit.

Table 12: S.O.S Status Indicators

			
Sending Message	 Red Flashing	S.O.S beep	The period between engaging S.O.S and receiving ACK for the message
S.O.S State, After Receiving ACK	 Red		After receiving ACK, for S.O.S message, before verification call
No S.O.S	 Off		When no S.O.S is engaged/after verification call

3.2.10 Monitoring Station Status

A single status LED provides the **Monitoring Station** general status. An audible "good beep" is sounded when the **Monitoring Station** button is pressed. The table below details the **Monitoring Station** status indicators of the ES7000EG control panel.

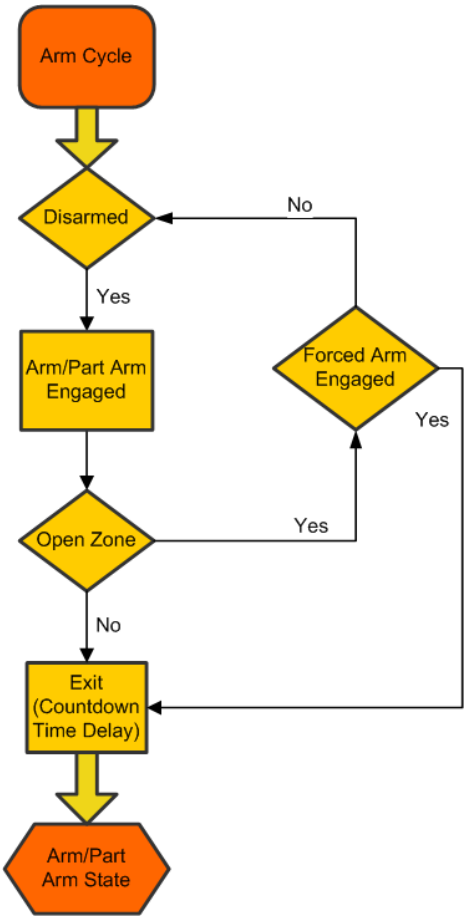
Table 13: Monitoring Station Status Indicators

			
Call Monitoring Station Request	 Red		After receiving message requesting to connect the Monitoring service by pressing the **Monitoring Station** button
Calling Monitoring Station/No Monitoring Station Request Received	 Off	Good beep	After pressing **Monitoring Station** button/no call request is sent

3.2.11 Detailed Operation and Modes

3.2.11.1 The Arm Cycle

The diagram below illustrates the phases of the Arm cycle.



3.2.12 Maintenance

A singe Maintenance LED provides the system status when the ES7000EG control panel is set to Maintenance mode. When the communications mini USB connecter is attached or detached, an audible beep is sounded.

Table 14: Maintenance Related Indicators

			
Attach Indication/ During Installation	 Yellow - open zone  Yellow- call guard	Attach beep	After attachment, connection is identified
Fault Attached State	 Yellow	Bad beep	After plug-in failure
End Install Performed	 Yellow		After successful installation
Detached Without Preceding "End Install"	 Off	Detached beep	After detach, without performing "end install"
Detached preceding "End Install"	 Off		"End install" preceding time-out

3.2.13 No Default

The LED combination in the table below indicates a non-operational mode in which the panel is not in operational mode or is missing default parameters.

Table 15: Non-operational mode indicators

			
No Defaults Indication	 Red - fault  Yellow - open zone	No defaults beep	While no default parameters were downloaded

3.2.14 Alarm

A single LED indicates the Alarm status activated when an alarm is triggered. An audible alarm is sounded.

Table 16: Alarm Status Indicators

Alarm in Process	Red Flashing - S.O.S Red Flashing - call guard Red Flashing - arm Red Flashing - open zone Red Flashing - fault Red Flashing - GSM Red/Yellow Flashing – power	Alarm	While alarm is in progress, its duration could be configured by CMS
Arm After Alarm	Red Flashing - S.O.S, call guard, arm, open zone, fault, GSM Red Flashing - power	X	Arm state which comes after alarm is no unset action is made
Alarm in Memory	Red Flashing - S.O.S, call guard, arm, open zone, fault, GSM Red/Yellow Flashing – power	X	Alarm in memory is displayed after single unset action

3.3 Optional Settings and Defaults

You can configure basic parameters for the EverGuard Control Panel using the Atlas Mobile application and the ESI-CMS applications.

3.3.1 Atlas Mobile Application

➲ To configure the Control Panel's automated behavior:

1. On the **Installation** screen, roll the trackball to the Control Panel icon. 

2. Click. The Installation - Control Panel screen appears displaying the automated scenarios of the detected EverGuard Control Panel.

3. Roll to the line item to be edited and click. A popup menu appears.
4. Choose which device with corresponding ID No. you want to activate during each of the five (5) scenarios on the screen.
5. Press the Update button to activate changes.

➲ Configuring System and Video Scenarios

When configuring the Security system you must set:

1. Full entry, part entry and exit parameters. These parameters set the number of seconds
   - Between entry and keying in the entry pin code.
   - Between keying in the pin code and exiting before the alarm sounds.

- Auto update of Date and Time – the date and time of the ES7000EG Control Panel is synchronized with the Blackberry's system time settings, as well as with the EGC server and ESI-CMS.
- Duress pin code – a code that allows entry into the security area but causes the control panel to send a distress code to the control center.
- Set the Video/Photo Scenarios via the Video/Photo Configuration button.
- There are preset scenarios available on the system. Video/Photo can be turned on and off according to the scenarios selected. At most, two cameras can be associated with a scenario.

➲ To configure the System:

1. On the **Installation** screen, roll the trackball to the System Configuration  icon.

Figure 4: ES7000EG System Configuration

2. Click. The System Configuration screen appears.

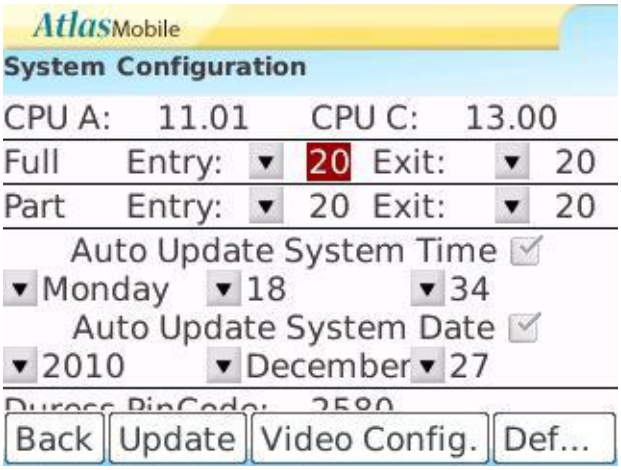


Figure 5: ES7000EG System Configuration Menu

Note: The **CPU A** and **CPU C** are Read-Only parameters.

3. For Full and Part, Entry and Exit, roll to the desired parameter. The list of time duration options appears. The range is 1 to 180 seconds. Note that for compliance with the EN 50131 standard, both Entry and Exit times must be set to values of 45 seconds maximum.
4. Click the desired parameter. The selection appears on the screen.
5. To enable Auto-Update of Date and Time, roll to the required checkbox and click. The option is marked and synchronization of date and time between the ES7000EG Control Panel and the Blackberry's systems date and time settings is enabled.
6. Roll to **Duress Pin-Code:** and enter the four-digit code to be designated as the Duress Pin code on the control panel.
7. Click **Video Config** The Editing Video Scenario screen appears with a list of the available scenarios.

Figure 6: Editing Video Scenario

8. Roll to the desired scenario and change what you want.
9. Click **Update**. You are prompted to save the changes.

10. Click **Save**. A progress screen appears.
11. When processing is complete a message appears stating that the record was updated successfully. Click **OK**.
12. The Editing Video Scenario Screen reappears.
13. Click **Back** to return to the System Configuration Screen.
14. Click **Back** to return to the Installation Screen.

➲ To configure the Dialer Settings:

The Control Panel communicates with the Control Center via GSM (Cellular Telephone).

1. On the **Installation** screen, roll the trackball to the Dialer Settings icon. 

Figure 7: ES7000EG Dialer Settings

2. Click the icon. The Editing Dialer Settings screen appears.

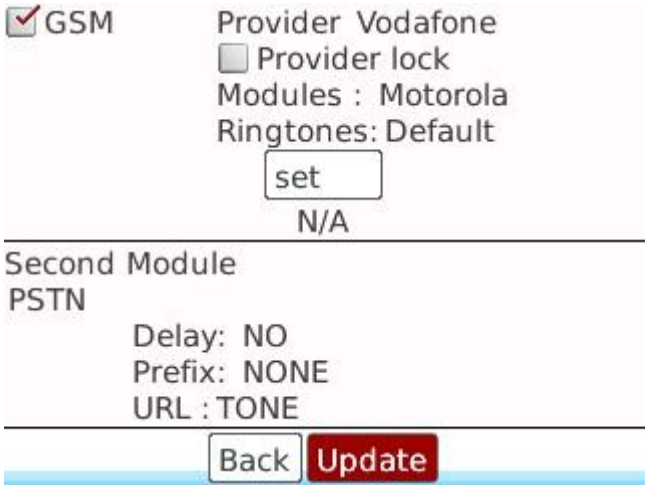


Figure 8: Dialer Settings Configuration

3. For GSM click the GSM checkbox.
4. Roll to **Provider** and click. The list of available service providers appears.

5. Select the desired provider and click. The selected provider is listed on the screen and a predefined dialing sequence is added.
6. A selection of at least one communication channel is mandatory. A pop up message will appear in case of no communication channel is chosen.
7. Roll to **Delay** and choose yes or no.
8. To add a required dialing prefix, roll to **Prefix** and click. Select the prefix from the dropdown.
9. Enter the required prefix digits and click. The prefix digits appear on the screen.
10. Click **Update**. You are prompted to save the changes

➲ To Edit the Dialer Settings:

1. On the **Installation** screen, roll the trackball to the Dialer Settings icon.
2. Click the icon. The Editing Dialer Settings screen appears.
3. Modify the settings as in the procedure for configuring Dialing Settings.

➲ To enter the Operation Code:

Configuring the Operation Code is only available to control panels that have not yet been set to operating mode (CCS).

The following Operation Codes are used in the system:

Table 17: Operation codes

Status	Description	Trigger
NTS	Set up	Preset
ITS	Testing	End Installation
CCS	Operating	Panel activation by: 1. Monitoring station operation (command) 2. ESI-CMS 3. Blackberry®

The operation codes are set on the control panel depending on the trigger.

1. On the **Installation** screen roll the trackball to the Operation Code  icon.

Figure 9: ES7000EG Operation Code

2. Click. The Panel Status screen appears displaying the currently implemented mode.

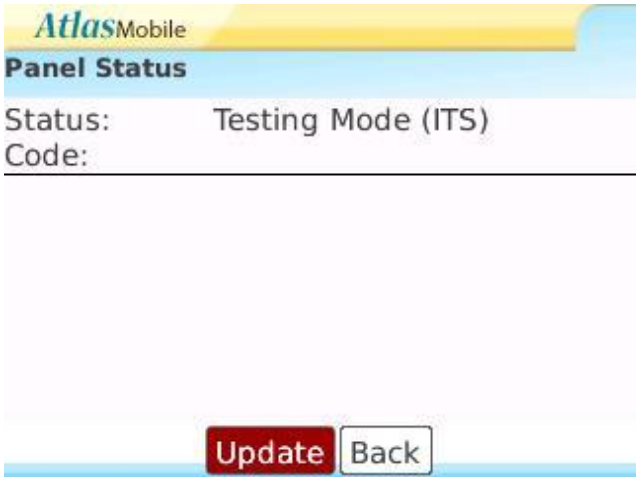


Figure 10: Atlas Mobile Panel Status

3. Roll to **Code** and Click.
4. Enter the 4 digit activation code.
5. Click **Update**.
6. A message appears stating whether or not the activation code was accepted and stating the current status of the system.
7. Click **OK**.

➲ To configure the Account Information:

The Account Number identifies the customer to the control center. The default settings of a new panel define the Account Number as 0. A Red message is displayed stating **DTMF not received**.

The GSM phone number on the account info screen is the one that the monitoring station uses to contact the panel.

1. On the **Installation** screen, roll the trackball to the Account Info icon. 

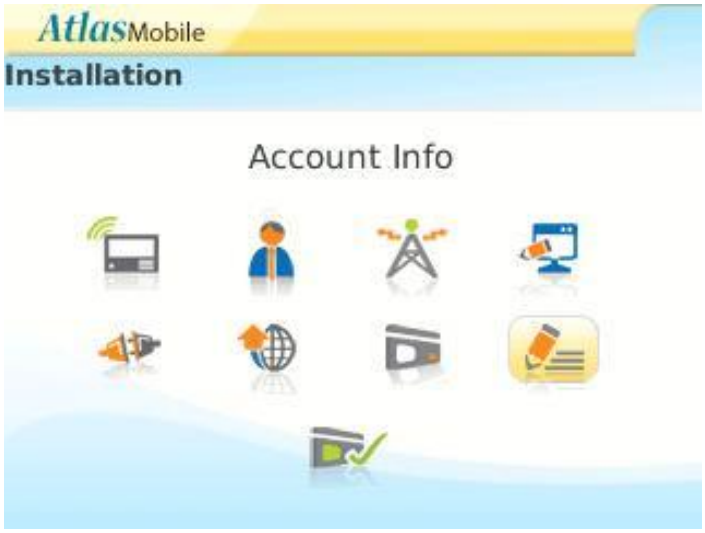


Figure 11: ES7000EG Account Info

2. Click. The Account Settings screen appears. This screen appears automatically only for new control panels that have not yet been assigned an account number.

Figure 12: ES7000EG Account Settings

Note: In order to check the account number and GSM phone number for configured control panels, click the account info button to access this screen manually. If this information does not appear automatically, click Get communication channels button.

3. Roll to Account Number and enter the Customer Account Number
4. Click **send**. The system connects the control center to the new panel. This may take a few seconds.

Note: You need to set at least one communication option (GSM) before you can click send.

5. Click **Send to** generate a new DTMF code that is sent to the database. A notification message is displayed on the screen confirming this action.
6. When complete, press the exit button (or back) and you are returned to the main screen.

➲ To configure the User Settings:

Different types of users can be defined with different permissions regarding access to the secured area. Each user is assigned a unique pin number and entry settings.

The available option combinations are listed in the table below.

Table 18: User types

Type	Attendance	Temporary
Master	☑ or ☐	Not available
Standard	☑ or ☐	☑ or ☐
Access Only	☑	☑

Attendance – keeps track of access (entrances and exits) in a log on the panel that is sent to the control center. This log can be accessed at a later date.

Temporary – limits the number of times a user can access the secured area.

1. On the **Installation** screen, roll the trackball to the User Settings icon.

Figure 13: ES7000EG User Settings

2. Click. The Installation – Users screen appears with a list of Users currently defined in the system displayed.

Figure 14: Installation - Users

3. Roll to **New** and click. The Editing User screen appears.

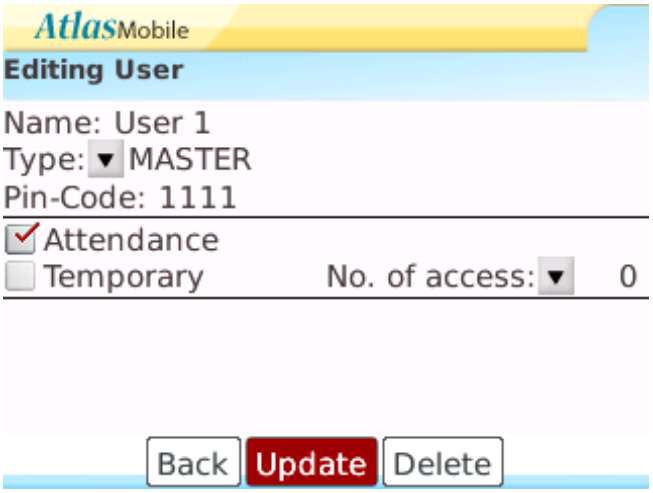


Figure 15: Editing User

4. Roll to **Name** and type in the name of the user.
5. Roll to **Type** and click. The list of Type options appears:
   - Master
   - Standard
   - Access Only
6. Roll to the desired option and click. The selected Type appears on the screen.
7. Roll to **Pin-Code** and enter the users chosen Pin code.
8. Roll to and click the Attendance check box.
9. If applicable, roll to and click the Temporary check box. A list of numbers of access options appears. The range is 1 to 255.
10. Roll to the desired number and click. The selected number of accesses allowed appears on the screen.
11. Click **Update**. You are prompted to save the changes.
12. Click **Save**. A progress screen appears.

13. When processing is complete a message appears stating that the record updated successfully. Click **OK**.
14. The Installation – User Screen reappears with the new user highlighted.
15. Click **Back** to return to the Installation Screen.

➲ To Edit a User:

1. On the **Installation** screen, roll the trackball to the User Settings  icon.
2. Click. The Installation – Users screen appears.
3. Roll to the line item to be edited and click. A popup menu appears.
4. Roll to **Edit** and click. The Edit User screen appears.
5. Modify the parameters as in the procedure for adding a new User (follow the procedure for adding new user as outlined above).

➲ To delete a User:

1. On the **Installation** screen, roll the trackball to the User  icon.
2. Click. The Installation – Users screen appears.
3. Roll to the line item to be deleted and click. A popup menu appears.
4. Do one of the following:
   - Select **Delete**.
   - Select **Edit**. The Editing Users screen appears. Click **Delete**.
5. You are prompted to confirm the delete. Click **Delete**. You are returned to the Installation – Users screen. The device is deleted.

3.3.2 ESI-CMS Application

➲ To initially connect to the ES7000EG control panel:

For the initial configuration, connect to the control panel via either a direct connection or a wireless connection.

For a direct connection, use a standard mini-USB to serial cable to connect between the control panel and the computer or laptop (not provided).

For remote communication use a GSM or GPRS connection.

Once the communication is established between the ESI-CMS software and the ES7000EG control panel, the control panel's existing parameters are uploaded to the ESI-CMS software in the computer. This enables changes to be made to the configurable parameters that are then downloaded back to the control panel.

1. Initialize the ESI-CMS application. The Connect dialog box appears.

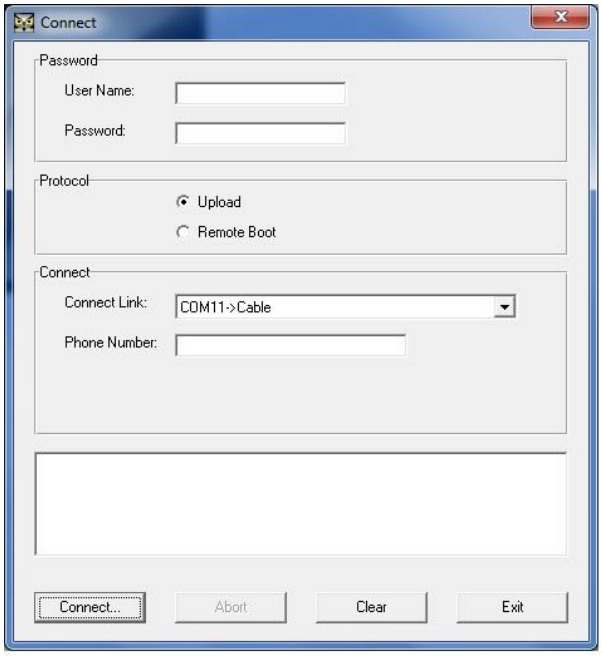


Figure 16: Connect Screen

2. Leave the Username and Password fields empty.
3. Under **Protocol**, select the radio button for:
   - **Upload** -to make either a direct and remote connection to the ES7000EG control panel in order to change configuration
   - **Remote boot** - to make a remote connection to a deployed ES7000EG control in order to update firmware
4. Open the **Connect Link** dropdown menu, which opens a list of available ports for different communication channels. Select the desired option.
5. If a GSM connection is selected, type in the appropriate telephone number in the **Phone Number field**.
6. Click **Connect**. Loading progress information appears in the message section at the bottom and the Panel Info dialog box is displayed.

Note: When making a direct connection, if a timeout occurs and the connection is not established, or if you need to exit and reenter the ESI-CMS, you must unplug the mini USB from the control panel and then reconnect it. The connection can then be reestablished

➲ To Connect to a Control Panel if the application is already running

1. From the **Link** menu select **Connect** or

   Click  . on the toolbar. The Connect dialog box appears.
2. Follow the initial connection instructions as above.

➲ To download the new configurations to the ES7000EG Control Panel:

- From the **Remote Panel** menu, select **Download** or

  Click  from the toolbar. The changed configurations are downloaded to the control panels.

➲ To disconnect from an ES7000EG control panel:

1. From the **Link** menu select **Disconnect** or

   Click  on the toolbar.

2. To confirm the disconnection, click OK. You are notified that the End of Communication is approved by the Control Panel. The connection to the ES7000EG control panel is closed.

➲ To access the panel information:

The Panel Info dialog box displays the current settings of the ES7000EG control panel to which the ESI-CMS is currently connected. Most of the information is read-only. Using this screen, you can set the Communication mode, Arm/Disarm the ES7000EG control panel, refresh the data, and upload the configuration from the ESI-CMS to the panel.

1. From the **Options** menu, select Panel Info. The Panel Info dialog box appears. The following information is displayed:

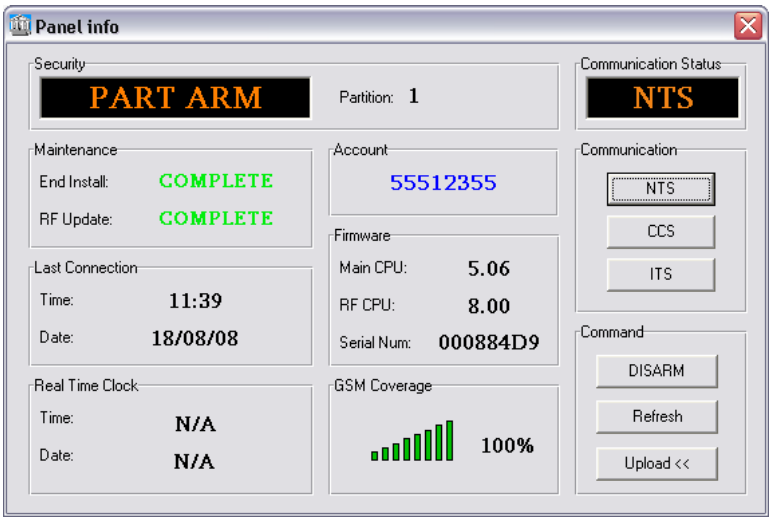


Figure 17: Panel Info Dialog Box

Security

- System status
  - Arm – the system is fully armed
  - Part Arm – the designated partition is armed
  - Disarmed – the system is disarmed

- **Partition** – In Part Arm mode, indicates the number of the partition that is armed

Communication Status – Communication mode in operation

- NTS - no transmission status
- CCS - continuous cycle status (default setting and after activation)
- ITS - test mode, used by the technician during initial panel configuration, modification, or upgrade

Note: The test mode remains in effect for only two hours. It will automatically revert to its previous state if a new a state is not manually selected or if an operative code is not sent.

Maintenance - status of the last software update

- End Install – Complete = successful update
- RF Update – Complete = successful update

Account – ES7000EG Control Panel ID number

Communications – Sets the desired Communication mode (See *Communication Status* above)

- NTS
- CCS
- ITS

Last Connection

- Time – the time when the ESI-CMS was last connected to this particular ES7000EG control panel
- Date - the date when the ESI-CMS was last connected to this particular ES7000EG control panel

Firmware

- Main CPU – firmware version number of the main CPU
- RF CPU – firmware version number of the RF CPU
- Serial Num - ES7000EG Control Panel serial number

Real Time Clock

- Time
- Date

GSM Coverage – displays the quality in percentage of the cellular connection

Command

- Arm/Part Arm/Disarm – Sets the Security operation mode on the ES7000EG or ES7000EG Control Panel
- Refresh – refreshes the data from the panel

- Upload – uploads the configuration from the ES7000EG or ES7000EG Control Panel to the ESI-CMS

2. To exit the Panel Info dialog box, click . You are returned to the main screen.

➲ EverGuard Control Panel Main Interface

ESI-CMS main interface contains the following elements:

- Menu bar
- Toolbar
- Status bar
- Navigation pane tabs

WARNING! Changes made in the ESI-CMS are NOT automatically applied to the panel. Any changes MUST be downloaded to the panel.

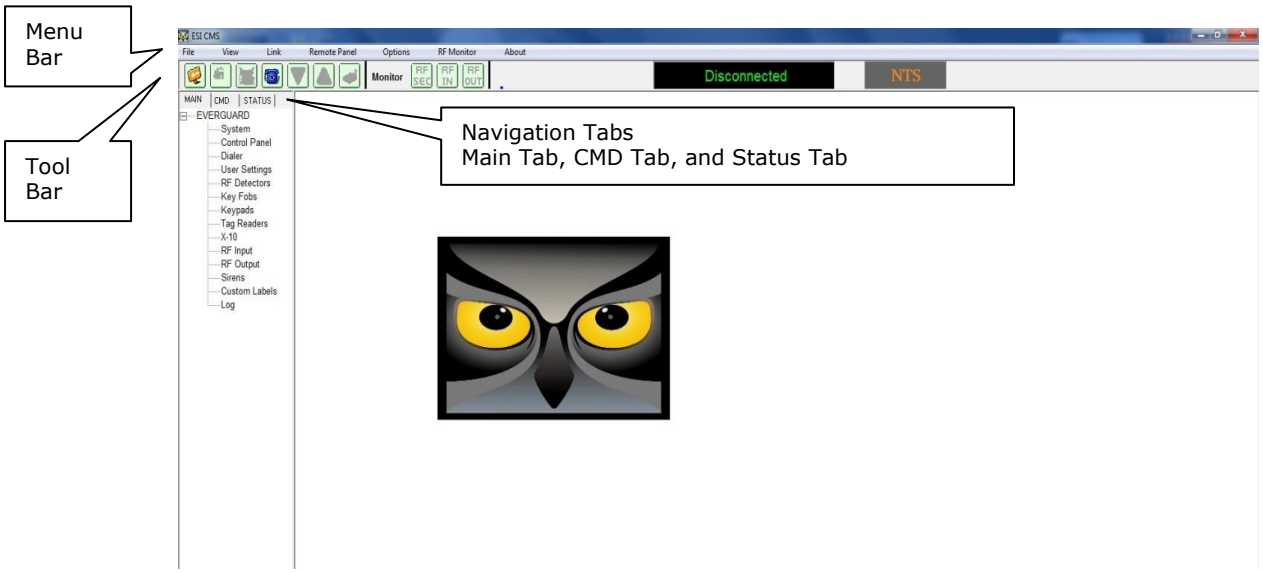


Figure 18: ESI-CMS Main Interface

3.3.2.1 Toolbar

The toolbar contains the following buttons:

Exit ESI-CMS

Upload

Properties

RF Security Monitor

 Disconnect

 Connect

 Download

 RF Input Monitor

 RF Output Monitor

The use of these buttons is detailed in the relevant procedures throughout this document.

3.3.2.2 Status Bar

The Status bar displays the current connection status of the panel, **Connected/Disconnected**, as well as the Communication Status:

- NTS - no transmission status
- CCS - continuous cycle status (default setting and after activation)
- ITS - test mode, used by the technician during initial panel configuration, modification, or upgrade

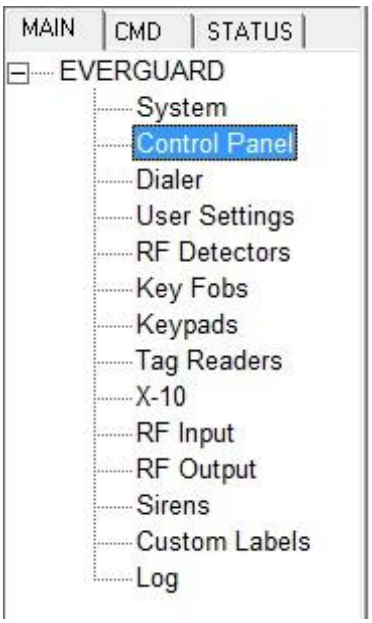
3.3.2.3 Navigation Pane

The Navigation Pane is comprised of three tabs: Main (default display), CMD and Status.

3.3.2.4 Main Tab

The MAIN tab of the navigation pane contains links each accessing a category of parameters. They are:

- System
- Control Panel
- Dialer
- User settings
- RF Detectors
- Key Fobs
- Keypads Tag Readers
- X-10RF Input
- RF Output
- Sirens
- Custom Labels
- Log



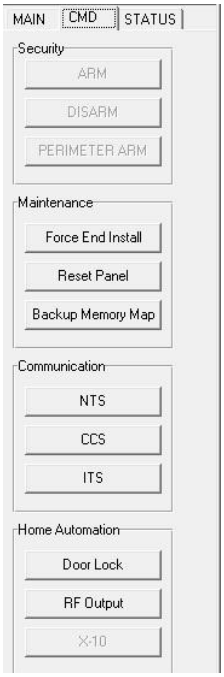
Note: by default, every screen that is displayed from the navigation pane contains parameters that cannot be modified until they are enabled.

3.3.2.5 CMD Tab

The CMD tab controls many of the security commands in this single navigation pane.

It is divided into the following sections:

- Security
- Maintenance
- Communication
- Home Automation



➲ To set the command options via the CMD tab:

1. On the Navigation pane, **CMD** tab, select **Security**, and set the Security mode according to the desired method to secure the designated area. This is done using remote upload.
   - Arm – the system is fully armed
   - Disarmed – the system is disarmed
   - Perimeter Arm – the perimeter partition is armed
2. Under **Maintenance**, if the Panel Info dialog box reads **INCOMPLETE** after a software update attempt, force the end of a Software update. Click **Force End Installation.**
3. To reset the Control Panel, click **Reset Panel**.
4. Under **Communication Status**, CCS is the default setting.
5. Under **Communication**, select one of the following three modes to change the status in the Communication Status:
   - NTS
   - CCS
   - ITS

After any change, press the communication button, and a dialog box appears to state that the Communication status is being changed.

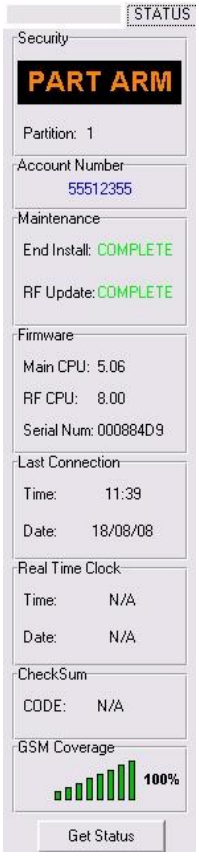
6. Under **Home Automation**, to activate a door lock, click **Door Lock**.
7. To activate an RF Output device, click **RF Output**.
8. To activate and X-10 device, click **X-10**.

3.3.2.6 Status Tab

The Status tab contains the same information as is found on the Panel Information dialog box.

Two additional items in this tab are:

- **Checksum** – displays N/A
- This is only relevant for remote boot otherwise it displays NA
- **Get Status** – refreshes the data in the status tab



➲ To display System Parameters:

The System parameters screen is a read-only display of the system parameters and their current settings.

- On the **MAIN** tab of the Navigation pane, click **System**. The system screen appears.

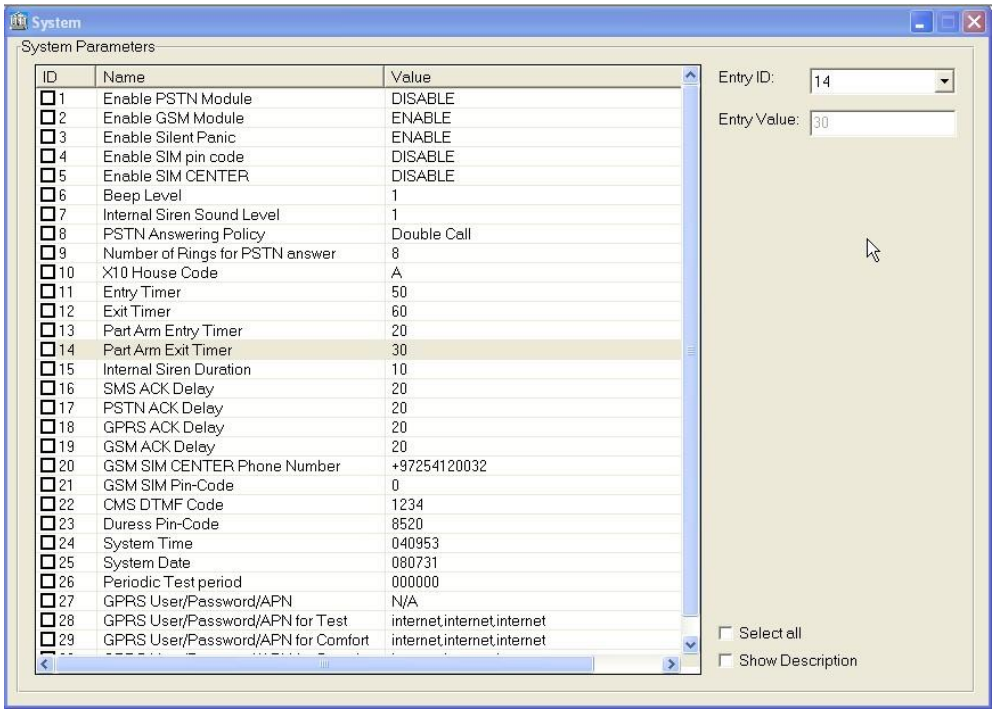


Figure 19: System Screen

➲ **To configure the Control Panel**

3.3.2.7 The control panel is divided into several parameter sets:

- Timer Delay – the delay of the alarm when entering/exiting
- Sound – the alarm volume and setup
- Power – sets the messages sent to the monitoring station after a power failure
- Active Output Devices – Device IDs
- Password – Duress pin-code and ESI-CMS DTMF code
- System Time – Read-only date/time parameters
- Transmitter – Wire line or wireless transmission parameters

Note: When the Control Panel screen is initially opened, all checkboxes are unmarked, and all of the parameters are dimmed and not configurable. Click the checkbox to enable.

You can also access the following configuration groups via the Control Panel screen:

- Dialer Configuration
- GPRS Configuration

1. On the **MAIN** tab, click **Control Panel**. The Control Panel screen appears.

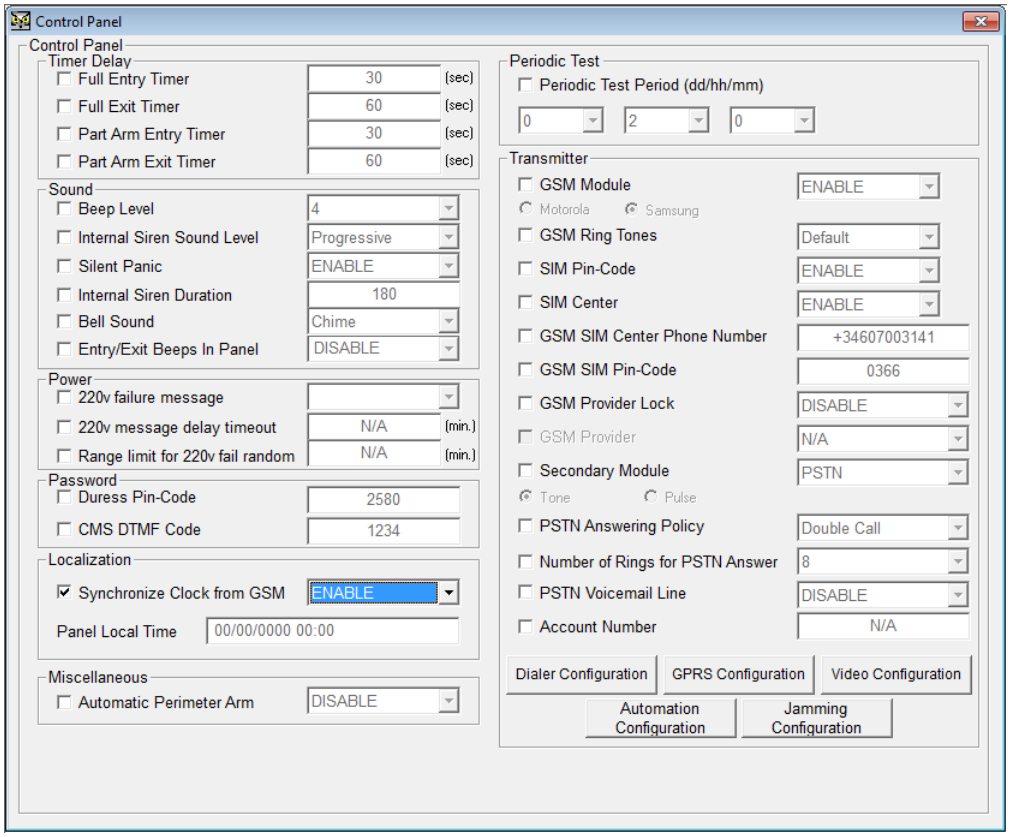


Figure 20: Control Panel Screen

2. To edit a specific parameter, mark the relevant checkbox. The parameter is then enabled and you can modify it.
3. Under **Timer Delay**, parameters enable you to set the, configure the entry/exit timed devices using the following Timer Delay parameters:
   - Full Entry Timer
   - Full Exit Timer
   - Part Arm Entry Timer
   - Part Arm Exit Timer

The valid range for each of these parameters is 1 to 180 seconds.

For compliance with the EN 50131 standard, both Entry and Exit times must be set to values of 45 seconds maximum.

4. Under **Sound**, set the sound levels and functions of the alarm for the following parameters:
   - **Beep Level** - The beep level controls the volume of the beep and can be set from 1 to 7.
   - **Internal Siren Sound Level** – The internal siren sound level controls the volume of the internal siren and can be set from 1 to 9, or it can be set for **Progressive** (beginning at a lower decibel and escalates).
   - **Silent Panic** – When Silent Panic is enabled, it is not necessary to set the Beep level or the Internal Siren Sound level.
   - **Internal Siren Duration** – Determines the duration that the internal siren sounds. The Internal Siren duration can be set between 5 to 180 seconds.

5. Under **Power**, set the indicators that notify the monitoring station of power failure for the following parameters:
   - **Random time for 220v fail indication** – Enables or disables the random time message that is sent to the monitoring station. This sends a message at random time intervals to the monitoring station along with the fixed time message. For multiple panels (e.g., in an apartment building), it is recommended to set random time to send a message.
   - **220v indication delay timeout** – Defines the fixed time message to be sent (in minutes). The master clock, after a delay, sends a message to the monitoring station regarding a power failure.
   - **Range limit for 220v fail Random** - Sets the random message to be sent (in minutes). This parameter can only be configured if the **Random time for 220V fail indication** parameter is enabled. It is recommended to set this parameter for the value of that set for **Random time for 220v fail indication** + an additional 5 min.
6. Press the **Automatic Configuration** button to set the automatic RF output activation in each of the following system states:
   - **ALARM**
   - **PANIC**
   - **ARM**
   - **DISARM**
   - **DURESS**

   From the **Device** dropdown list, select one of the following:
   - X-10 devices - can handle stronger appliances (e.g., washing machine, etc.)
   - RF Output devices - generally is set for lights. Assign assigned an ID number. The range is 1 to 16.
7. Under **Password,** configure the following codes:
   - **Duress Pin-Code –** Enter a 4 digit code to trigger dispatching a duress message to the control center.
   - **ESI-CMS DTMF Code –** Enter a 4 digit code to activate external devices.
8. **Localization –** Set the source for the control panel real-time-clock. Select **enable** to sync with the GSM network clock or **disable** to sync with the monitoring station server.
   For compliance with the EN 50131 standard, set **Synchronize Clock from GSM** to **enable**.
   The **Panel local Time** parameters are read-only and are drawn from the system.
9. Set the **Periodic Test Period,** in days, hours, minutes, how often the system should send a test message to the control center.

   Note that for compliance with the EN 50131 standard, this test should be enabled and set to a period of not more than 2 hours.
10. Set the **Transmitter** parameters according to requirements:
    - **GSM Module** – Enables or disables the GSM module.

Note: If the panel connection has been set to Serial (COM), the GSM module must be disabled.

- **SIM Pin-Code** - Enables or disables the SIM pin code. When using SIM cards that are unlocked and do not require a PIN code, the SIM Pin-Code parameter should be disabled.
- **SIM Center** – Enables or disables the SIM center, which is the cellular service provider.
- **GSM SIM Center Phone Number** – Defines the SIM Center telephone number. To add a GSM SIM Center Phone Number, the SIM Center parameter must be enabled.
- **GSM SIM Pin-Code** – Defines the 4 digit SIM pin-code. To add a SIM PIN code, the SIM Pin-Code parameter must be enabled.
- **Account Number** - Defines the panel's account number, when necessary.

➲ To configure the Dialer Configuration

Using the Dialer Configuration Screen, configure dialer parameters for:

- SMS Configuration
- GPRS Configuration
- GSM DATA Configuration
- Cycle Permanent (minutes)
- GSM Configuration
- Video Configuration

Note: When the Dialer Configuration dialog box is initially opened, all checkboxes are unmarked, and all of the parameters are disabled. Click a checkbox to enable it.

1. On the Control Panel screen, click **Dialer Configuration** button. The **Dialer Configuration** dialog box appears.

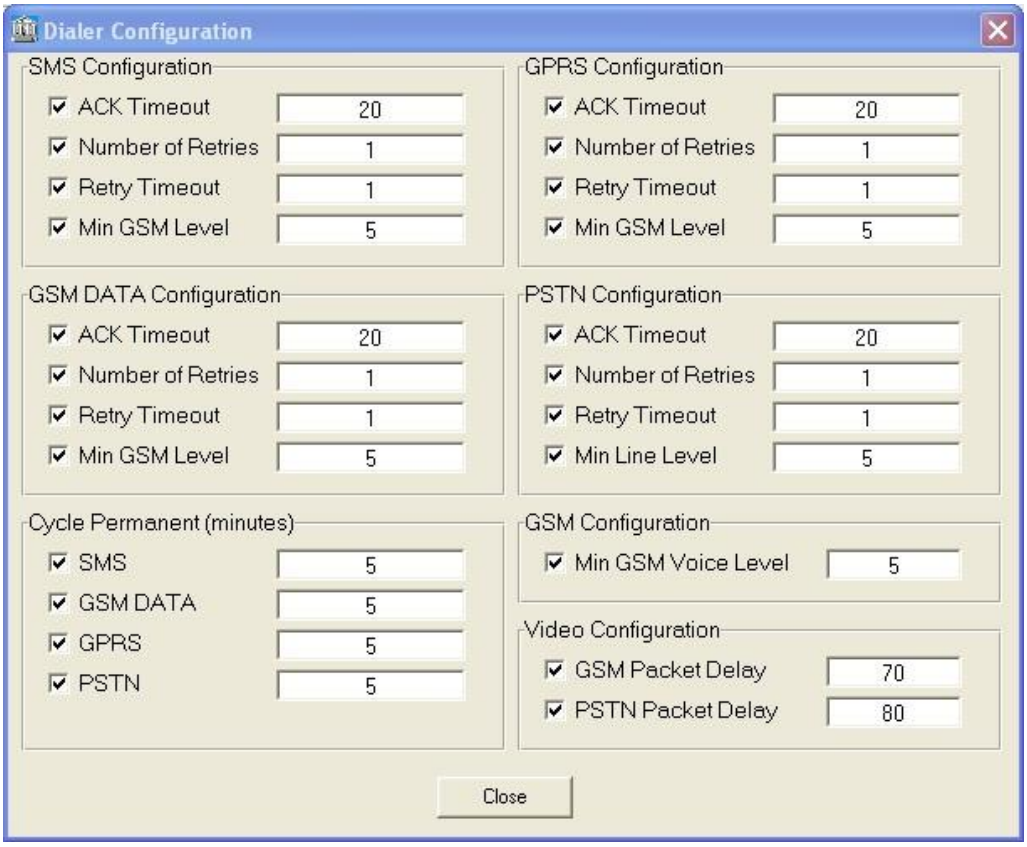


Figure 21: Dialer Configuration Dialog

2. To edit a specific parameter, mark the relevant checkbox. The parameter is enabled. You can then modify it.
3. For **SMS Configuration, GPRS Configuration and GSM DATA Configuration** set the following parameters:
   - **ACK Timeout** –Defines the maximum amount of time (in seconds) that the system waits to receive an acknowledge message before continuing to the next dialing option.
   - **Number of Retries** – Defines the number of times the dialer redials.
   - **Retry Timeout** – Defines the number of minutes the dialer waits before retrying.
   - **Min GSM Level** – Defines the minimum volume level of the GSM.
4. For **Cycle Permanent (minutes)**, set the amount of time in minutes that the system attempts to connect using the following:
   - SMS
   - GSM DATA
   - GPRS
5. For **GSM Configuration**, set the **Min GSM Voice Level** parameter to the minimum volume level of the GSM voice.
6. For **Video Configuration,** set the parameters for the **GSM Packet Delay Time** (in milliseconds).
7. Click **Close**. You are returned to the Control Panel screen.

➲ To configure the APN (GPRS) Configuration:

Using the GPRS Configuration dialog box, configure the destination servers for indoor/outdoor videos. The APN (GPRS) Configuration screen is divided into the following parameters sets:

- **Test Scenario Configuration** – used during system testing and when modifying the configuration
- **Comfort Scenario Configuration** – used when the end user tests the device
- **Security Scenario Configuration** – set for normal use

Note: When the GPRS Configuration dialog box is initially opened, all checkboxes are unmarked, and all of the parameters are dimmed and not configurable. Click a checkbox to enable the parameter.

1. On the Control Panel screen, click **GPRS Configuration** button. The **APN (GPRS) Configuration** dialog box appears.

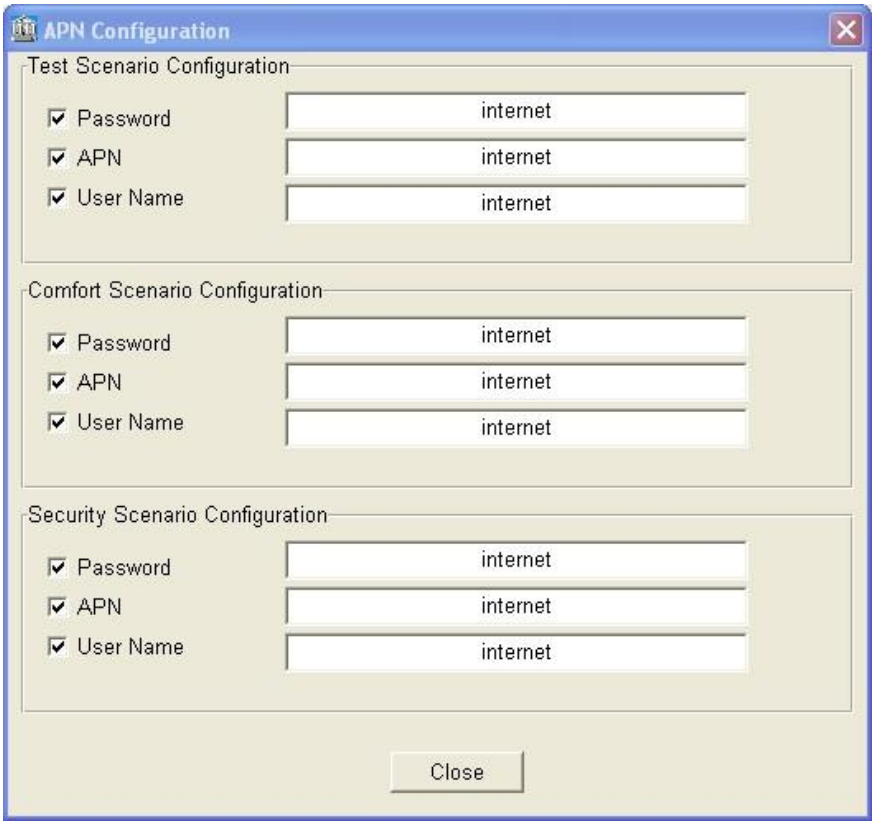


Figure 22: APN (GPRS) Configuration Dialog Box

2. To edit a specific parameter, mark the relevant checkbox. The parameter is enabled. You can then modify it.

3. For the **Test Configuration, Comfort Configuration, and Security Scenario Configuration** parameters, define the following:

- Password – enter the Password received from the local SIM card provider
- APN – enter the Access Point Name received from the local SIM card provider
- User Name – enter the User Name received from the local SIM card provider

4. Click **Close**. You are returned to the Control Panel screen.

➲ To configure the Video Scenario Configuration parameters:

The Video Configuration dialog box contains the following tabs:

- **Suspect** – RF Input device type
- **Tamper Alarm** – tamper action is detected only from the control panel
- **Wrong Code** – pin code entered five times incorrectly
- **Duress Code** – end user enters the duress code
- **SOS** – end user presses panic button on panel or key fob
- **IVD/IPD Security** – detects movement via indoor video/photo device
- **Comfort** – activated by a comfort command message
- **Security** – activated by a security command message
- **Perimeter Alarm** – detects movement via outside photo device
- **All Units Scenario** – activated by a command message
- **OPEN/CLOSE** – user attendance triggers video/photo upon arming/disarming
- **Configuration** – general definitions for video/photo

Note: When the Video Configuration dialog box is initially opened, all checkboxes are unmarked, and all of the parameters are disabled. Click a checkbox to enable the parameter.

1. On the Control Panel screen, click **Video Scenario Configuration** button. The **Video Scenario Configuration** dialog box appears displaying the **Suspect** tab.

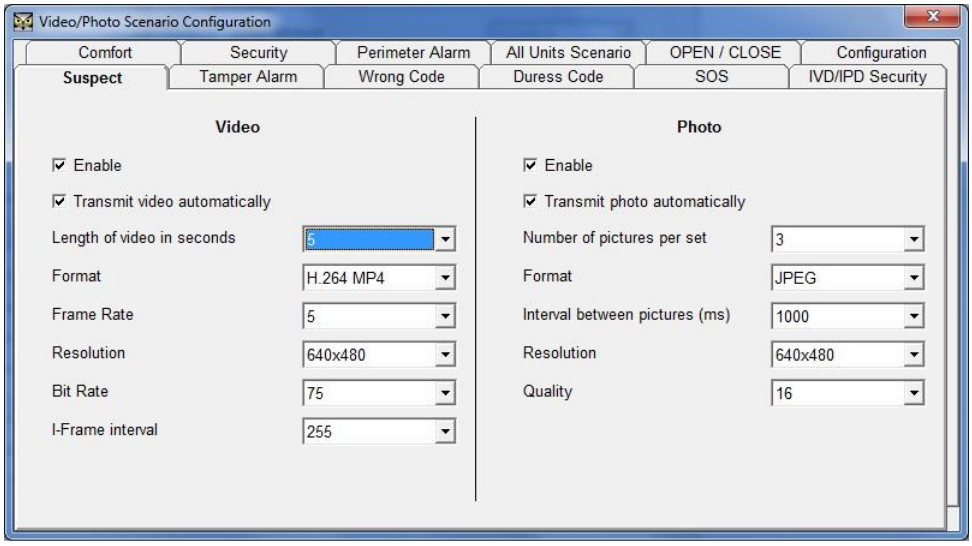


Figure 23: Video Configuration ➔ Suspect Tab

2. To access a specific tab page, click on the appropriate tab.
3. For all tabs (except for the Configuration tab), set the following parameters:

   To enable, check the checkbox to activate all parameters underneath.

   - For Transmit video automatically, check the checkbox to transmit the video automatically to the monitoring station.
   - From the Length of video in seconds dropdown list, select parameters between 5 to 30 seconds.
   - From the Format dropdown list, select one of the following video formats: H 264 VES or H 264 MP4
   - From the Frame Rate dropdown list, select a parameter of between 5 and 30 frame rates.
   - From the Resolution dropdown list, select one of the following sizes: 640x480, 320x240, 160x120, or 80x60.
   - From the Bit Rate dropdown list, select a parameter of between 20 and 255 bit rates.
   - From the I-Frame interval dropdown list, select one of the following intervals: 5, 10, 15, 20, 30, 45, 60, or 255 I-frame intervals.
4. For the Tamper Alarm, SOS, and OPEN/CLOSE tabs, set the following additional parameters:

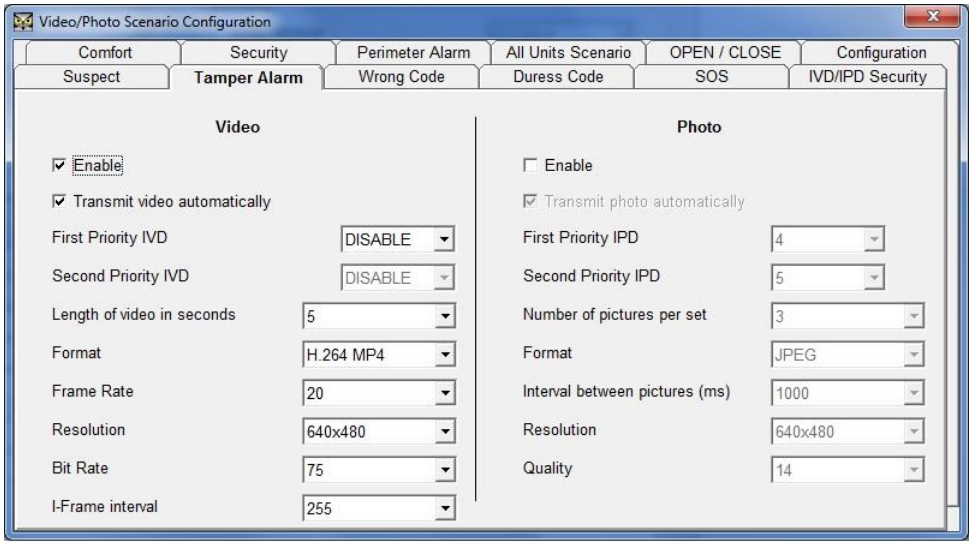


Figure 24: Video Scenario Configuration Screen ➔ Tamper Alarm Tab

- ID of first IVD associated with scenario
- ID of second IVD associated with scenario

Set each to a designated ID device between 1 and 64 that corresponds to the appropriate IVD devices in the control panel.

5. For the Configuration tab, set the following parameters:

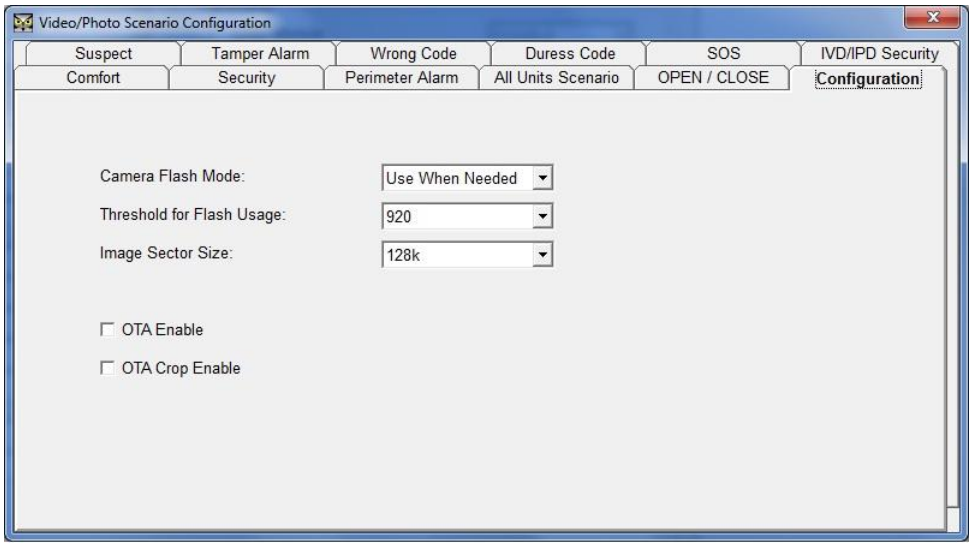


Figure 25: Video Scenario Configuration Screen ➔ Configuration Tab

- **IVD Flash Mode** – select one of the following:
  - Never Use
  - Use When Needed
  - Always Use
- **Threshold for flash usage** –set the threshold percentage of the minimum darkness level. The range is 1-1023%.
- **Video Sector Size** – Select from one of the following sizes:
  - 64k

- 128k
- 256k

- **OTA Enable** – check to enable object tracking
- **OTA Crop Enable** – check to enable zoom in upon movement detection

Note: OTA Enable and OTA Crop Enable can only be enabled with a resolution set to 320x240.

6. Click . You are returned to the Control Panel screen.

Caution: If you have not chosen a valid IVD or OVDS, the parameters in the Video Scenario Configuration tabs cannot be saved.

➲ To configure the Automation Configuration:

Using the Automation Configuration dialog box, configure the device and ID of the automated actions.

Note: When the Automation Configuration dialog box is initially opened, all checkboxes are unmarked, and all of the parameters are dimmed and not configurable. Click a checkbox to enable.

1. On the Control Panel screen, click **Automation Configuration** button. The **Automation Configuration** dialog box appears.

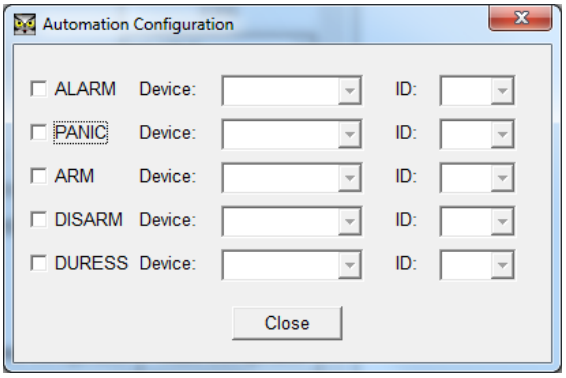


Figure 26: Automation Configuration Dialog Box

2. To edit a specific parameter, mark the relevant checkbox. The parameter is enabled. You can then modify it.
3. For each automatic re-action parameter, define the following:

- Device – select a device or a protocol from the dropdown list.
  The list groups peripherals that use the X10 and RF Output protocols. These protocols are set in the relevant Main tab category. Door Lock is an independent action not grouped by protocol.
- ID – enter the identification number of a peripheral assigned in the relevant Main tab.

4. Click **Close**. You are returned to the Control Panel screen.

➲ To configure the Jamming Configuration:

Using the Jamming Configuration dialog box, configure the action taken where a jamming signal is detected.

Note: When the Automation Configuration dialog box is initially opened, all checkboxes are unmarked, and all of the parameters are dimmed and not configurable. Click a checkbox to enable.

1. On the Control Panel screen, click **Jamming Configuration** button. The **Jamming Configuration** dialog box appears.

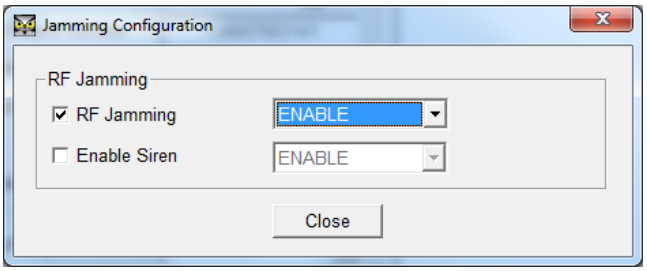


Figure 27: Jamming Configuration Dialog Box

2. To edit the Jamming parameter, mark the relevant checkboxes. The parameter is enabled. You can then modify it.
3. Enable jamming detection (Enable or Disable). If enable is selected a reaction parameter is enabled.
4. Select the Enable Siren re-action checkbox and set the parameter (Enable or Disable).
   Note that the Enable Siren re-action checkbox is only available where jamming is enabled.
5. Click **Close**. You are returned to the Control Panel screen.

Note: For compliance with the EN 50131 standard, jamming detection must be enabled.

➲ To configure the Dialer:

Using the Dialer Screen, set the dialing ID options

1. On the **MAIN** tab, click **Dialer**. The Dialer screen appears.

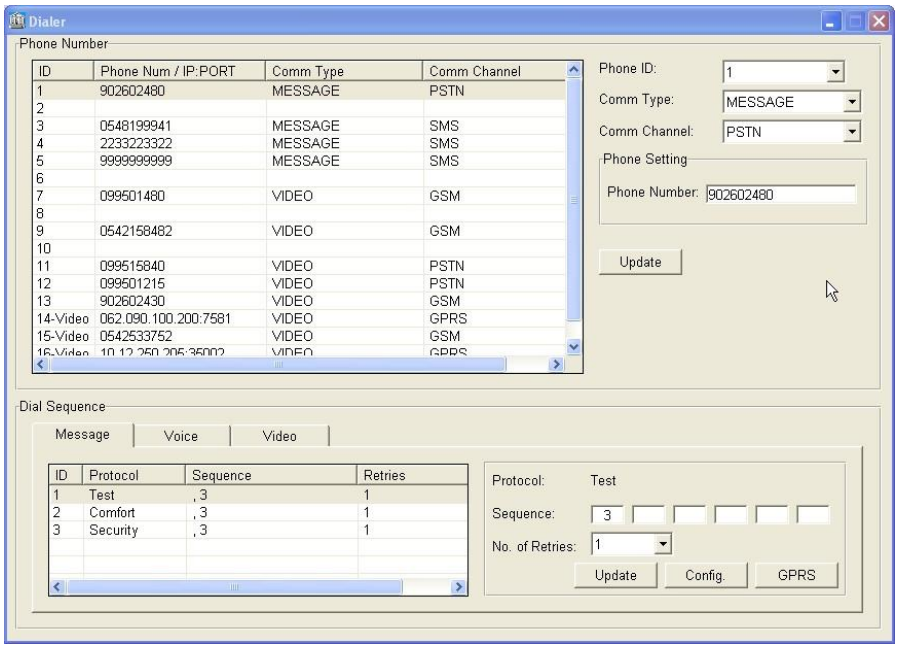


Figure 28: Dialer Screen

2. Under **Phone Number**, select a line item or from the **Phone ID** dropdown list, select one of the thirteen dialing IDs or three video IDs to change the information.
3. From the **Comm Type** dropdown list, select one of the following types:
   - **VIDEO**
   - **VOICE**
   - **MESSAGE**
4. From the **Comm Channel** dropdown list, select one of the following:
   - If VIDEO is selected, choose **GSM or GPRS**
   - If VOICE is selected, choose **GSM**
   - If MESSAGE is selected, choose **GSM**, **SMS or GPRS**
5. For GSM or SMS the **Phone Setting** is enabled. Enter the phone number that the ID should dial.

   For GPRS the **GPRS Setting** is enabled. Enter the IP address and port.

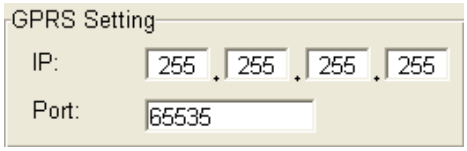


Figure 29: GPRS Setting

6. Click **Update**. The information displayed in the Phone Number section is refreshed according to the configured settings.
7. For **Dial Sequence**, enter the number to which the control center is to dial

and specify the number of redial times (specifically with messages, voice, and video).

- Select the **Message**, **Voice**, or **Video** tab to set the configurations.
- For **Sequence**, enter up to six numbers to be called.
- From the **No. of Retries** dropdown list, select between 1 and 8 times to redial the sequence.

8. Click **Update** to refresh all of the information displayed in the Dial Sequence section.
9. To access the Dialer Configuration dialog box, click **Config**.10.
10. To access the APN Configuration dialog box, click **GPRS**.
11. Click  to return to the Control Panel screen.

Note: For compliance with the EN 50131 standard, also add the home-owner cellular phone number as the last entry to the dial sequence, so that if all communication with the monitoring station is lost, he will get an SMS.

This SMS has some encoded data in it and it looks like this: "ESIP04D01050101019900000300011051900530 3E# XDN000020NNNICE19ZL34NIUP00…".

The only meaning for the user is that the communication with the monitoring station is lost.

➲ To configure the User Settings parameters:

Using the User Settings Screen, you can configure the parameters of up to 31 Users. User can be set to one of three types, Master, Standard, or Access Only, according to their Privilege status on the premises. Their Entry/Exit attendance can be tracked.

1. On the **MAIN** tab, click **Users**. The User Settings screen appears.

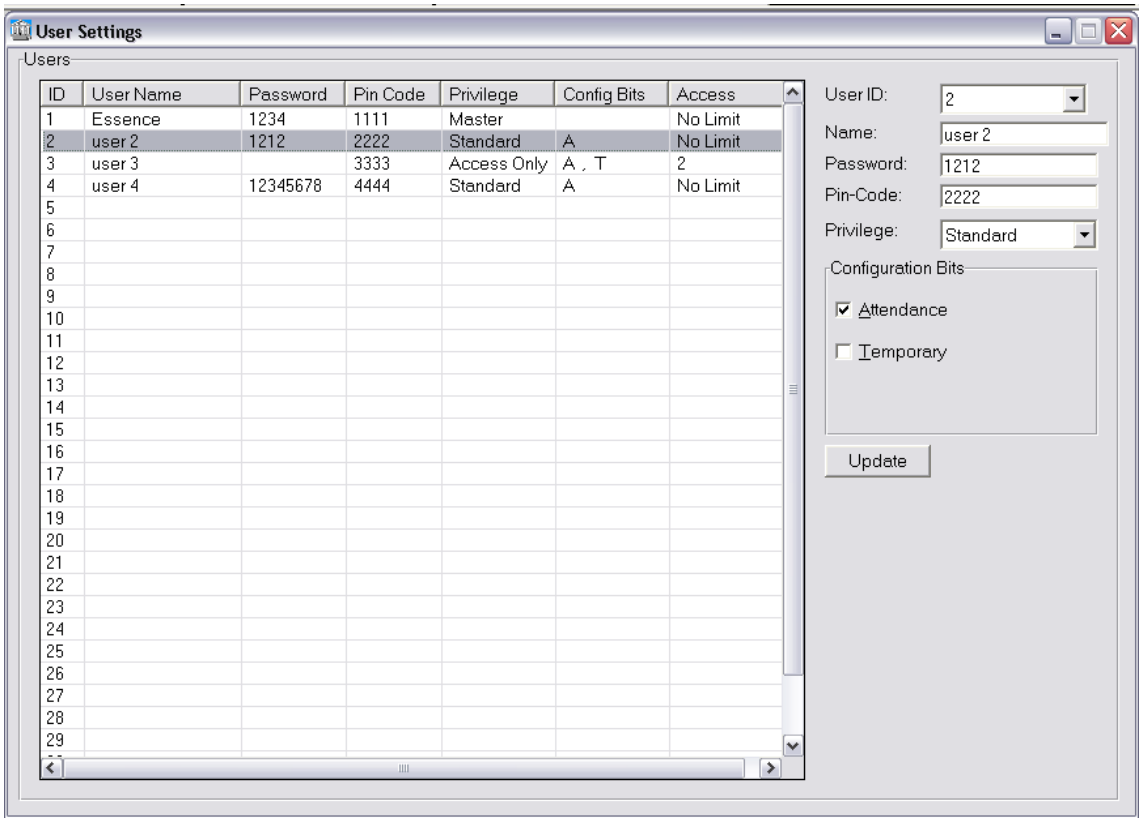


Figure 30: User Settings Screen

2. Under **Users**, select a line item or from the User ID dropdown list, select the user ID (the range is between 1 and 32).
3. For **Name**, enter a user name (up to 12 characters) (optional).
4. For **Password**, enter a password (up to 8 characters). This is for the end user to use when accessing different settings (e.g., comfort message, etc.).

Note: The password must have 8 characters, which can be numbers, letters and symbols. The password is used for verification data.

5. For **Pin Code**, enter a 4 digit code to be used when entering and exiting.
6. From the **Privilege** dropdown list, select the following for access privileges:
   - Master – for Owners or Managers
   - Standard – for permanent residents or staff
   - Access Only – usually assigned to minor or temporary staff or visitors
7. For **Configuration Bits**, the following checkboxes/dropdown lists are available: Attendance, Temporary, and No. of Accesses.
   - If Master is selected, Attendance is active (and is optional) and Temporary is disabled
   - If Standard is selected, both Attendance and Temporary are active and are optional
   - If Access Only is selected, both Attendance and Temporary are active and mandatory

For Temporary, from the **No. of Accesses** dropdown list, assign the maximum number of times the user may access the premises. The range is 1 to 255.

8. Click **Update.** The User data is refreshed and displayed accordingly.

➲ To configure the Customer Labels parameters:

The technician installing the system can define selected areas to be armed designating these areas as zones. The technician can define up to fifty (50) custom zones from a predefined list.

Select the **Custom Labels** screen.

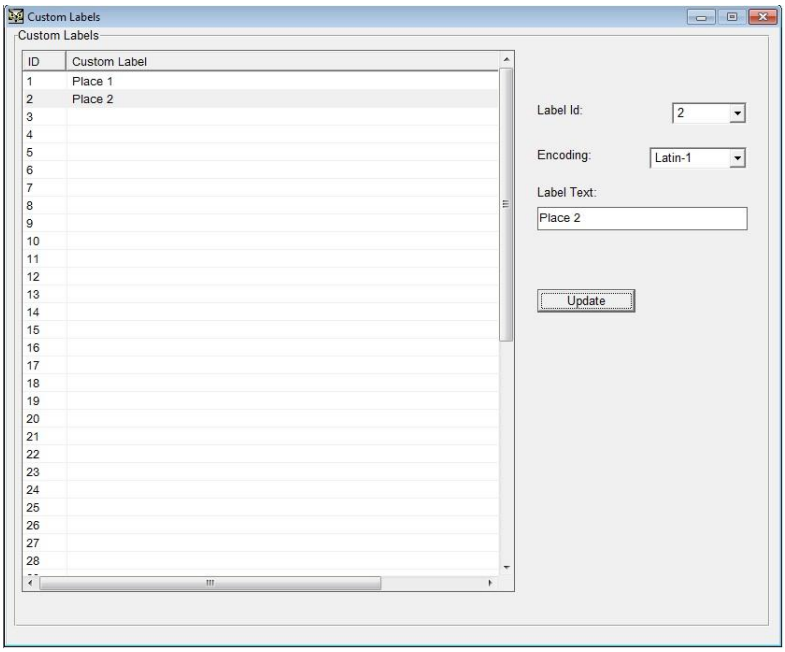


Figure 31: Custom Labels Screen

1. Click the selected Label ID on the main screen.
2. Type the predefined text in the Label Text field.
3. Click **Update.**
4. The main screen displays the label.

➲ To edit a Custom Label:

1. Select the **Label ID** on the **main screen**.
2. Edit the free text in the label field.
3. Click **Update.**

➲ To delete a Custom Label:

1. Select the **Label ID** on the **main screen**.
2. Delete the label text.
3. Click **Update.**

4 Maintenance

A singe Maintenance LED indicates the system status when the ES7000EG control panel is set to Maintenance mode. When the communications mini USB connecter is attached or detached, an audible beep is sounded.

Table 19: Maintenance Related Indicators

			
Attach Indication/ During Installation	 Yellow - open zone  Yellow- call guard	Attach beep	After attachment, connection is identified
Fault Attached State	 Yellow	Bad beep	After plug-in fail
End Install Performed	 Yellow		After successful installation
Detached Without Preceding "End Install"	 Off	Detached beep	After Detach, without performing "end install"
Detached After Preceding "End Install"	 Off		"End install" preceding time-out

Note: Battery maintenance - As all rechargeable batteries have a limited lifetime (usually a few years), the battery of this product should be replaced as recommended by its manufacturer.

5 FCC Radio frequency interference statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Essence Security is not responsible for any radio or communication interference caused by using other than specified or recommended cables and battery or by unauthorized changes or modifications to this equipment.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Essence Security International Ltd.) could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

6 Specifications

Electrical	
Power Supply:	Advanced switching power supply. Input: 100~240 VAC, 50/60 Hz internal AC to DC adaptor. Lithium Polymer rechargeable backup battery
Battery Life:	Provides at least 60 hours backup power during temporary loss of power source
Backup battery spec:	Lithium Polymer battery Rated average voltage: 3.7V Maximum capacity: 6Ah Maximum time to recharge to 80%: 10 hours Low-battery threshold: 3.6V
Battery Power Test:	Upon power-up and periodically
Average current consumption during alarm condition:	320 mA
Average current consumption not during alarm condition:	237 mA 90 mA when operating on backup battery
Wireless	
Bi-directional:	End-to-End Bi-Directional ESI protocol Advanced radio supervision algorithm
Modulation & Frequency:	FM 868.3 MHz in Europe and FM 916.5MHz in America (Factory configured)
RF Coverage:	Up to 700m (2296 feet) (Open Air Nominal)
Supervised Wireless Devices (Powered by Dynamic Memory Map technology):	64 Wireless Detectors 16 RF Input Devices 16 RF Output Devices 8 Key Fobs 5 Key pads 3 tag readers 4 sirens

Communication Modules:	Cellular network: GSM/GPRS Module Quad band (850/900/1800/1900 MHz)
Transmission time:	The time measured from transmission by a wireless detector to the time the system is requesting connection from the cellular network. SMS: 0.2 ±0.05 Sec GPRS: 1 ±0.3 Sec GSM data: 5.5 ± 1 Sec Note that SMS message usually have much larger delays over the cellular network than the other 2 link types. GSM data delay could be reduced (preconfigured) on certain cellular networks.
Functional	
Bi-directional :	Instant system status feedback Instant command Acknowledgement
Security Functionality:	5 Scenarios 32 Users Silent SOS Silent Duress Alarm Internal Siren, up to 100dbA @1m (configurable) Tamper detector (Top, Wall) Extended Event Log with Time/Date stamp
Home Automation:	Wireless control of electrical appliances
Remote Interactivity:	Remote software upgrades Remote programming and configuration
Long range digital voice verification:	High quality Two-way digital audio Enhanced echo cancelling DSP-based algorithm Speaker programmable gain
Safety functionality:	Separate safety alarm, up to 100dBA @1m (configurable) Various detectors (water, gas, smoke etc.) Various panic (SOS) devices
Environmental	
Operating Temperatures:	0°~50° Celsius (32° - 122° Fahrenheit)

Storage Temperatures:	-20°~60° Celsius (-4° - 140° Fahrenheit)
Humidity:	85% relative humidity, non-condensing
Physical	
Dimensions:	(L x W x D) 250mm x 185mm x 50mm (9.84” x 7.28” x 1.97”)
Weight:	1180 grams (incl. battery) – unit only
Color:	Glossy White
Mounting:	Wall, with bracket
Compliance with Standards	
Certification Body:	Telefication B.V.
CE:	CE mark, EMC/EMI according to ETSI EN 301 489-4 ETSI EN 301 489-1, EN 50130-4:1996 EU Directive 1999/5/EC for R&TTE
Radio:	ETSI EN 300 220-3, ETSI EN 300 220-1 CEPT/ERC Recommendation 70-03 EN 50131-5-3:2005 + A1:2008
Safety:	EN/IEC 60950-1, TUV: UL 60950-1, NOM
Security and Alarm Systems:	EN 50131-1:2006 + A1:2009 Class-II Grade-2 EN 50131-3:2009 Class-II Grade-2 EN 50131-6:2008 Type-A EN 50136-1-1:1998 + A1:2001 + A2:2008 (GSM/GPRS module classification: D2, M2, T3, S1, I2, A2 ➔ ATS 4) UL 1023:11-Jan-2010 ANSI/SIA CP-01-2010
Environmental Regulation:	RoHS 2002/95/EC
Reliability (Mechanical and Environmental conditions):	EN 50130-5:1999 IEC 60068
Manufacturing and Materials Standards:	ISO 9001:2008 ISO 14000 ANSI/IPC-610 Class II

Markings: