User's Information

Grace Accountability



Grace Industries, Inc.

Patent Protected
US 7,538,666

In-Command® 3.04.0075
Grace-Watch® 3.04.0075

Protecting Personnel







With advanced hardware and software features, In-Command® and Grace-Watch® systems provide an unbeatable method of protecting your firefighters and personnel at any scene while simplifying the Accountability responsibilities of the Incident Commander and Supervisors.

Important!

IMPORTANT NFPA-1982, 2013 edition, RF PASS Requirements:

The NFPA-1982, 2013 edition, includes minimum requirements for RF PASS systems. The use of the In-Command® software under its default installed-configuration is compliant with NFPA requirements for RF PASS systems.

The host PC running the In-Command® software must have its speakers enabled and volume turned up to a level that can be heard in loud fire ground environments.

The default installation of the In-Command® PC software uses audio files to activate or 'play' on the host PC's speakers for various functions including 'RF PASS alarm', 'RF PASS Evacuation alarm initiated' and 'loss-of-signal alarm'. The In-Command® PC software allows custom audio files to be used in place of the default audio files, however any change to these audio files may jeopardize NFPA compliance if they are not of a suitable nature. **Caution should be used if the default audio files are changed.**

Getting Started
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NOTE: Screenshots throughout the manual are from the In-Command® Software and might not reflect Grace-Watch® Terminology.

Introduction



MX900-H Transceiver



Watchdog System Monitor







Thank you for purchasing a Grace Industries Accountability System

Grace-Watch® Accountability System uses Grace-Watch® Software and the components listed below to provide complete accountability for your personnel during an incident.

In-Command® Accountability System uses In-Command® Software and the components listed below to provide complete accountability for your firefighters during an incident.

System Components

- MX900-H Transceiver - or - Watchdog System Monitor*
- SuperCELL® SC500-H, TPASS®5 or other telemetry devices assigned to personnel for monitoring
- Repeaters, Remote Enhanced Transceivers, and External Antennas may be added as needed to enhance system effectiveness

* Watchdog System Monitor is compatible only with legacy Radio-G Radio Platform telemetry devices.

Safety Monitoring of Personnel





- **Each Firefighter equipped with a SuperCELL or TPASS telemetry device is monitored for PASS Status such as (ON, OFF or ALARM)**
- **Each TPASS telemetry device can be sent an Evacuation, PAR or Roll Call Signal with a simple button press**
- **All Firefighters on scene are automatically populated in the In-Command software and are sorted in real-time based on priority, with Alarm being the highest priority**
- **When an Alarm, Evacuation, PAR, or Roll Call signal is present, the SuperCELL or TPASS User's device will go into a loud audio alarm indicating to the wearer that action is required**

MX900-H Transceiver



- **Receives and processes SuperCELL and TPASS signals and transmits (Evacuation - Call-Back), (PAR - Report-In), and Roll Call signals to these telemetry devices**
- **Monitors PC communications through the USB port and goes into Alarm if the communications fail at any time**
- **External Antennas may also be used as needed**

Watchdog System Monitor



- **Receives and processes SuperCELL and TPASS signals and transmits (Evacuation - Call-Back), (PAR - Report-In), and Roll Call signals to these telemetry devices**
- **Monitors PC communications through the USB port and goes into Alarm if the communications fail at any time**
- **Equipped with an internal battery and connections for external power, 120VAC and 12VDC**
- **Internal backup battery will provide operation for 12 to 14 hours**
- **When battery has been depleted, a 20-minute warning is provided before automatic shutdown to protect system integrity**
- **Equipped with connectors for an extended transceiver and relay contacts, which can activate external devices**
- **External Antennas may also be used as needed**

Watchdog is only available on Radio-G Platform

SuperCELL SC500-H

Personnel Monitoring for Incident Commander
2-Way Emergency Signaling



- Excellent for Officers when not monitoring In-Command Computer
- Small, Rechargeable, Lithium-ion Battery Powered Transceiver
- Back Lit LCD Display Enhances Readability
- Receives ALARM signals, Displays and Identifies other TPASS devices in ALARM
- Repeats Alarm and Evacuation Signals
- Receives Evacuate, PAR, and Roll Call Signals from In-Command
- Audible Alarm Signal and Vibration indicate function
- Ability to send and receive preloaded canned messages
- Manually turn ON and OFF by pressing side buttons simultaneously
- Lack-of-Motion Alarm Function
- Select time to Alarm (30, 60, 90, & 120 seconds)
- Single Button “Alarm” function
- Side Buttons for Easy Reset and Mode Selection
- LCD Display allows monitoring of other TPASS in Emergency Alarm
- Complete Name Database for all users
- Sturdy construction for long life

TPASS-5

2-Way Emergency Signaling and Automated Accountability



- NFPA Compliant Two-way signaling TPASS transmits status of firefighters to In-Command
- Receives: Evacuation, PAR and Roll Call Signals
- Smart-Signal® technology repeating function
- Single button ALARM activation or automatic Lack-of-Motion ALARM
- Three axis, solid state motion sensor
- Two Methods of Attachment
- Over 40 hours in sensing mode
- Over 95dBA at 10 feet

Minimum Computer Requirements
for In-Command or Grace-Watch Systems

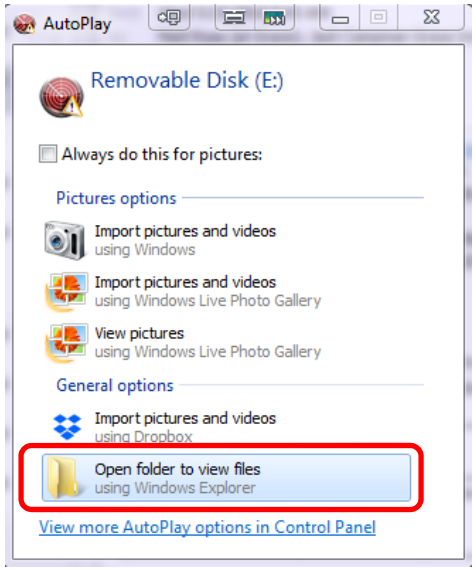
- **Processor:**
  - 1 GHz 32-bit (x86) (2Ghz or faster processor recommended)
- **Operating Systems:**
  - Windows 7, 8, 10 (32-bit and 64-bit)
  - Administrative rights required
- **RAM:**
  - 4GB
- **Monitor:**
  - 1024×768 (Touchscreen Recommended)
  - Note: Use of two screens is recommended when mapping modes are in use
- **Internet Connection:**
  - Required for GPS functionality
- **Hard Disk Size:**
  - 80GB Minimum
- **USB 2.0:**
  - 1 Available Required per Receiver.
- **Speakers**

Installing the USB Drivers from FTDI

USB Drivers must be installed on your PC before MX900-H or Watchdog can be recognized on the PC. FTDI is the world leader in USB development and supplies robust USB communication and functionality in our product.

In-Command® or Grace-Watch® Installation Flash Drive:

- Insert the Installation USB flash drive.
- When prompted, select **Open folder to view files** (or manually go to USB flash drive directory) and select **ICLaunch.exe** or **GCLaunch.exe**
- When you have the option, left-click the **Install** button for Drivers.







Connecting the MX900-H

- Set the Laptop on a flat, level surface
- Attach the MX900-H to Laptop using the duallock Velcro.
- Plug the MX900-H USB cable into the Laptop Computer
- This will connect and power up the MX900-H
- Microsoft Windows recognizes the MX900-H as a USB device
- This action will create a new com port on your Windows computer populated anywhere from Com2 - Com32, depending on your existing Com Ports available in Windows

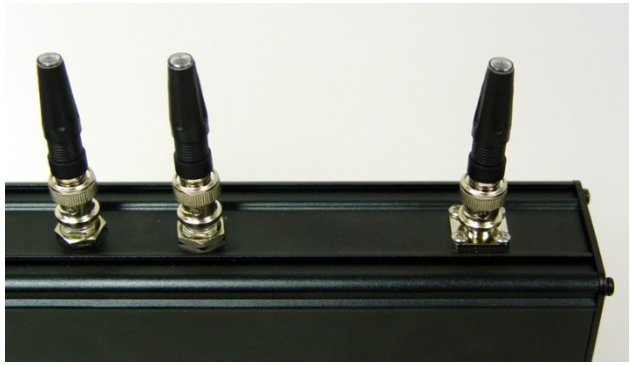


Preparing the Watchdog



- Set the Watchdog Unit on a flat and level surface
- Attach the three Antennas
- Plug into 120VAC Power using the supplied AC Adapter
- Plug the Watchdog USB cable from the Watchdog to the Computer
- This will also cause the Watchdog to power up
- Microsoft Windows recognizes the Watchdog Unit as a USB device

Attaching the Watchdog Antennas





- There are three antennas on the Watchdog
  - The front two antennas are for receiving
  - The rear Antenna is for transmitting
- Attach using the spin lock hardware as shown
- Remote antennas should be used if the Watchdog is to be mounted inside a vehicle (remote antennas are supplied)
- Route the remote antennas so they are attached outside the vehicle

Connecting Computer and Watchdog with USB Cable



- When the Watchdog Unit is plugged into AC Power or the USB cable is plugged into the Watchdog, the Unit will power up automatically
- Observe the “New Hardware found, serial USB port” in Microsoft Windows
- This action will create a new com port on your Windows computer populated anywhere from Com2 - Com32, depending on your existing Com Ports available in Windows

Watchdog – Front & Back Panels



- The Watchdog Front Panel includes the backlit LCD screen and USB interface plug
- Control Buttons include MENU, SELECT, and ALARM
- Press MENU to access available LCD screens, including comm. Diagnostics and Battery Level
- Hold SELECT to manually power down or power up unit
- Press ALARM to silence Audible Alarm
- LED's include: MONITOR ON / POWER, BAT/CHG, RXI, ACT, RXE, TXI, TXE, ALARM, PC STATUS



Power and Auxiliary Equipment Connections

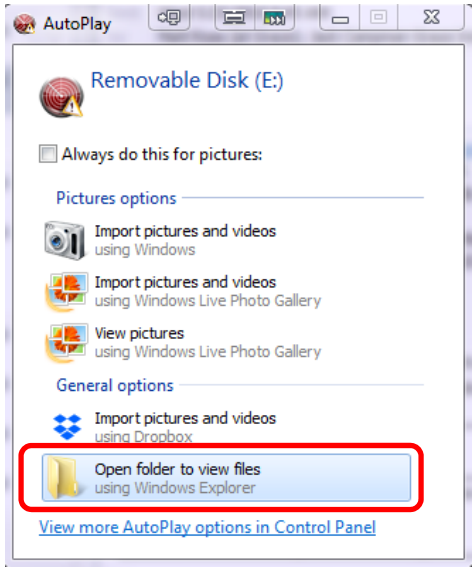
- Located on the rear panel of the Watchdog are power connections for the 120VAC adapter or 12VDC adapter
- Additional connectors are for the external Transceiver, an RS-232 Port, and relay contacts for activating external devices
- External Antennas may be used to enhance system performance

Installing Software for In-Command or Grace-Watch

The install will not complete unless you have administrative rights.

In-Command® or Grace-Watch® Installation Flash Drive:

- Insert the Installation USB flash drive.
- When prompted, select **Open folder to view files** (or manually go to USB flash drive directory) and select **ICLaunch.exe** or **GCLaunch.exe**
- When you have the option, left-click the **Install** button for the In-Command or Grace-Watch Software.
- Follow the on screen prompts.
- You must accept the license agreement to install the product.
- A serial key is required to complete the installation and should have been provided when you purchased the software.





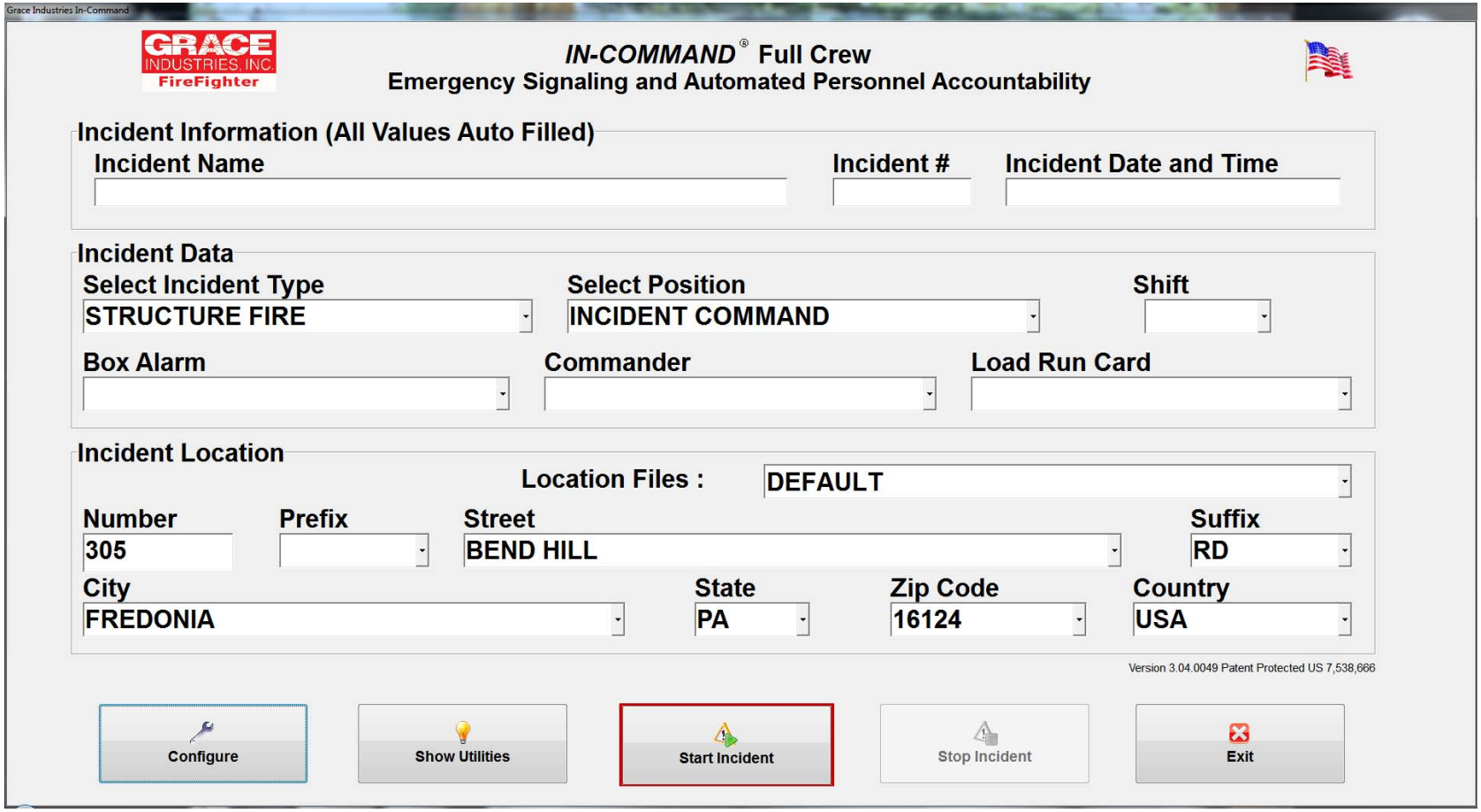


Starting the Software



- **Locate the In-Command or Grace-Watch Icon on the Desktop and double click**
- **The software will start up and the Operation Setup Screen will appear**

The Operation Setup Screen



Operation Setup Description

- **Incident Name, Incident Number, and Time/Date are auto-filled**
- **Must Enter Incident Type and Position to Start an Incident**
- **Location Files May be Pre-Loaded to fill in Location Fields Automatically**
- **Utilities Bar Can be Shown or Hidden by Pressing Button**

Operation Setup Definitions

RETURN TO INCIDENT BUTTON

This button is invisible at startup and does not appear until an incident is started. If you return to the setup screen after the incident has started, the return to incident button replaces the start incident button and allows display of the main monitor screen once again. Note that once an incident is started, entering the configuration and utilities area is disabled.

STOP INCIDENT BUTTON

This button ends an incident and saves the incident information in a file on the hard drive specified by the Incident Name field. This is the method of stopping an incident that should be used for all active incidents monitored by the In-Command system.

EXIT BUTTON

This button exits the application and prompts to save an incident if one is currently active.

INCIDENT AUTO RUN

If the system is configured where all required fields and connections are ready when the application starts, the Start Incident button becomes enabled. You can use the –r switch as a parameter to the application shortcut to automatically start the incident.

Use C:\Program Files (x86)\Grace Industries\In-Command\GBase.exe" –r as the target information for the windows shortcut.

INCIDENT NUMBER

This field contains the Incident number and is auto loaded by the In-Command software when an incident is started. The value will begin at 1 and continue incrementing for every incident saved. If an incident is canceled, the incident number will not be incremented on the next start of In-Command.

INCIDENT DATE AND TIME

This field contains the Incident date and time stamp of when the incident was started and is auto loaded by the In-Command software when an incident is started. This value is un-changeable and records the moment the incident start button was first pressed.

INCIDENT TYPE

This field contains the Incident Type such as structure, warehouse, etc. and must be selected before an incident can be started. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the Incident Type is also permitted.

INCIDENT POSITION

This field contains the Incident Position such as Commander, Safety Officer, etc., and must be selected before an incident can be started. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the Incident Position is also permitted.

INCIDENT SHIFT

This field contains the Incident Shift such as A, B, 1, 2, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the Incident Position is also permitted.

(continued…)

Operation Setup Definitions

Continued…

INCIDENT BOX ALARM NUMBER

This field contains the Incident Box Alarm Number and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. The Label Box Alarm can also be changed to a preferred field setting, allowing this field to be configured as any valuable incident label used by your organization. Direct typing of the Incident Box Alarm Number is also permitted.

INCIDENT COMMANDER

This field contains the Incident Commander's Name such as Cunningham, Jones, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the Incident Commander is also permitted.

INCIDENT RUN CARD

This field contains the Incident Run Card and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the Incident Run Card is also permitted.

LOCATION

This field allows the loading of pre-configured Incident Locations such as Grace Industries, Mercy Hospital, etc., and is an optional setting. The combobox drop down items contain the location files that are present on the hard drive of the computer. Location files can be created in the configuration area so that easy loading of locations is available. Direct typing of the location field is not permitted, i.e. all locations must be pre-configured.

LOCATION STREET NUMBER

This field contains the Incident address Street Number and is an optional setting. Direct typing of the Incident Street Number is required as the combination of numbers is too great to allow a combobox.

LOCATION STREET PREFIX

This field contains the incident address street prefix such as N.,S., E. W., etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the street prefix is also permitted.

LOCATION STREET

This field contains the incident address street name such as Maple, Oak, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the street name is also permitted.

LOCATION STREET SUFFIX

This field contains the incident address street suffix such as DR.,RD., AVE., etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the street suffix is also permitted.

LOCATION CITY

This field contains the incident address city such as Hermitage, New York, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the city is also permitted.

Operation Setup Definitions

Continued…

LOCATION STATE

This field contains the incident address State such as PA, OH, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the state is also permitted.

LOCATION ZIP CODE

This field contains the incident address zip code such as 16148, 44403, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the zip code is also permitted.

LOCATION COUNTRY

This field contains the incident address country such as USA, Canada, etc., and is an optional setting. The combobox drop down items can be customized in the configuration area so that easy entry is available. Direct typing of the country is also permitted.

CONFIGURE BUTTON

This button enters the configuration area of the In-Command software for setting up the preferences for comboboxes, system I.D and settings, etc. Note that once an incident is started, entering the configuration area is disabled.

SHOW UTILITIES BUTTON

This button displays the utilities menu bar across the top of the In-command setup screen. Available utilities such as Help, Pass Device Programming and File Maintenance are available from this menu bar. Note that once an incident is started, entering the configuration area is disabled.

START INCIDENT BUTTON

This button starts the incident and displays the main monitor screen of the In-Command Software. This is the main screen used when running an incident. Note that once an incident is started, entering the configuration and utilities area is disabled.

RETURN TO INCIDENT BUTTON

This button is invisible at startup and does not appear until an incident is started. If you return to the setup screen after the incident has started, the return to incident button replaces the start incident button and allows display of the main monitor screen once again. Note that once an incident is started, entering the configuration and utilities area is disabled.

STOP INCIDENT BUTTON

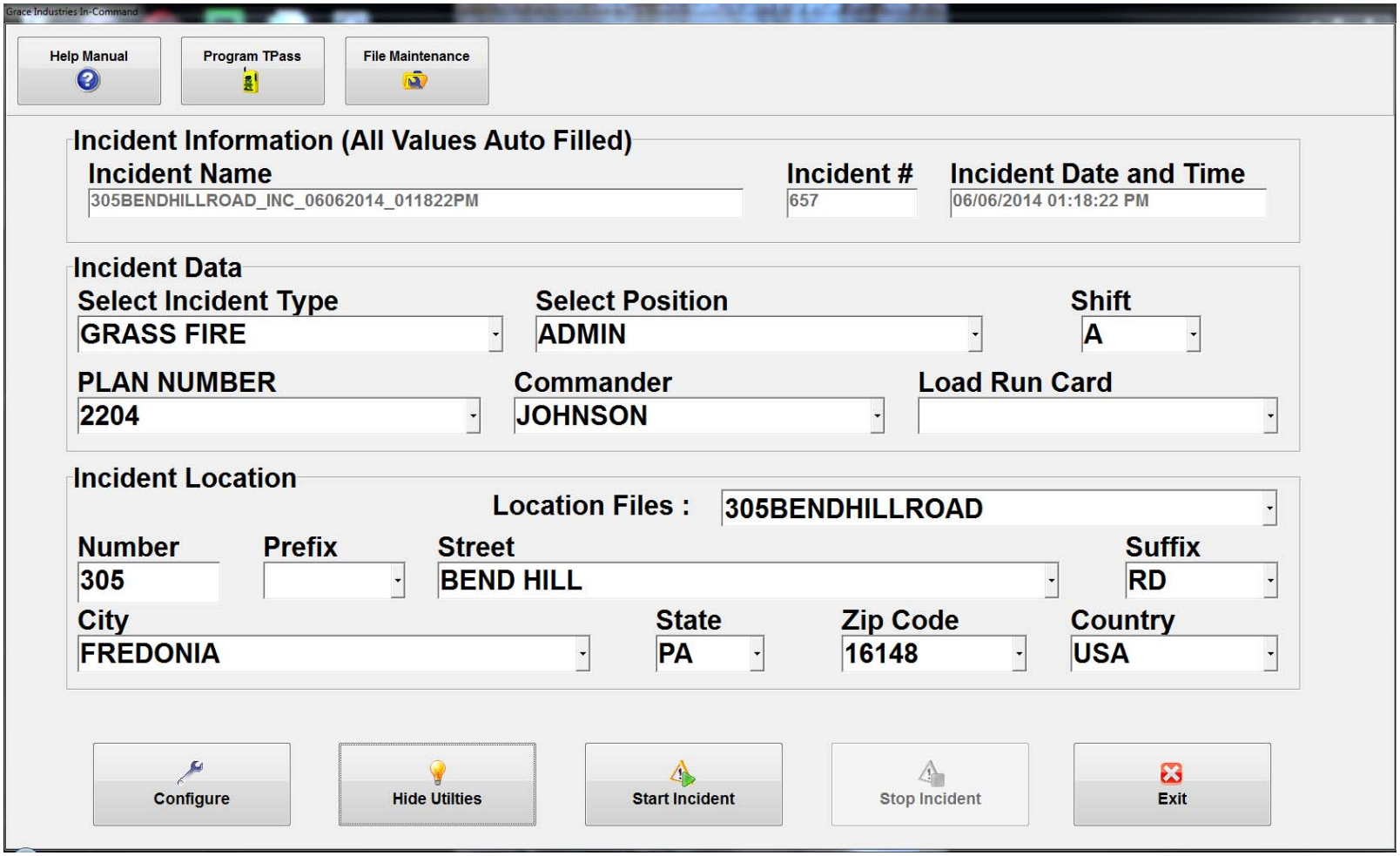
This button ends an incident and saves the incident information in a file on the hard drive specified by the Incident Name field. This is the method of stopping an incident that should be used for all active incidents monitored by the In-Command system.

EXIT BUTTON

This button exits the application and prompts to save an incident if one is currently active.

(continued…)

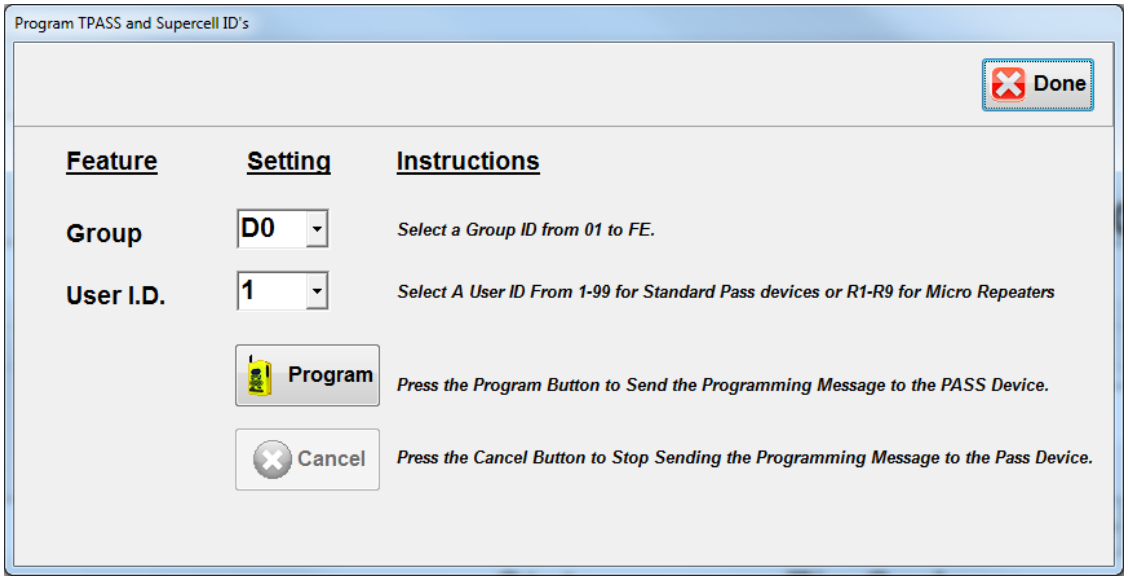
Utilities Bar



Utilities Functions

- Launch In-Command or Grace-Watch Help Manual
- Program SuperCELL or TPASS I.D. Numbers
- File Maintenance
  - Backup/Restore In-Command or Grace-Watch Settings, Import/Export Names, Messages, Etc.

Program SuperCELL or TPASS I.D. Numbers



- **Enter Group and User I.D.**
- **Turn SuperCELL or TPASS ON and place near the transmit Antenna**
- **Press Program until power-up chirp heard on device**

Configuration

Enter the Configuration Area by pressing the Configure Button on Operation Setup Screen. There are 4 main areas as described below.

- **INCIDENT SETUP**

  The Incident Setup section allows the configuration of the drop down boxes on the Operation Setup screen.

- **USER SETUP**

  The User Setup allows the configuration of the drop down edit boxes on the User Profile screen. This includes User Ranks, User Division, User SubDivision, and User. In addition, it allows the creation of a user name file specific to your system and TPASS/SuperCELL devices being used.

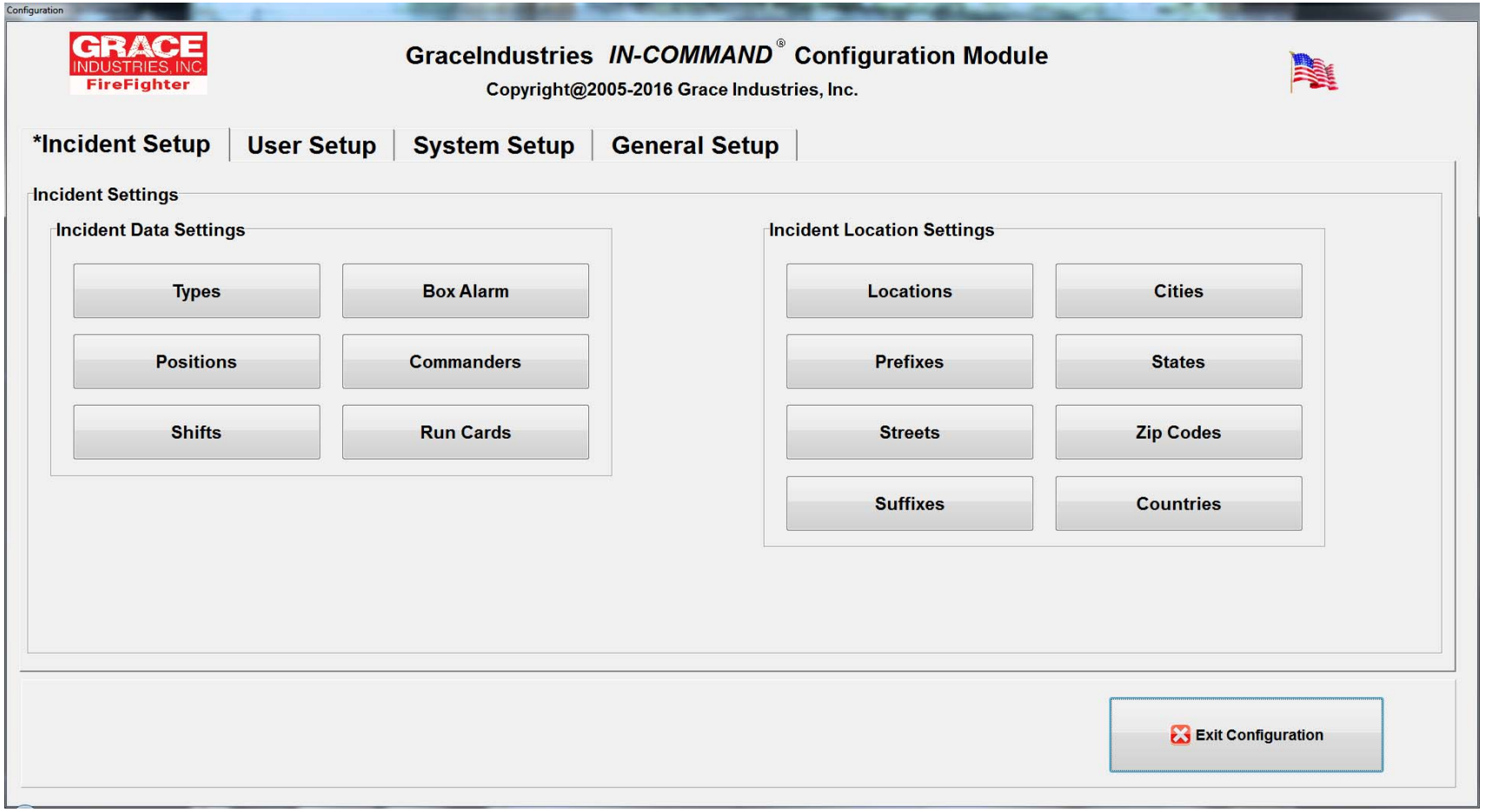
- **SYSTEM SETUP**

  The System Setup section allows the configuration of all the operation specific options on the system including System I.D., Aux I.D., Groups to allow receiving, etc.

- **GENERAL SETTINGS**

  This section allows some general operation settings to be changed such as Customer Logo displayed, additional utilities, Audio Alarms, etc.

Configuration Screen



Setting The System ID

- The first operation that should be performed is setting the proper System ID for the In-Command System
  - NOTE: System ID must match System ID of SuperCELL and TPASS for units to be displayed and monitored
- Click the System Setup tab near the top of the screen to access the System Settings Dialog

System I.D. Explanation

System I.D. = 51 most significant digit->5 1<-least significant digit

- **The system I.D. of the In-Command Software sets the receive parameters for the MX900-H Unit allowing reception of TPASS messages from users within a block of 16 groups, 1-99 users per group plus 9 Micro Repeaters per group. A system I.D. is a Hexadecimal Number and can be split into two distinct portions, the most significant digit and the least significant digit. The above example shows this.**
- **Note the most significant digit - 5. This indicates the block of 16 groups that can be received by the software, i.e. any TPASS device with a group I.D. of 5 as it's most significant digit will be received by the MX900-H. Using the hexadecimal numbering system, the system block consists of the groups 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 5A, 5B, 5C, 5D, 5E, 5F.**

System I.D. Explanation

Continued

System I.D. = 51 most significant digit->5 1<-least significant digit

- **Each group has 1-99 users (TPASS and SuperCELL) and 9 Micro-Repeaters available.**
  - **Example TPASS and SuperCELL ID range would be from 5101 to 5199**
  - **Repeater ID range would be from 51R1 to 51R9**
  - **Repeaters may not be programmed in the ID range of 5101 to 5199 or 01 through 99**
- **This allows for 1728 total users to be programmed for monitoring within the system block.**
- **By using Aux ID's, 1728 additional users can be monitored for each additional auxiliary id added. Up to 14 Aux ID's can be added to make it possible to monitor a total of 25,920 units.**

System I.D. Explanation

Continued

- The least significant number in the system I.D. indicates the system group, or the sub group within the system block with the highest priority. All I.D.s within the system group will be displayed before the other users in the remaining groups that have an equal priority.
- Typically a fire department will assign all TPASS devices to the system group and use the additional 15 groups for mutual aid monitoring of other departments.
- In larger applications, the system group may represent a battalion and the other groups containing the other battalions in the department.

Aux I.D. Explanation

- **You can set the system up to monitor additional ID blocks besides the System block. Each additional block is referred to as an Aux ID and up to 14 of these can be added. Each Aux ID that you enable can allow for another 16 groups of 99 users and 9 Micro Repeaters per group, or 1728 additional users monitored.**

- **As an example, we could choose an aux block ID of 60, with the most significant digit as a 6, which indicates the aux block. The aux groups available would be 60,61,62,63,64,65,66,67,68,69,6A, 6B,6C,6D,6E and 6F. These users would be sorted below the system block groups for users with equal priority.**

- **Each additional Aux block added would have less priority than the previously added Aux Block. So the order that they are added determines the priority on the monitoring screen.**

Hexadecimal Numbers Explanation

- The Hexadecimal (or Hex) numbering system is an alternative to the decimal numbering system
- It allows values from 0 to 15 to be represented by a single digit
- This feature is very useful in computer systems because it is evenly divisible by 8, which is the base size for all computer data
- The In-Command System uses a hexadecimal number to represent the System and Aux ID values because the 16 groups within the system or aux block can be represented by a single digit hexadecimal number
- See the following example counting from 0 to 31 using decimal notation and the equivalent hexadecimal notation below it

Hexadecimal Numbers Explanation

Continued

- **decimal number**

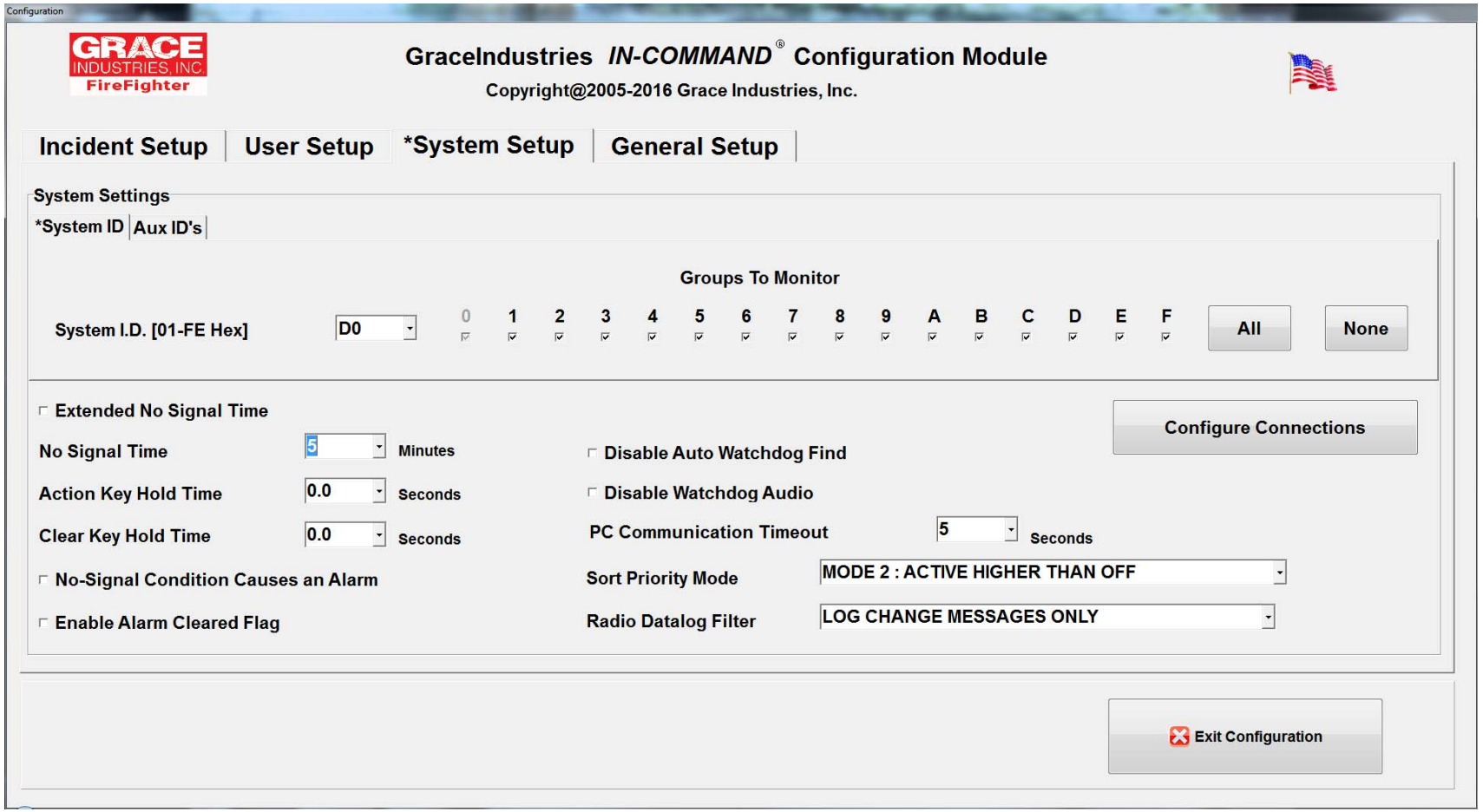
  0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- **hex equivalent**

  0 1 2 3 4 5 6 7 8 9 A B C D E F 10 11 12 13 14 15 16 17 18 19 1A 1B 1C 1D 1E 1F

- **Note that number 0-15 can be represented by a single digit**
- **This feature of the hex numbering system allows a number up to 255 (hex FF) to be represented by only two digits as well, once again an advantage in computer-based applications**

System Settings Dialog



System Settings

- On the System ID Tab, Set the System ID
- Leave Groups To Monitor Checkbox Checked.
- On the Aux ID's Tab, leave Enable Aux ID's unchecked.
- Leave No-Signal Setting to 5 Minutes
- Leave the Action and Clear Key Hold Times Set a .5 and 1 second
- Leave No-Signal Causes Alarm, Enable Alarm Clear Flag, Sort Priority Mode and Radio Data Log Filter set to default values
- Com Port will automatically be set when computer is plugged into the MX900-H
- Use the Configure Connections button to manually configure com ports. See Configure Connections below.

System Settings

Continued…

The following are descriptions of each of the fields on the System Setup screen:

SYSTEM ID TAB \ SYSTEM ID

This field sets the System I.D. for the In-Command system.

SSYSTEM ID TAB \ GROUPS TO MONITOR

These check boxes enable the receiving of TPASS messages for an entire group within the system block.

AUX ID's TAB \ ENABLE AUX ID's CHECK BOX

This check box enables or disables the configuration of Aux ID's for the In-Command Software.

AUX ID's TAB \ AVAILABLE

This field list the pool of available id's that can be used as Aux ID's.

AUX ID's TAB \ ASSIGNED

This field lists the assigned aux ids. Use the arrow buttons to managed id's between these two fields.

AUX GROUPS TO MONITOR

These check boxes enable the receiving of TPASS messages for an entire group within the aux id block that is currently selected in the assigned field.

EXTENDED NO SIGNAL TIMES

This check box sets the no signal time range from the default of 3-60 minutes to an extended time of 1-24 hours.

NO SIGNAL TIME

Set the amount of time that a TPASS radio signal must be received in to avoid a no-signal flag from being activated.

ACTION KEY HOLD TIME

This field allows setting of the action key hold time required to perform a TPASS command from the monitor screen.

CLEAR KEY HOLD TIME

This field allows setting of the clear key hold time required to perform a TPASS clear of a status image from the monitor screen.

NO-SIGNAL CONDITION CAUSES AN ALARM

Check this box to force an alarm when a no signal occurs.

ENABLE ALARM CLEARED FLAG

This check box checked causes a no signal flag status box to appear when an alarm is cleared.

PC COMMUNICATION TIMEOUT

This allows you to adjust the timeout setting between the PC and the MX900-H or other receiver.

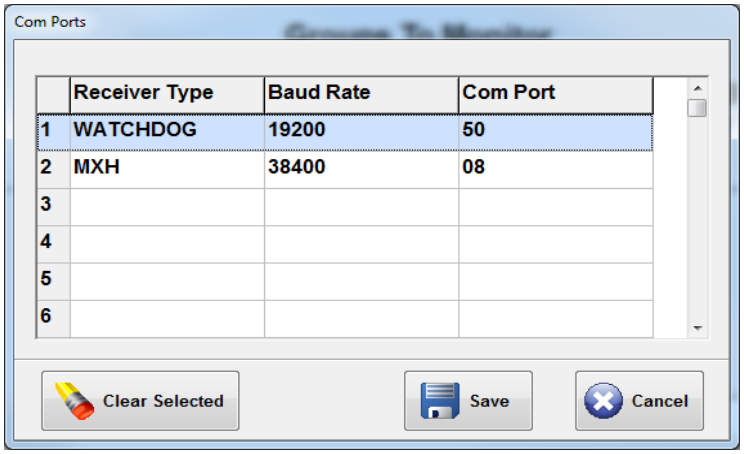
SORT PRIORITY MODE

This combo box allows the sorting of users on the monitor screen to be modified to place users in OFF mode to be sorted above users in online only mode.

RADIO DATALOG FILTER

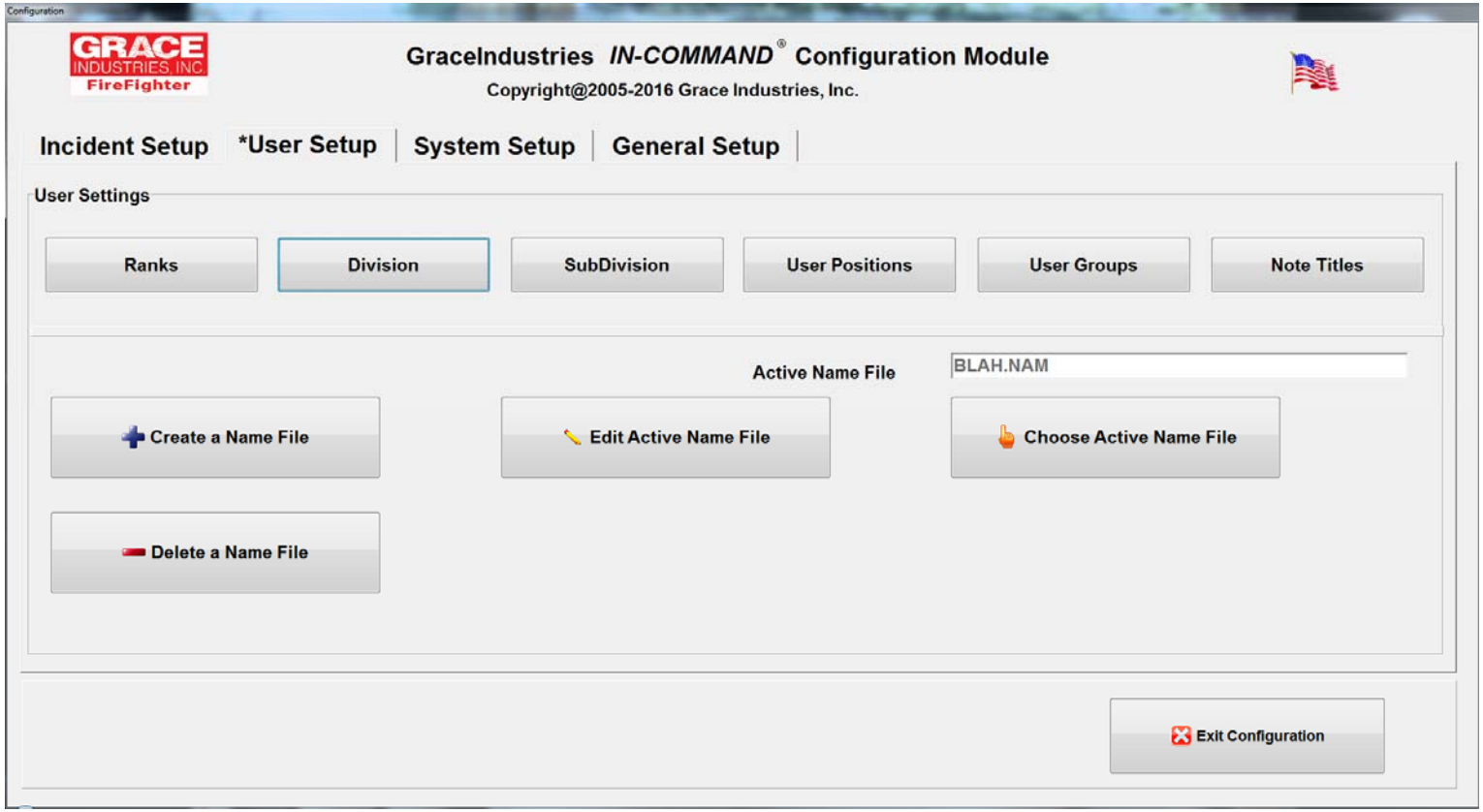
This combo box allows the selection of logging either all TPASS messages or only change of status messages in the radio data log.

Configure Connections



- **RECEIVER TYPE**
  - Dropdown used to select type of receiver for the connection.
- **BAUD RATE**
  - Dropdown used to select baud rate.
    - Select 38400 when using the MXH.
    - Select 19200 when using the WATCHDOG.
- **COM Port**
  - Dropdown used to select from available port numbers.
- **Clear Button**
  - Used to clear the selected row.

User Setup Screen

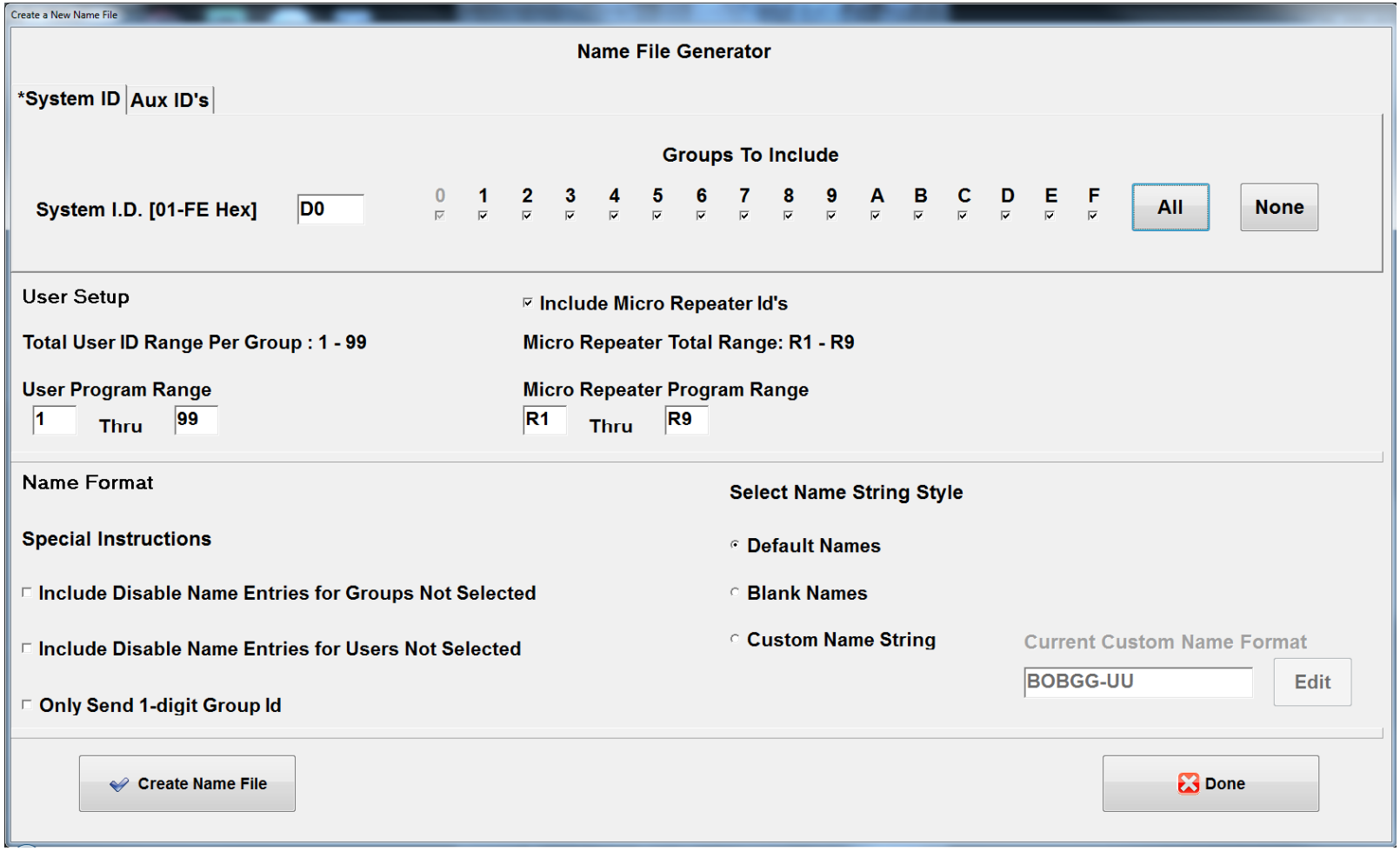


- **Press the User Setup Tab to Access the User Setup Area**

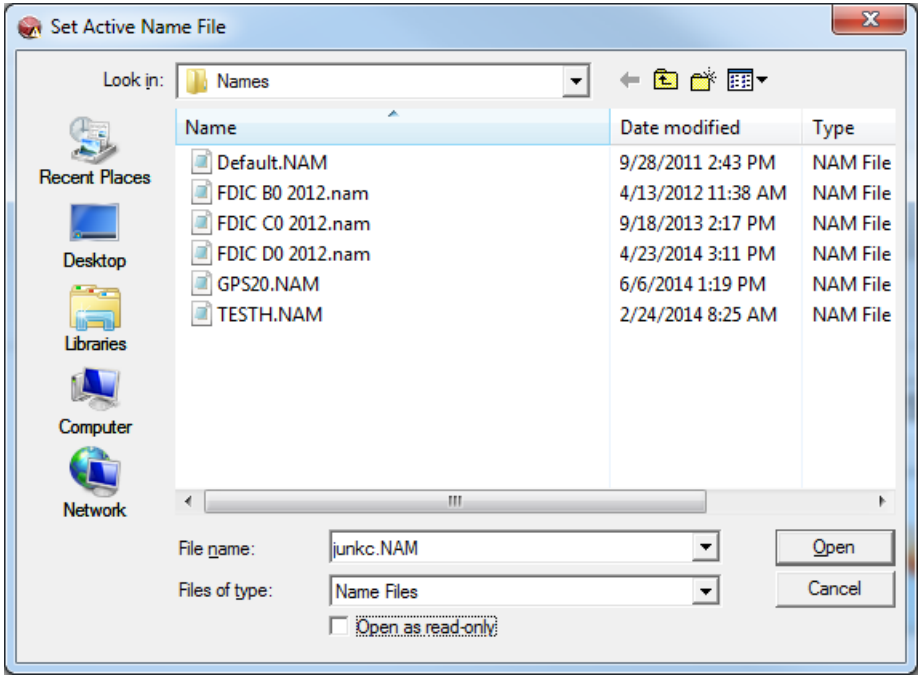
Creating a Name File

- Press the Create a Name File Button to Access the Name File Creator Wizard
- Enter the File Name, e.g. Acme Iron Works
- Notice the System ID is set and cannot be changed from this screen
- Select Groups to include in the Name File
- Set Range of Users in Each Group
- Enable Micro Repeater ID's In Each Group
- Set Range of Micro Repeaters In Each Group
- Leave 3 Check Boxes on Bottom Left Unchecked
- Select Default Names, e.g. 01-01
- Press Create Name File Button
- Press Done When Finished

Name File

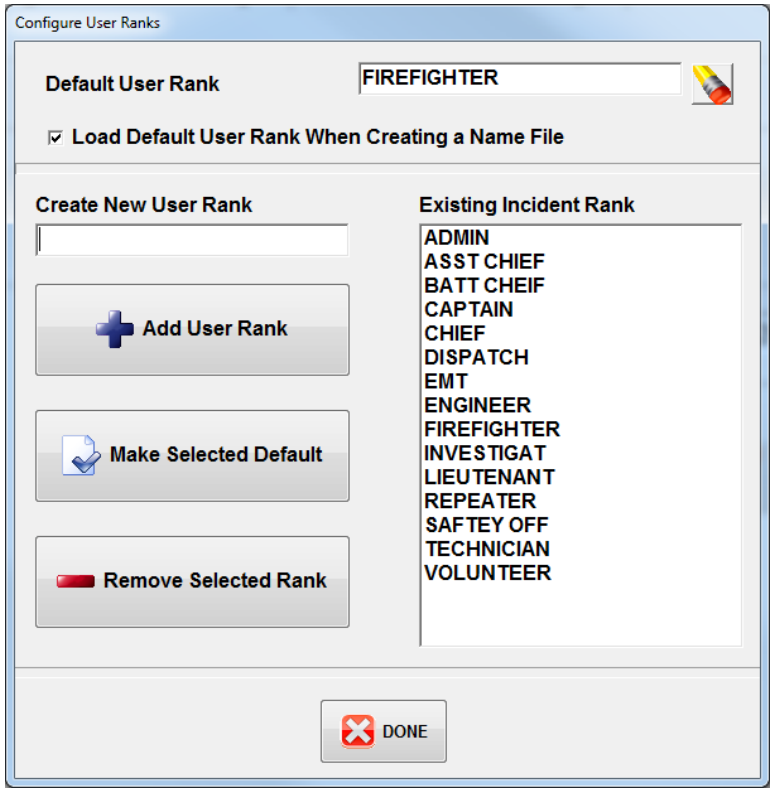

Create a New Name File
Name File Generator
*System ID
Aux ID's
Groups To Include
System I.D. [01-FE Hex]
D0
0 1 2 3 4 5 6 7 8 9 A B C D E F
All
None
User Setup
Include Micro Repeater Id's
Total User ID Range Per Group : 1 - 99
Micro Repeater Total Range: R1 - R9
User Program Range
1
Thru
99
Micro Repeater Program Range
R1
Thru
R9
Name Format
Select Name String Style
Special Instructions
Default Names
Include Disable Name Entries for Groups Not Selected
Blank Names
Include Disable Name Entries for Users Not Selected
Custom Name String
Current Custom Name Format
BOBGG-UU
Edit
Only Send 1-digit Group Id
Create Name File
Done

Setting the Active Name File



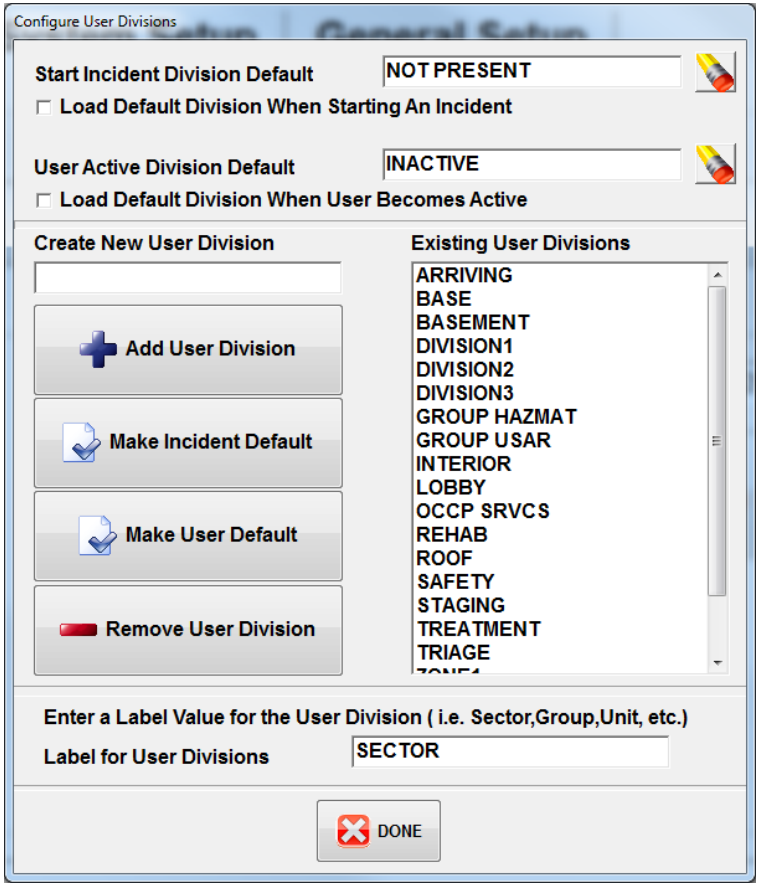
- **The Name File just created must now be set to the Active Name File so that is loaded when an incident is started**
- **Press the Choose Active Name File Button and select the file just created**

Listing the Available User Titles



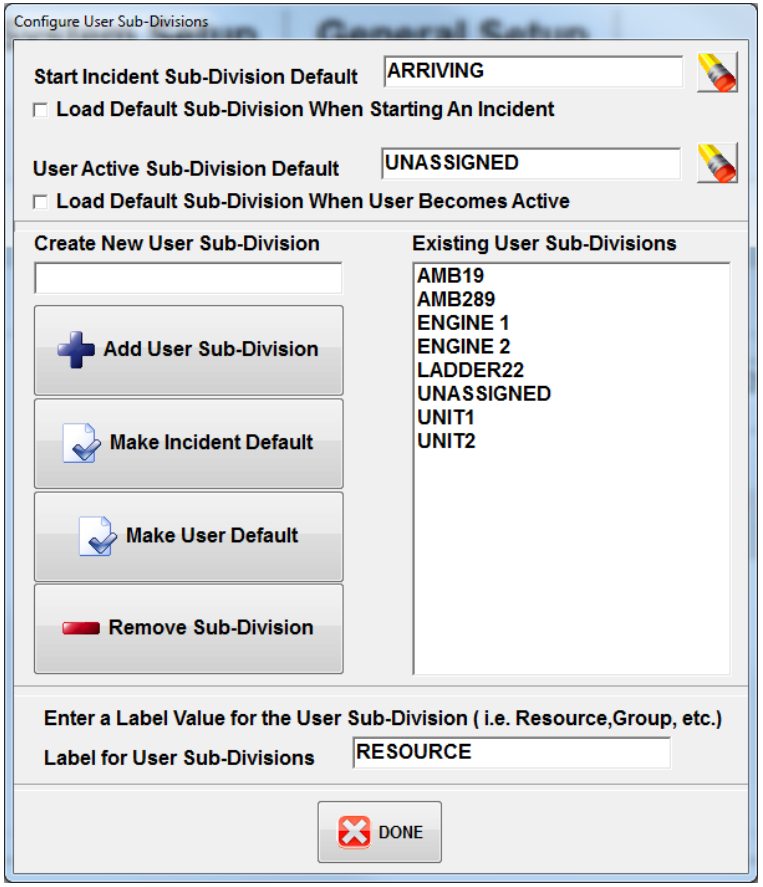
- Press the User Ranks Button to Edit User Title
- Enter a Title into the Create New Box and Press Add User Title
- The Title Will Be Added to the Dialog Box on the Right
- Highlight a Title and Press Remove to Remove a Title from the List
- Highlight a Title and Press Make Default to Make the Selected Title the Default
- Check Load Default Title to Load this Rank as the Default when a name file is created
- Press Done when finished

Setting the User Divisions



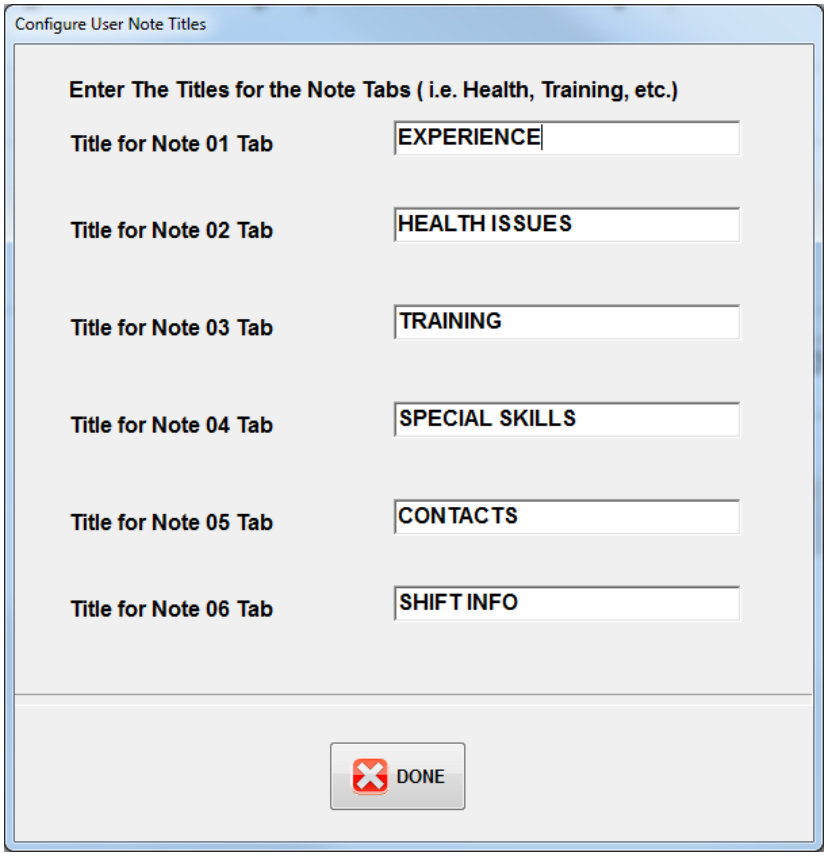
- Press the User Divisions Button to Edit User Divisions
- Enter a Division into the Create New Box and Press Add User Division
- The Division Will Be Added to the Dialog Box on the Right
- Highlight a Division and Press Remove to Remove A Division from the List
- Highlight a Division and Press Make Default to Make the Selected Division the Default
- Check Load Default Checkbox to Load this Division as the Default when a name file is created
- Enter the Custom Label to use for Divisions, e.g. Sector, Unit, etc.
- Press Done when finished

Setting the User Sub-Divisions



- Press the User Sub-Divisions Button to Edit User Sub-Divisions
- Enter a Sub-Division into the Create New Box and Press Add User Sub-Division
- The Entry Will Be Added to the Dialog Box on the Right
- Highlight an Entry on the right and Press Remove to Remove a Sub-Division from the List
- Highlight an Entry and Press Make Default to Make the Selected Entry the Default
- Check Load Default Checkbox to load the Default when a name file is created
- Enter the Custom Label to use for Sub-Divisions, Resource, Room, etc.
- Press Done when finished

Setting the User Note Titles

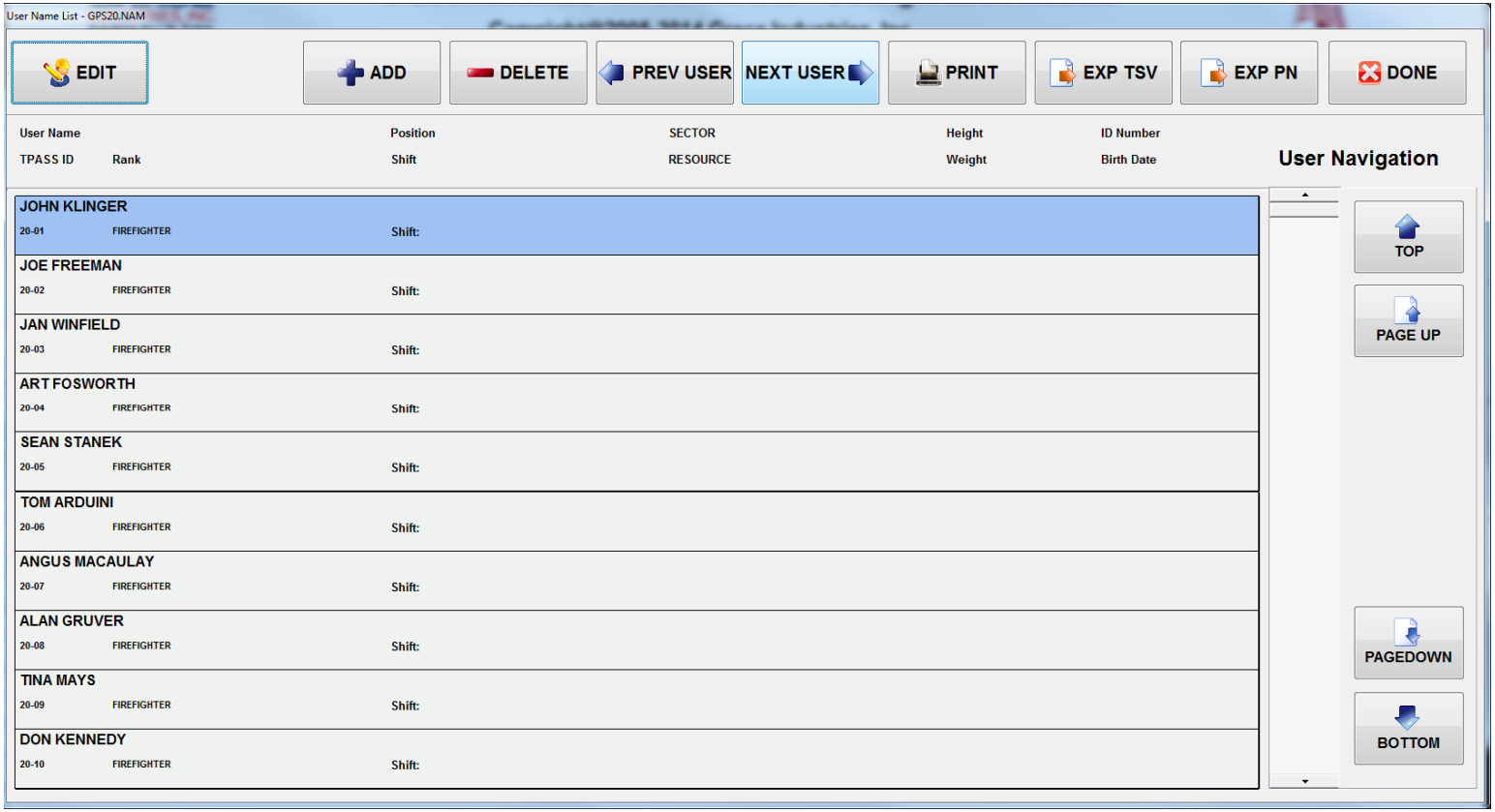


- **Press the Note Titles Button to Edit User Note Titles**
- **Enter the Titles for Each User Notes Tab to be displayed on the User Profile Screen**
- **Press Done when Finished**

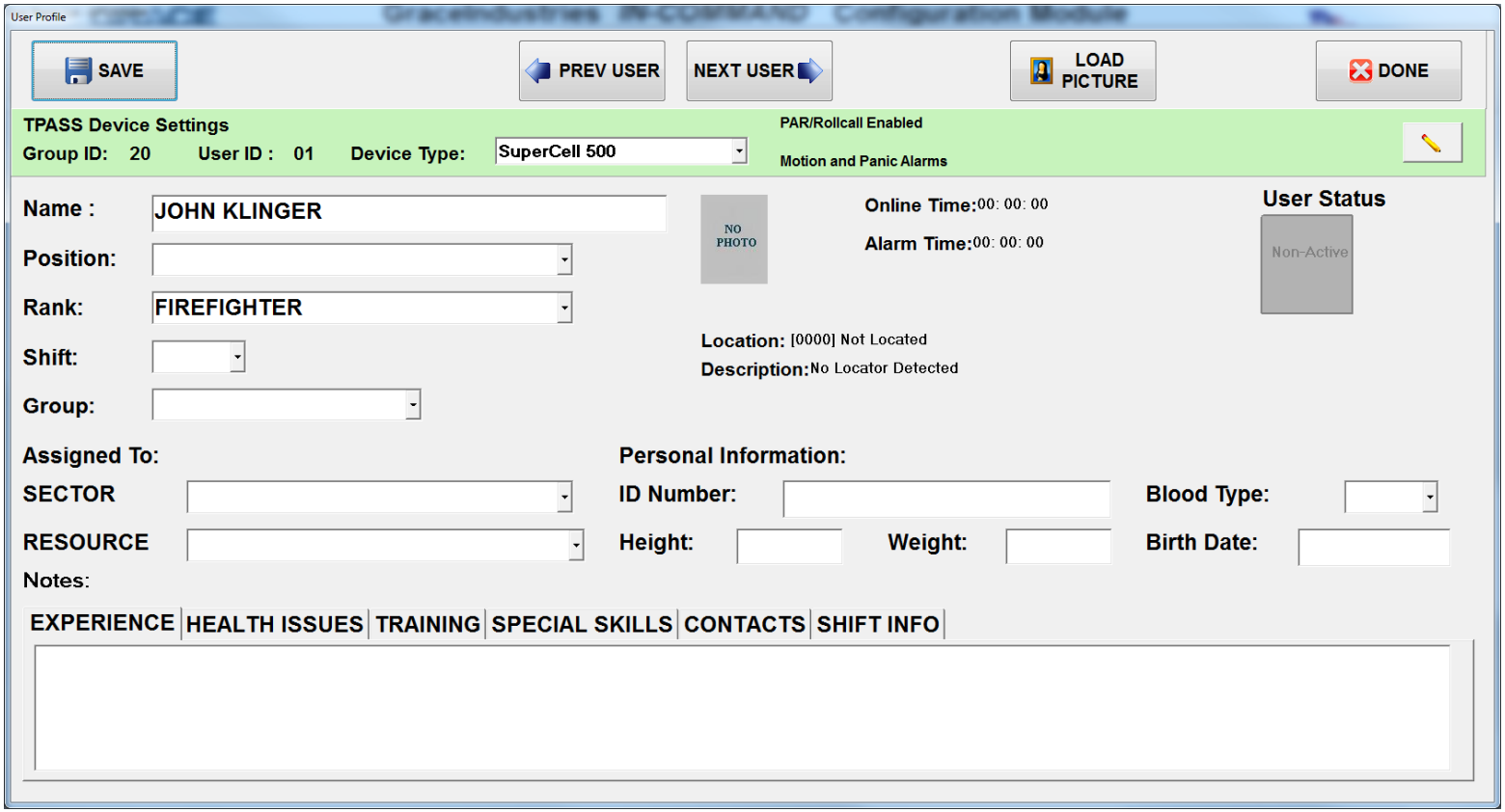
Editing the Name File Information

- **Press the Edit Name File Button from the User Setup Screen to Access the Edit Names Dialog**
- **Double-Click a user name or Highlight the User and Press the Edit Button to view the User Profile Dialog**
- **Enter Information and Press Save to Save the Changes**
- **Continue with each User until all user information has been entered using the next and previous buttons to step through the name file**

Edit Names Dialog



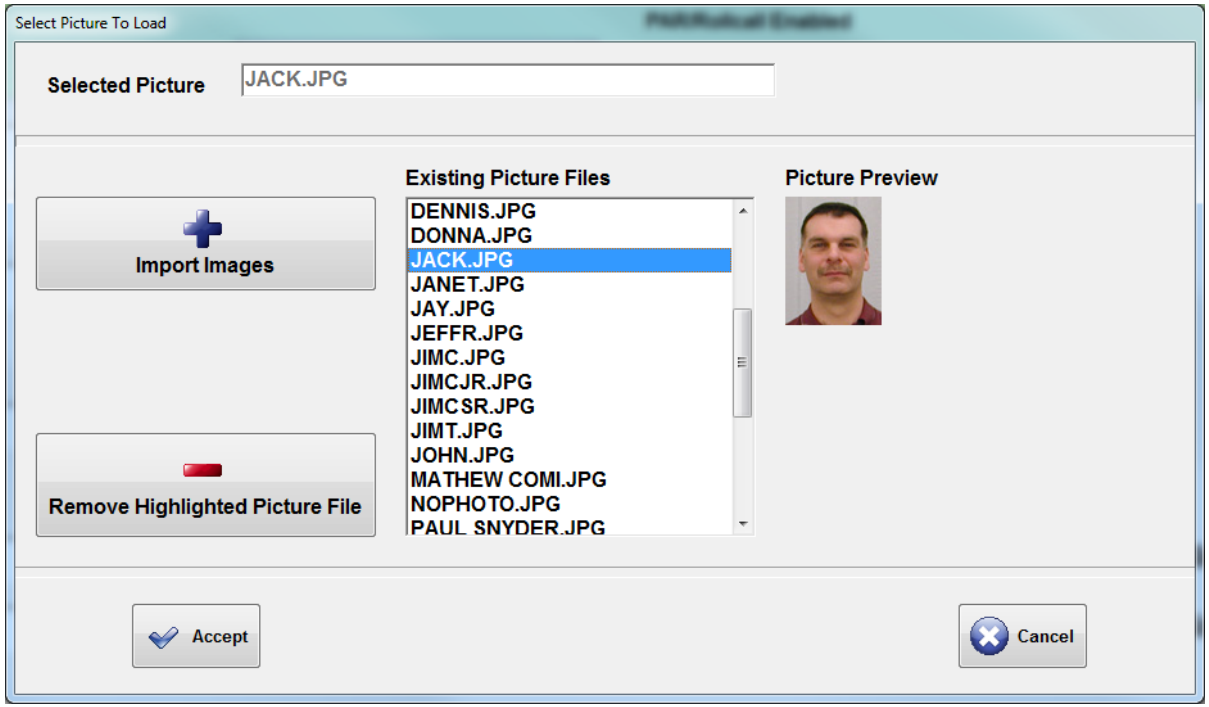
The User Profile Dialog



Editing the User Profile

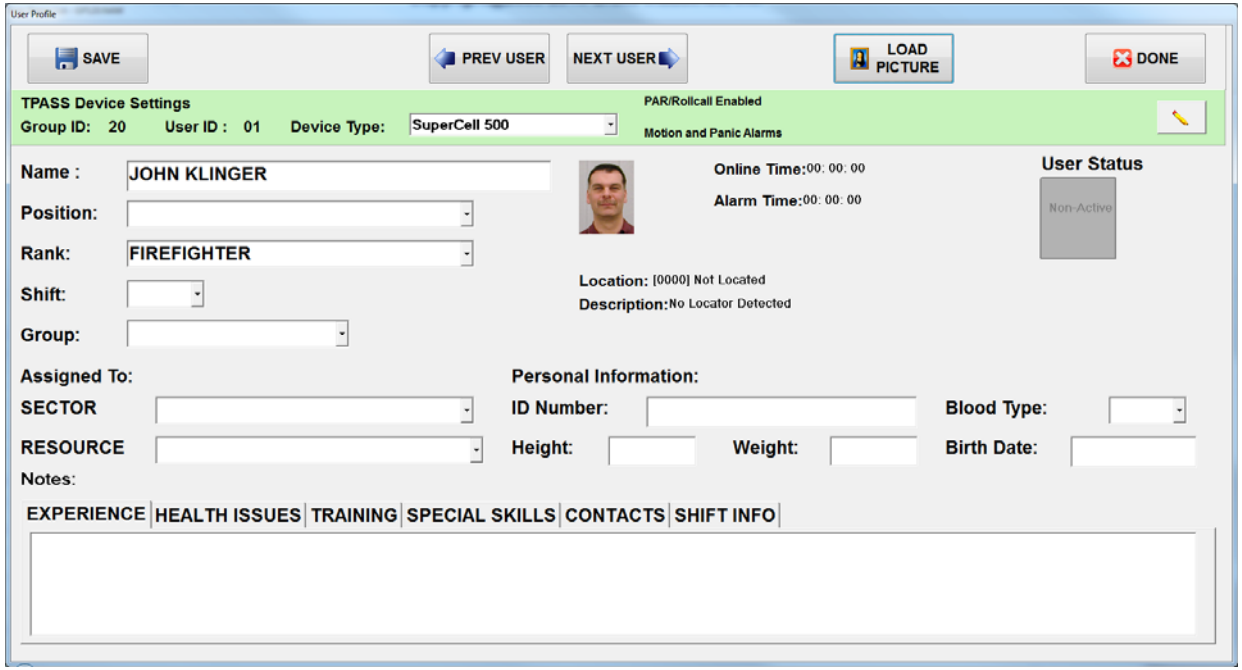
- Enter in User Name, Title, and Personal Information fields as needed
- Select the device type to be displayed.
- Add a User Picture if Desired - for best results use a picture size is 75 by 100 pixels
- Note that pictures must be added to the <Program Path>\UserImages Folder. An import button is provided to make this process easier.
- Add Notes To Each User Notes Tabbed Area
- Each Note may be up to 255 characters in length

Adding a User Picture



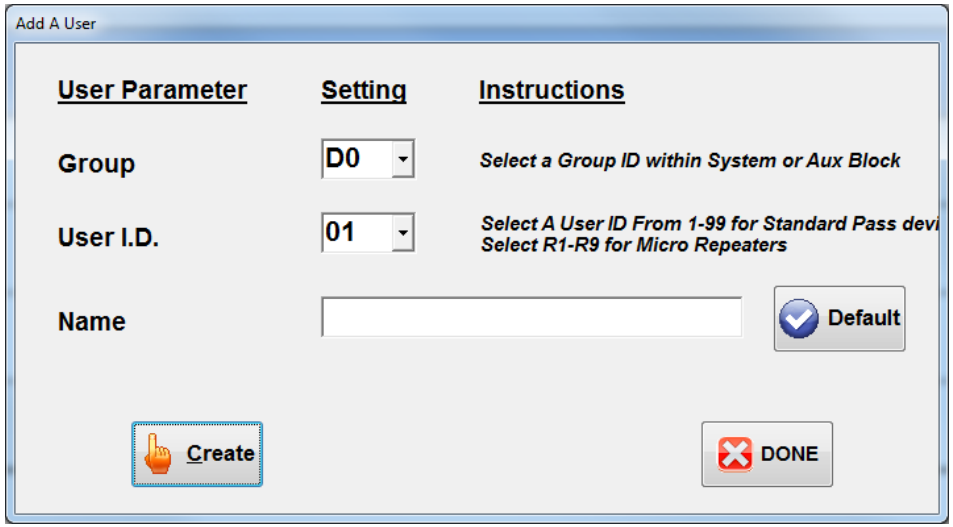
- Double-click the Picture image or press the Picture button from the User Profile Screen
- Highlight the Picture Desired and press select Highlighted Picture
- Press the Accept Button to load the picture into the profile

Editing User Notes



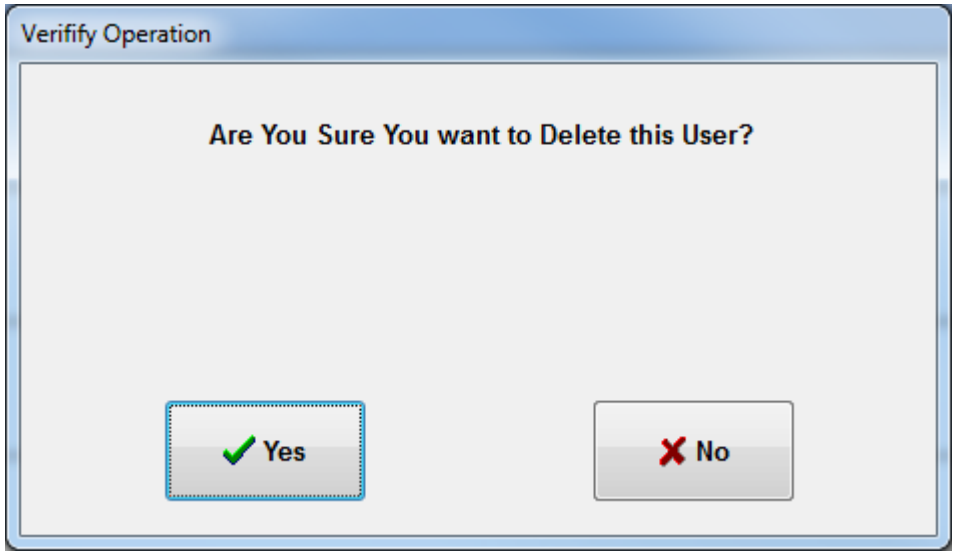
- **Click on Each Note Tab to Reveal the Memo Area for Each User Note Memo**
- **Enter information into each note memo**
- **Press Save when Complete**

Adding a User to a Name File



- Users May Be Added to the Name File from the Edit Name File List screen by pressing Add User
- Enter the Group and User I.D. for the User desired
- Press Default to automatically create a default name entry or enter the name manually
- Press the Create Button
- If the Name Exists, a warning will be issued; otherwise the name will be created in the user list
- Press Done when Complete

Deleting a User from a Name File



- Users May Be deleted from the Name File from the Edit Name File List screen by pressing Delete User
- A Confirmation Window will appear to insure deletion is desired
- Press Yes to delete the Name

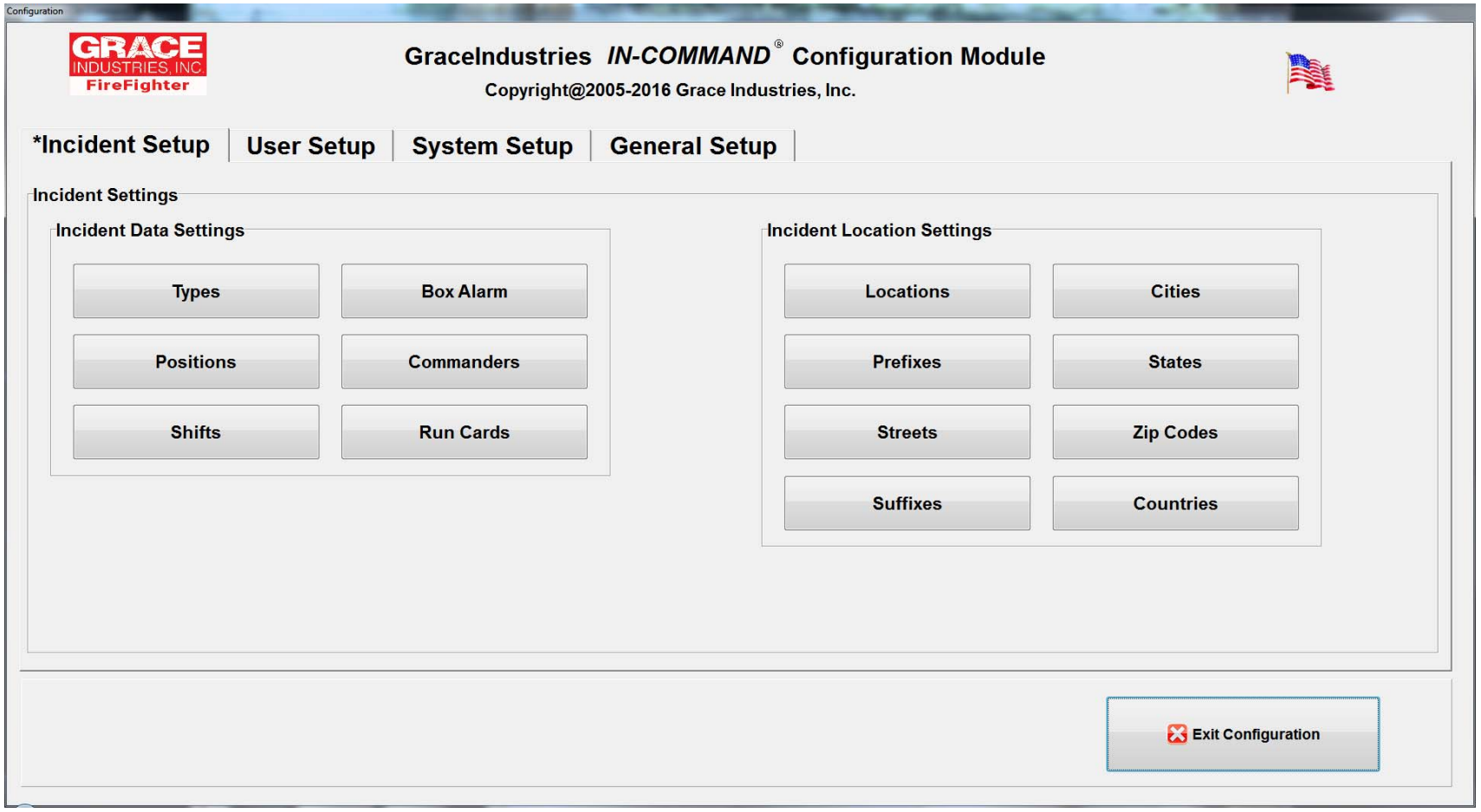
Deleting a Name File

- **Name Files May Be Deleted from the System using the Delete Name File Button on the User Setup Screen**
- **Press the Delete File Button and select the file to be deleted**
- **Press Yes to confirm and delete the file**

Prepared to Monitor Users

- After completing the above procedures, the system is able to monitor the TPASS or SuperCELL devices assigned to users
- The five critical steps to prepare the software for use with SuperCELL or TPASS devices and the MX900-H are:
  1. Set the System ID
  2. Set the Receiver Type to MX900-H
  3. Set the Com Port for the MX900-H Communications
  4. Create a Name file based on our System ID with the correct range of user ID's representing our SuperCELL or TPASS devices
  5. Make this created Name file the Active Name File
- Once these Five Steps are complete, the system can monitor TPASS or SuperCELL devices
- Press the Save Changes and Exit Button to Save this configuration and return to the operation setup screen if so desired

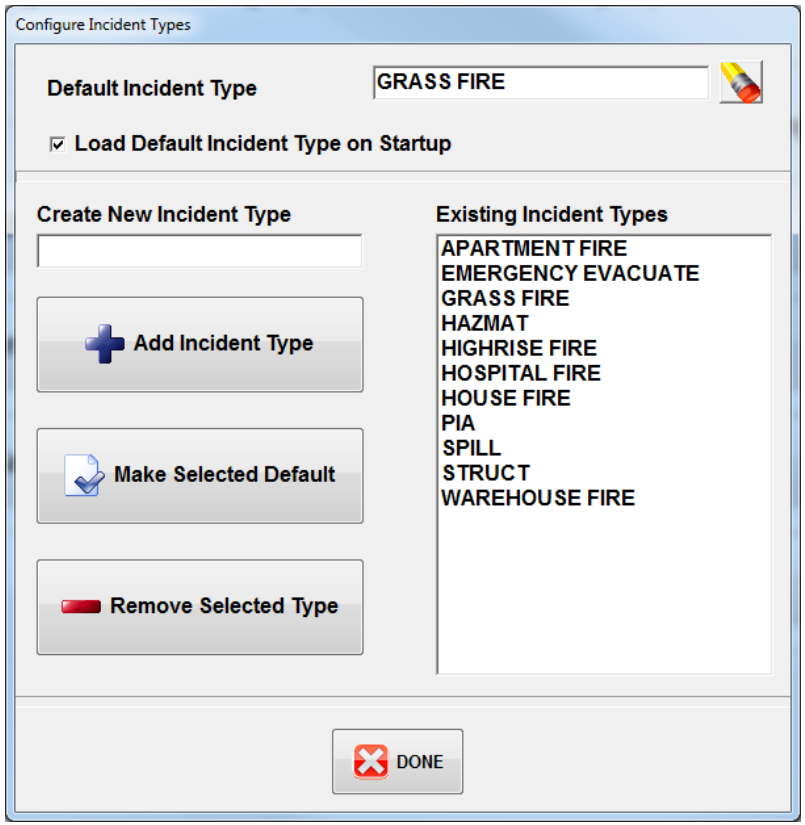
Configuring Incident Settings



Entering Incident Configuration

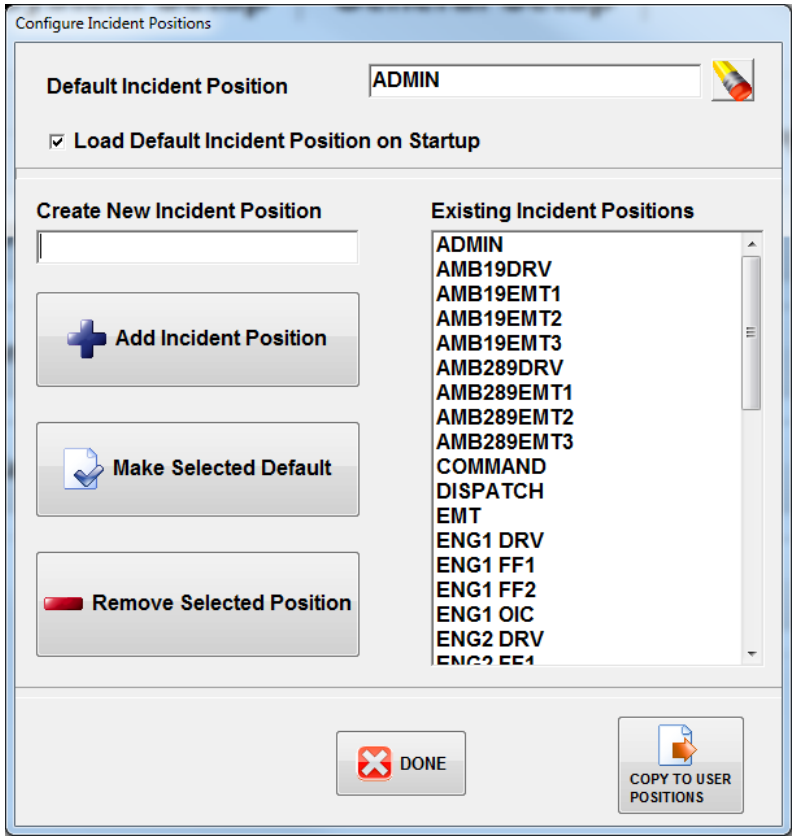
- Press the Incident Settings Tab from the Configuration Area
- There are two basic sub-categories:
  - **Incident Data Settings**
  - **Incident Location Settings**
- Press Each Button to Access the area to configure

Configuring Incident Types



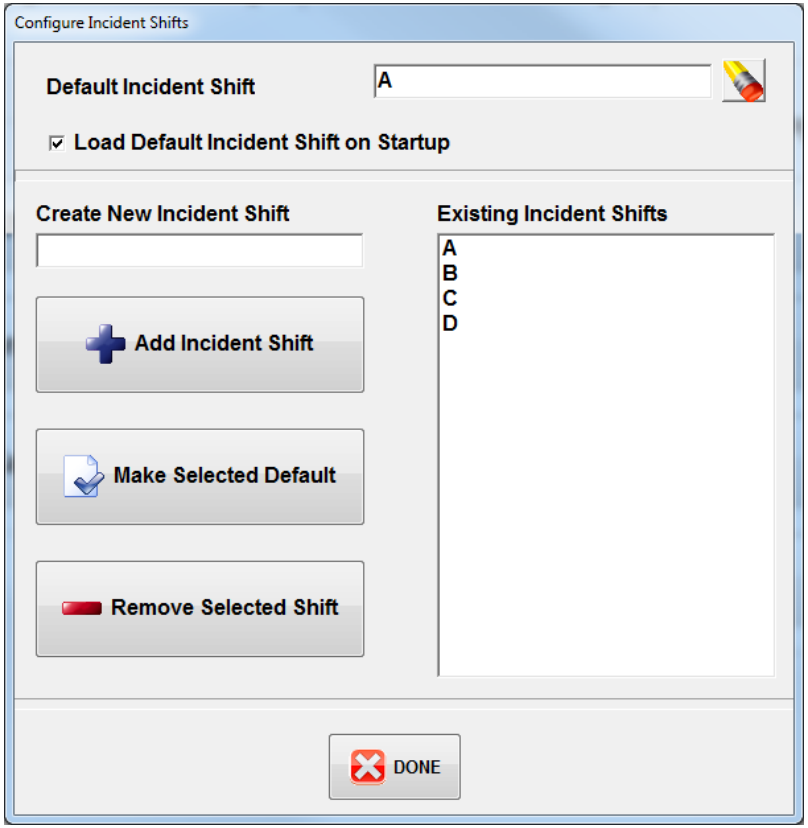
- Press the Incident Types Button to Edit Incident Types
- Enter a Type into the Create New Box and Press Add Incident Type. The Type Will Be Added to the Dialog Box on the Right
- Highlight a Type and Press Remove to Remove a Type from the List
- Highlight a Type and Press Make Default to Make the Selected Type the Default
- Check Load Default Type to Load this Type as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Positions



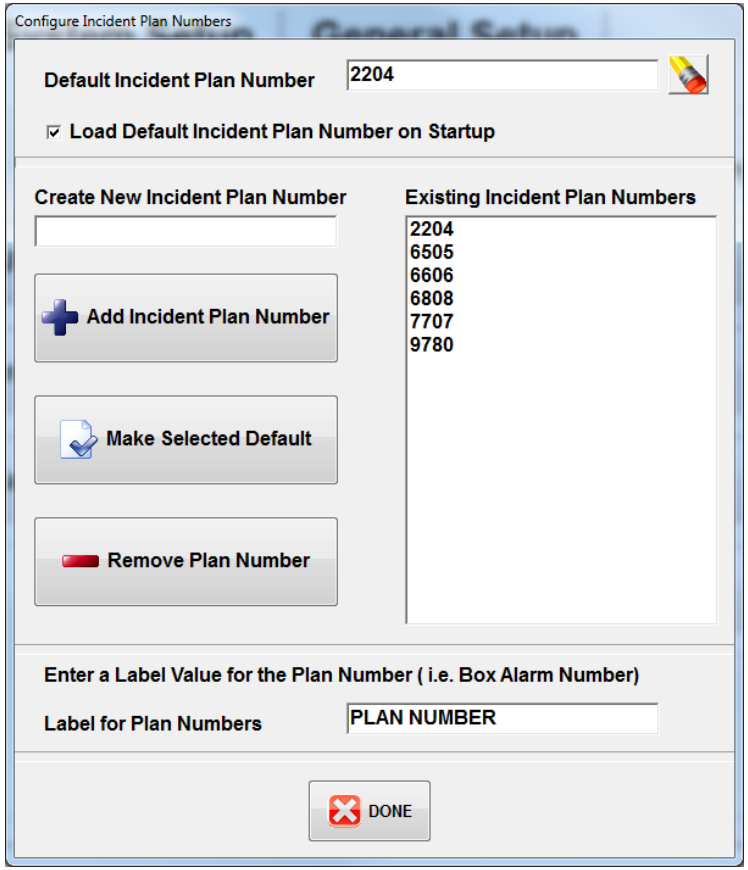
- Press the Incident Positions Button to Edit Incident Positions
- Enter a Position into the Create New Box and Press Add Incident Position-The Position Will Be Added to the Dialog Box on the Right
- Highlight a Position and Press Remove to Remove a Position from the List
- Highlight a Position and Press Make Default to Make the Selected Position the Default
- Check Load Default Position to Load this Position as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Shifts



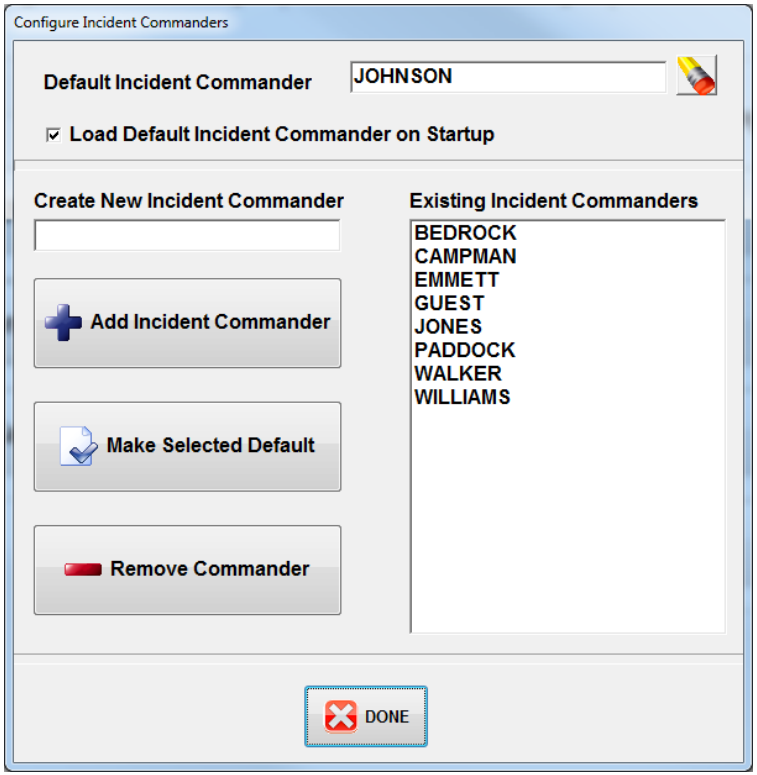
- Press the Incident Shifts Button to Edit Incident Shifts
- Enter a Shift into the Create New Box and Press Add Incident Shift-The Shift Will Be Added to the Dialog Box on the Right
- Highlight a Shift and Press Remove to Remove a Shift from the List
- Highlight a Shift and Press Make Default to Make the Selected Shift the Default
- Check Load Default Shift to Load this Shift as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Plan Numbers



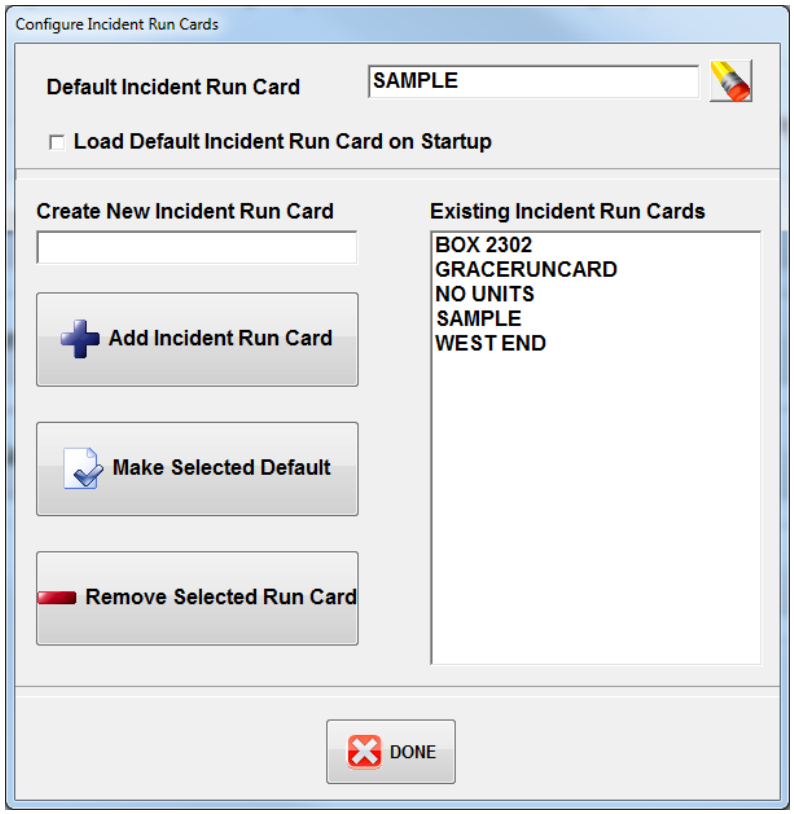
- Press the Plan Numbers Button to Edit Plan Numbers
- Enter a Plan Number into the Create New Box and Press Add Plan Number-The Entry Will Be Added to the Dialog Box on the Right
- Highlight an Entry and Press Remove to Remove A Plan Number from the List
- Highlight an Entry and Press Make Default to Make the Selected Plan Number the Default
- Check Load Default Checkbox to Load this Plan Number as the Default on the operation setup screen when In-Command is started
- Enter the Custom Label to use for Plan Numbers, e.g. Box Alarm, etc.
- Press Done when finished

Configuring Incident Commanders



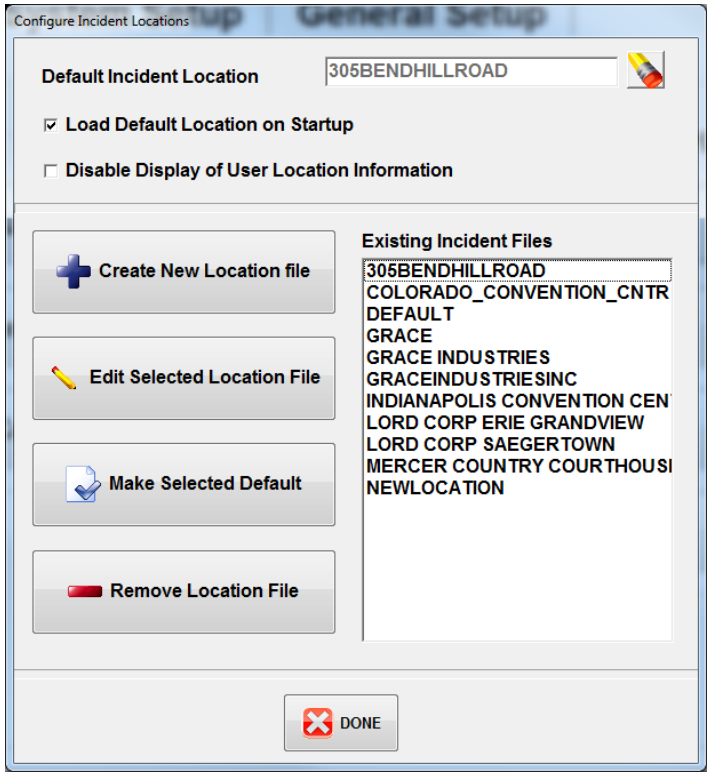
- Press the Incident Commanders Button to Edit Incident Commanders
- Enter a Commander into the Create New Box and Press Add Incident Commander-The Commander Will Be Added to the Dialog Box on the Right
- Highlight a Commander and Press Remove to Remove a Commander from the List
- Highlight a Commander and Press Make Default to Make the Selected Commander the Default
- Check Load Default Commander to Load this Commander as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Run Cards



- Press the Incident Run Cards Button to Edit Incident Run Cards
- Enter a Run Card into the Create New Box and Press Add Incident Run Card-The Run Card Will Be Added to the Dialog Box on the Right
- Highlight a Run Card and Press Remove to Remove a Run Card from the List
- Highlight a Run Card and Press Make Default to Make the Selected Run Card the Default
- Check Load Default Run Card to Load this Run Card as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Locations

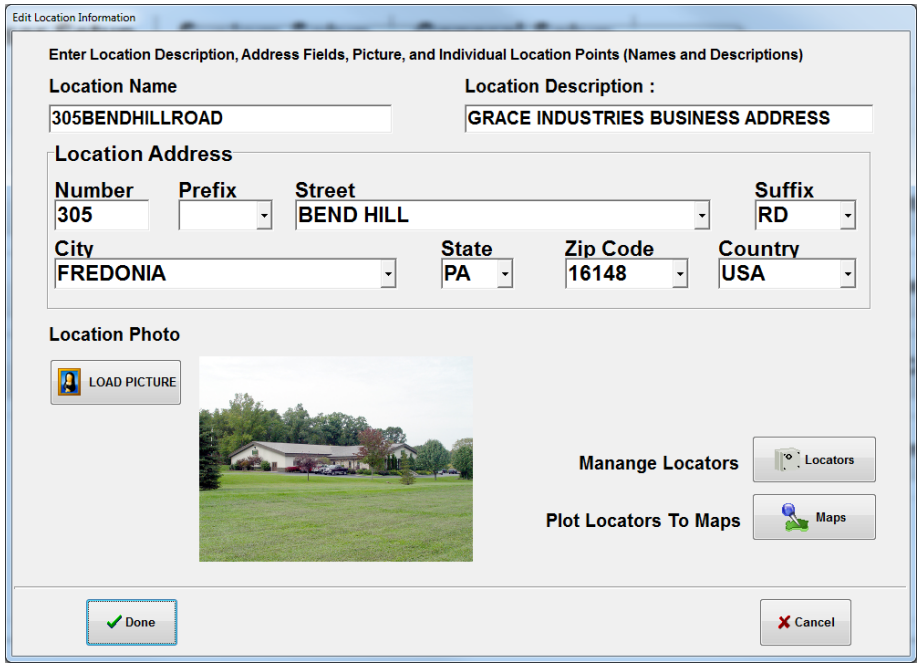


The number of Location files possible is virtually unlimited

- **limited by available hard drive space**

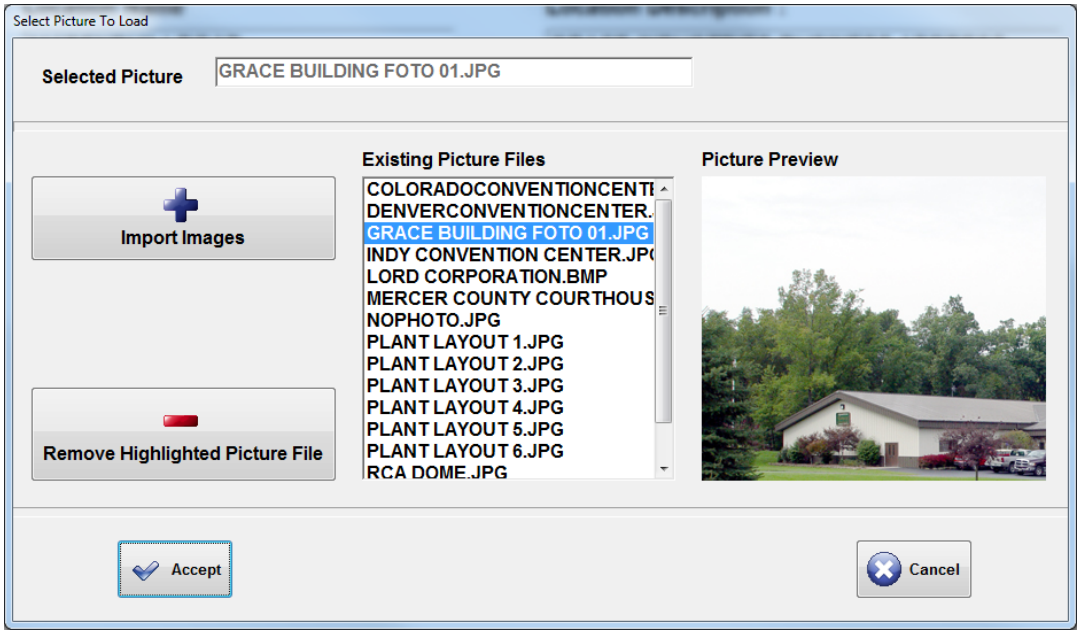
- **Press the Locations Button to Create Incident Locations**
- **Location stores a Location's Address information and can be retrieved as a file**
- **Press Create new Location to Create a Location File or Edit to Edit a Highlighted Location**
- **Highlight a Location and Press Remove to Remove a Location from the List**
- **Highlight a Location and Press Make Default to Make the Selected Location the Default**
- **Check Load Default Location to Load this Location on the Operation Setup Screen when In-Command is started**
- **Press Done when finished**

Creating a Location



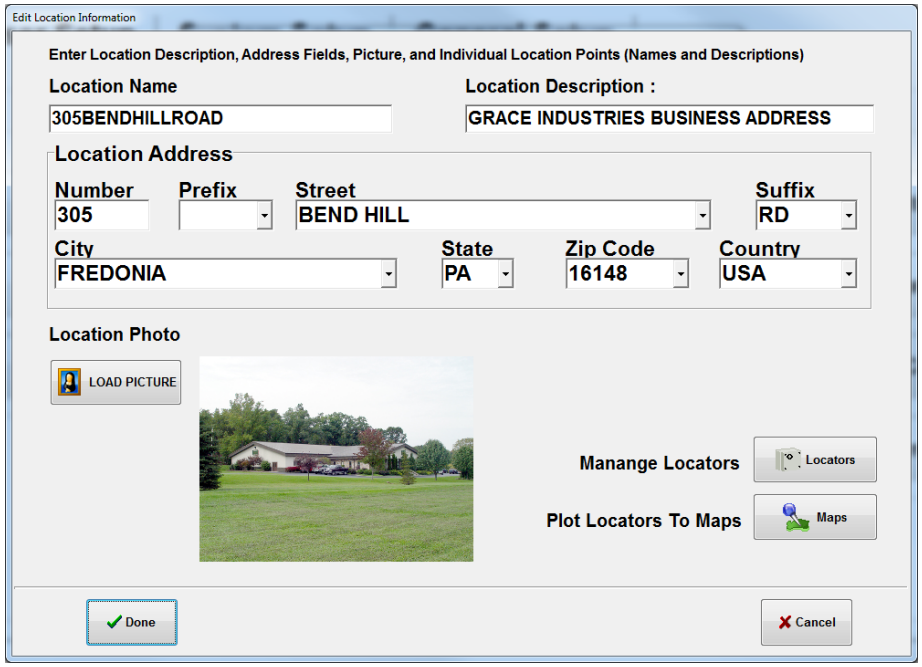
- Enter all fields including name, description and address fields
- Press Load Picture to add a picture of the location
- Press Done when finished
- Use Manage Locators and Plot Locators only if you are using the Grace Location system. *This Feature is NOT Available for International Use with MX900-H Transceiver

Adding a Location Picture



- Select The picture desired from the existing pictures box
- Press Select Highlighted Picture
- Press Accept to accept the picture
- Press Cancel to cancel the action

Editing an Existing Location



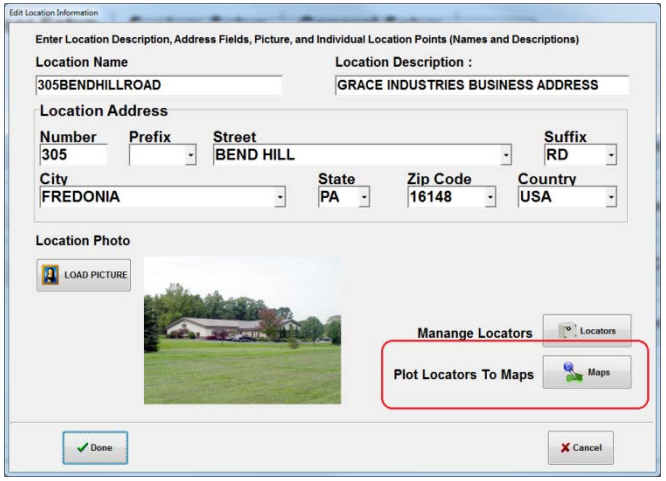
- Select a Location from the list on the Edit Locations Dialog and press the Edit Location button
- Change any fields (except the name) and picture desired
- Press Done when finished

Locator Image Mapping

***This Feature is NOT Available for International Use with MX900-H Transceiver**

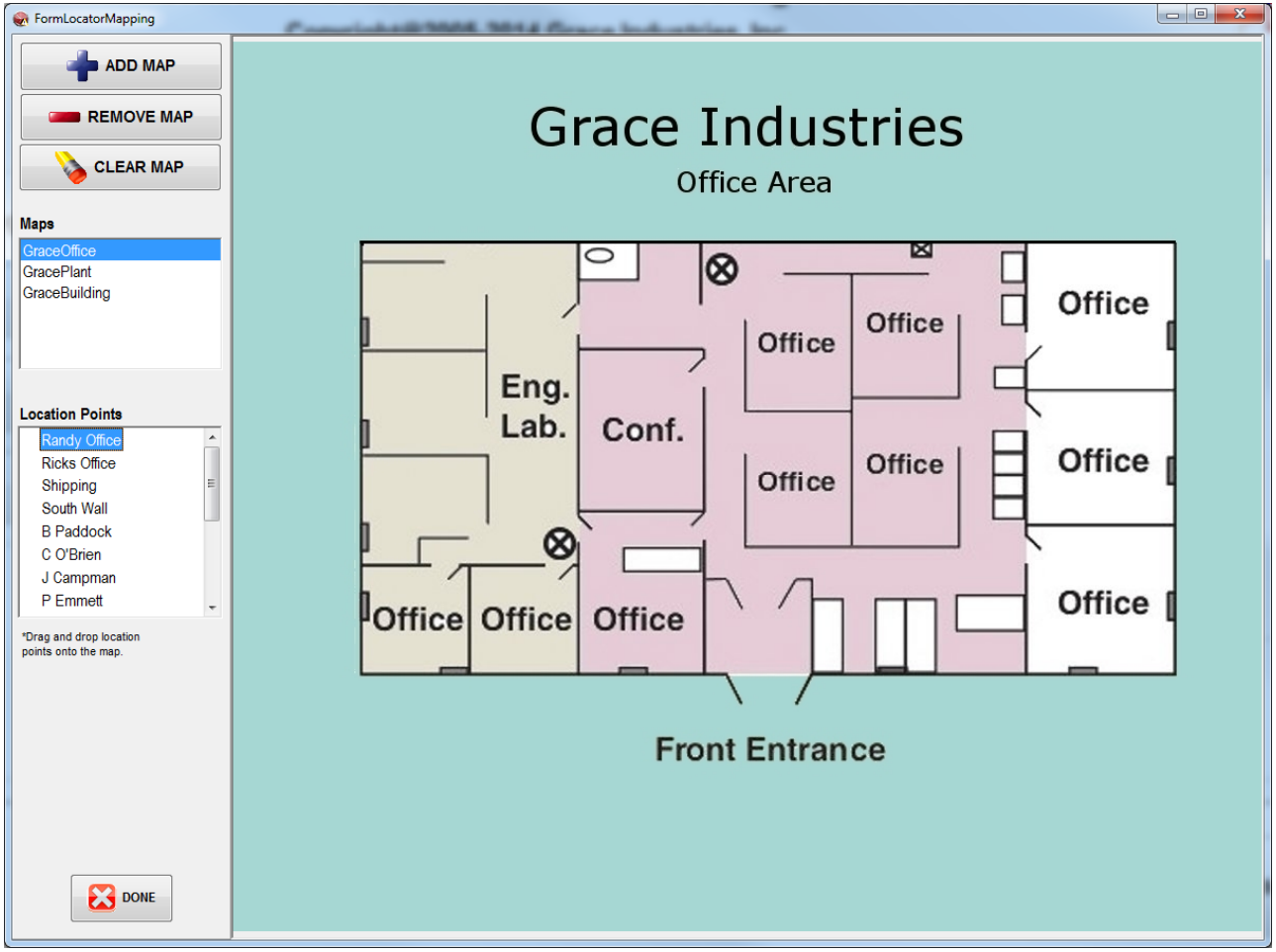
Locator Image Mapping provides the ability to associate locators to points on an image. Images would typically be maps of your establishment where locators are positioned.

- **The configuration screen can be invoked by editing a location and selecting "Plot Locators To Maps"**



Locator Image Mapping

***This Feature is NOT Available for International Use with MX900-H Transceiver**



Locator Image Mapping

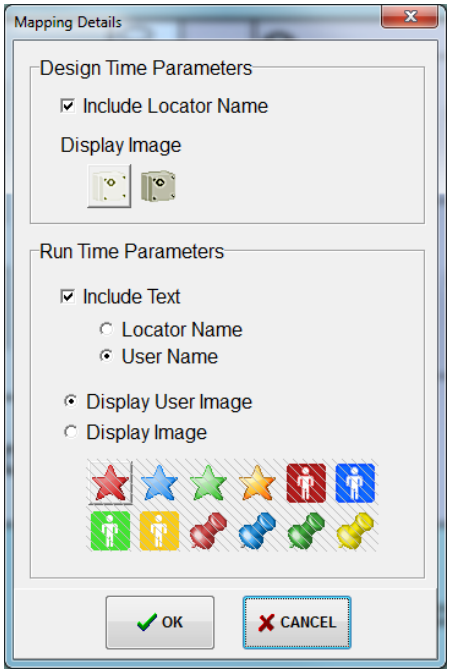
***This Feature is NOT Available for International Use with MX900-H Transceiver**

- **Add Map Button**
  - **The add map button allows you to load a new image by browsing the file system. A copy of the loaded image is saved to the configuration folder. The original is not disturbed.**
- **Remove Map Button**
  - **Removes a map association and any locator mapping that was already configured.**
- **Clear Map Button**
  - **Clears any locator mappings that are already in place.**
- **Map Window**
  - **Displays a list of loaded maps.**
- **Location Points**
  - **Displays a list of location points. This is a list of locators defined under locator setup.**

Locator Image Mapping

***This Feature is NOT Available for International Use with MX900-H Transceiver**

- **To map a location point, click and drag the desired locator to a point on the map and drop it.**
- **The mapping details screen will pop up.**



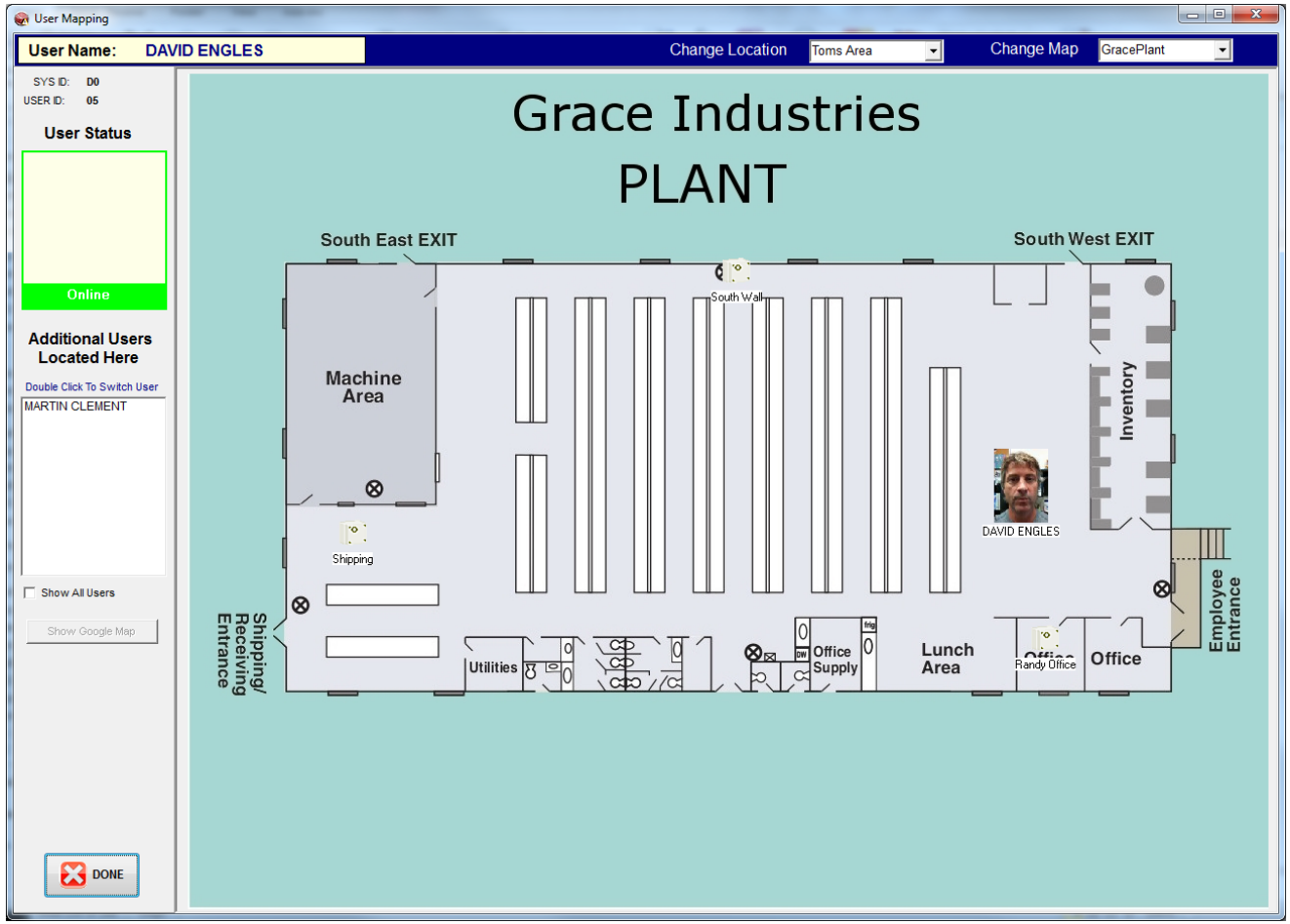
Locator Image Mapping

***This Feature is NOT Available for International Use with MX900-H Transceiver**

- **Design Time Parameters**
  - **These options describe how the locator will appear on an image during configuration.**
  - **Include Locator Name**
    - **This will place the Location Point name next to the desired image on the map.**
  - **Display Image**
    - **The image to be displayed. Two locator image provided for contrast.**
- **Run Time Parameters**
  - **These options describe how the location point will appear on an image at run time.**
  - **Include Text**
    - **There are two options for the text to display with the image. The locator name or the User name.**
  - **Display User Image**
    - **This option will use the User Image assigned to a given user in user setups.**
  - **Display Image**
    - **Select an image to display from the icons provided.**

Locator Image Mapping

***This Feature is NOT Available for International Use with MX900-H Transceiver**



Locator Image Mapping

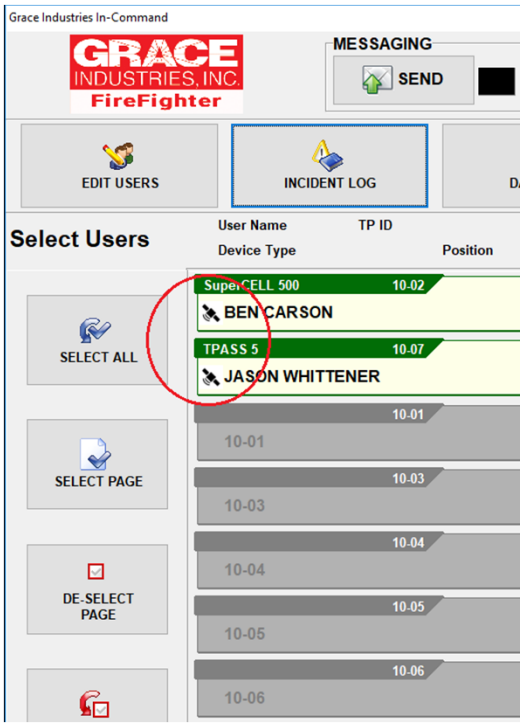
***This Feature is NOT Available for International Use with MX900-H Transceiver**

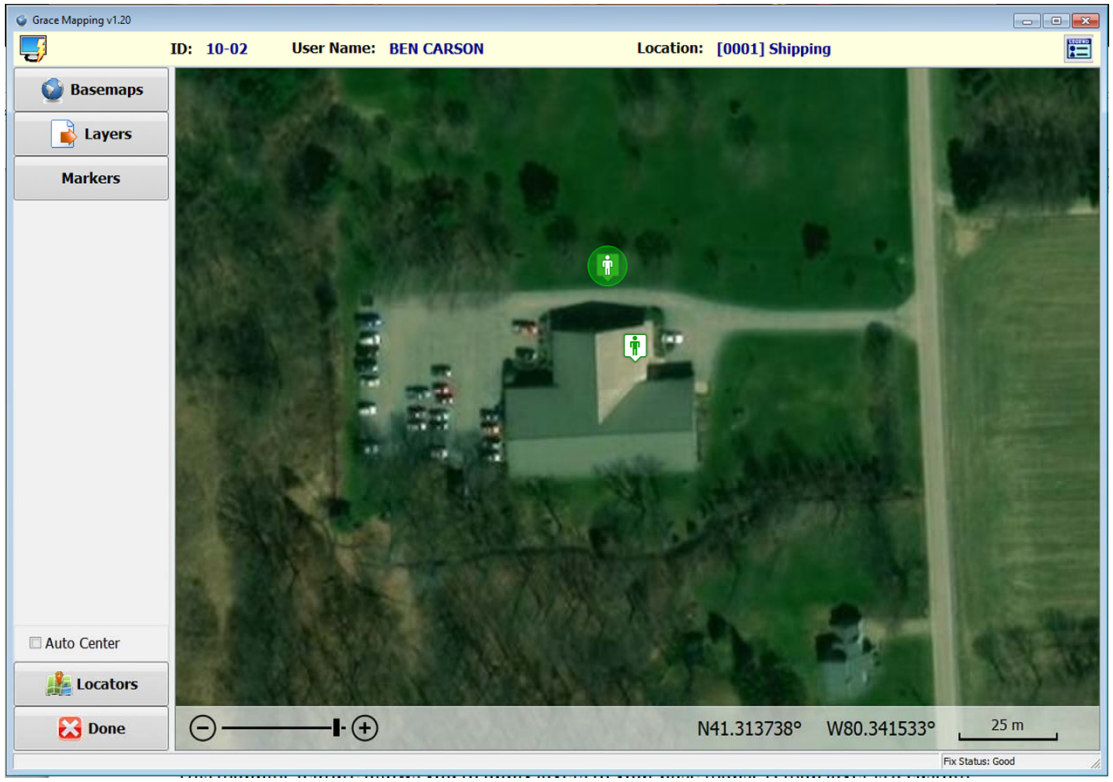
- **Run Time Screen**
  - **The image section of the screen will display the selected users location as described in setup. Other locations that have been mapped will also display.**
  - **Selecting the mapped user or any other location on the map will display a list of users located in that area. You can choose a user from the list to make that user the selected user.**
  - **There are drop down boxes at the top of the screen to allow you to quickly select a different map or location.**
  - **The upper left of the screen will always show the selected users status bits.**
  - **The list box to the left of the screen can display other users located at the current location or all users of the system.**
  - **If a selected user has a GPS enabled device or the current location has been configure with GPS coordinates, the Show Map button will be enabled and launch the GPS Map screen when clicked.**

GPS Device Mapping

When using GPS Enabled TPASS 5 GPS pass devices, you can view the device's actual location on a real-time map. Units that have acquired a GPS lock will appear on the main incident screen with the GPS symbol next to the device type.

Double-clicking the GPS symbol will invoke the map.





GPS Device Mapping

Base Maps

The mapping feature allows you to choose your map type. Several base map options are provided, including imagery and street views from Esri, OpenStreetMaps and Bing Maps. The mapping functions use caching so that previously loaded maps are also available offline.

Caching an area can be achieved by viewing the location at various zoom levels or by using the built-in caching tool that works with the Esri style base maps.

***Bing Maps requires a license key provided by Microsoft to use.**

Available Maps

World Imagery	**OpenStreet Maps**
World Street Maps	**Bing Imagery**
World Topography	**Bing Hybrid**
Nat Geo World	**Bing Road**
USA Topography	

GPS Device Mapping

Layers

This mapping feature allows you to apply User provided layers to base maps. A map layer is a custom overlay that is displayed as a visible layer on top of the Base Map. Supported layer formats are Esri Shapefiles and Google KML. You can apply multiple layers and manipulate properties of each layer to adjust order, colors and hint attributes.

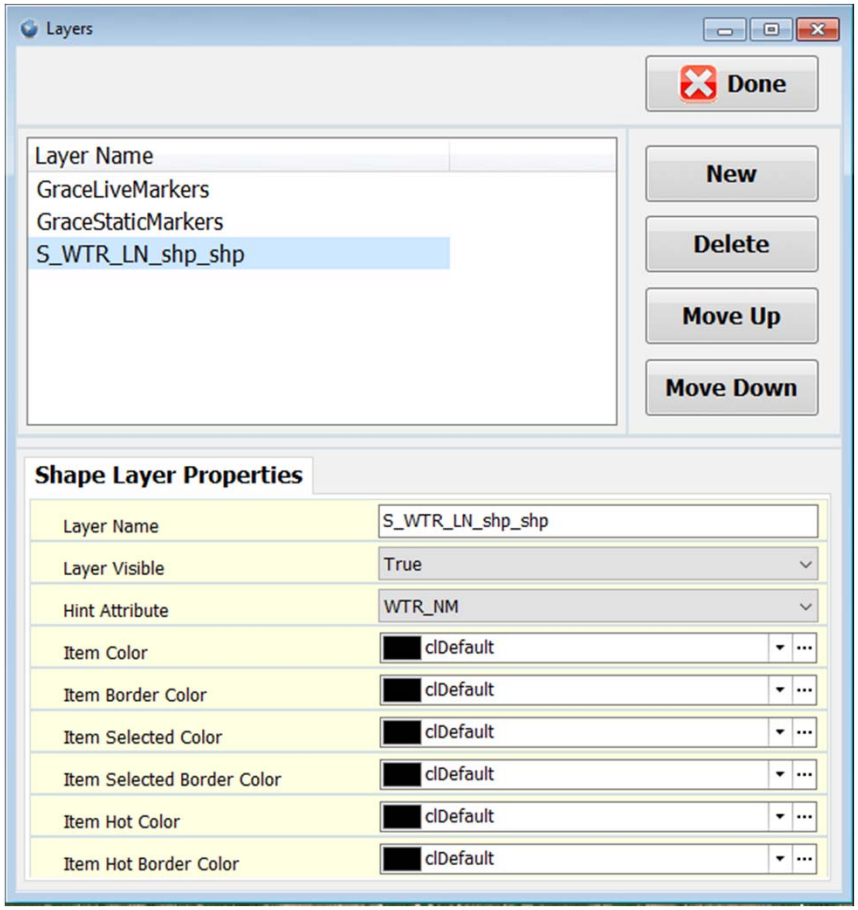
You can Add new layers, Delete layers and change the order of layers using the top right control buttons. The 2 base “Grace” layers do not have properties and cannot be removed.

Once a layer is loaded and selected, you will see a list of properties. Here you can change the name of the layer and show or hide the layer. The Hint attribute dropdown may contain a list of attributes from the metadata of the layer file. Here you can select the attribute field that may contain appropriate hint data for when mouse over elements on the map.

The color attributes are used to define the appearance of elements on the layer. Color and Border Color settings are available for the elements in various states. Normal, Selected and Hot (Hot happens on mouse over)

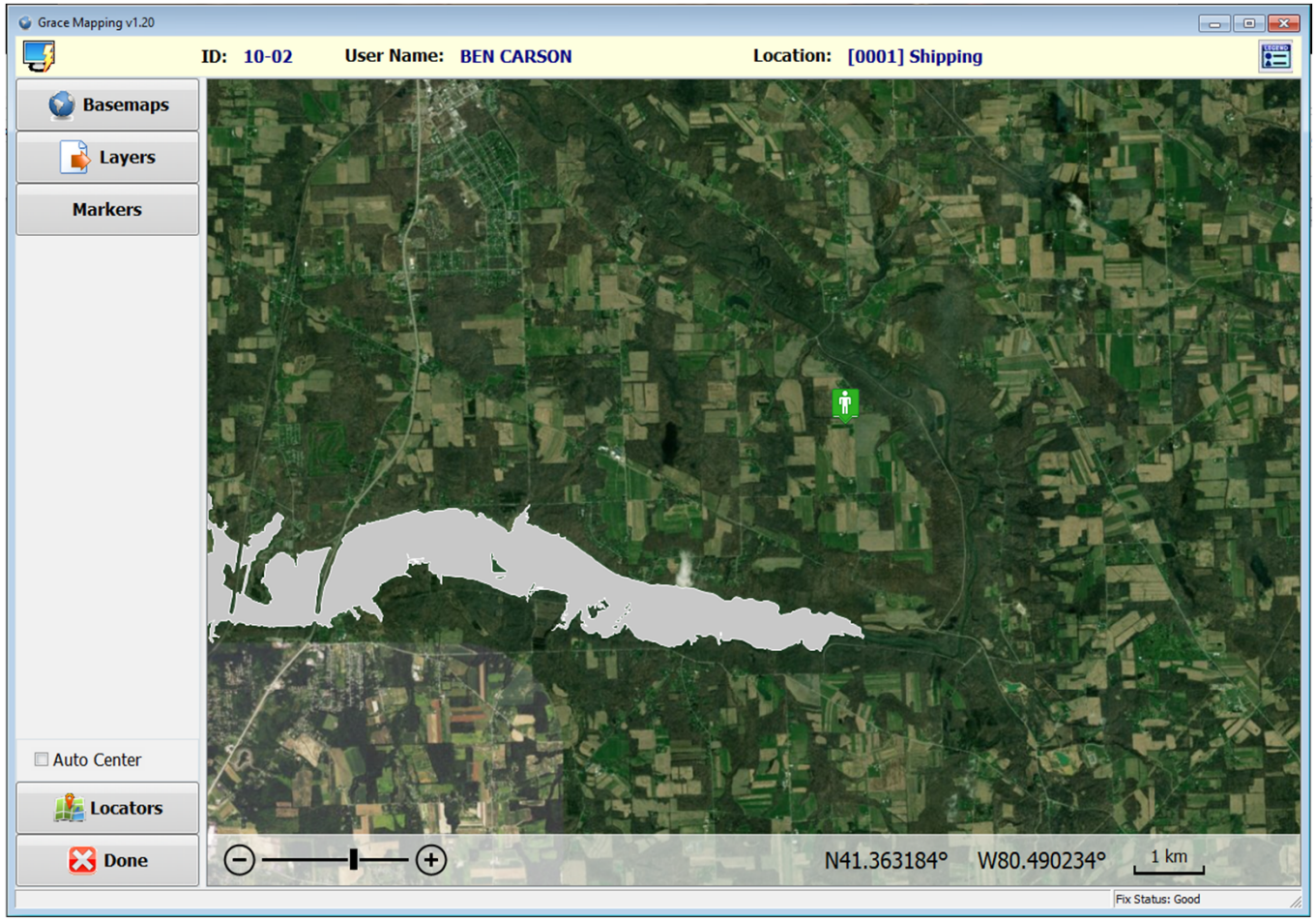
GPS Device Mapping

Layer Management Screenshot



GPS Device Mapping

Screenshot showing local lake marked with an imported Esri Shapefile layer



GPS Device Mapping

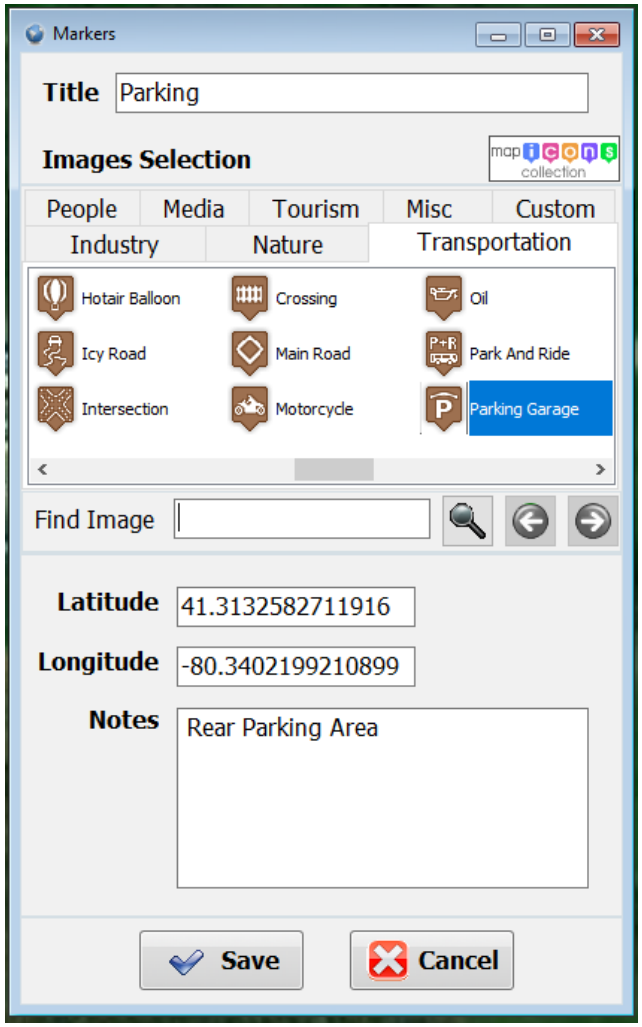
Static Markers

You can manually mark any location on the map using Static Markers. There are hundreds of predefined images included or you can import your own images to be used. Static Markers are saved when the program closes and will automatically be placed every time you start an incident and open the map tool.

When creating or editing a static marker, the marker management window is used to make changes to the Title, Marker Image, Latitude and Longitude, and Notes fields.

There is a search function below the markers to help you find a marker by key word. The search function works across all categories.

Latitude and Longitude values will be automatically populated when invoking the marker window or by clicking on the map at any time. You can also manually type in these values.



GPS Device Mapping

Screenshot showing 2 static markers used to mark a parking area and wooded area.



GPS Device Mapping

Incident Device Live Markers

During an incident, GPS enabled devices will appear on the map using the symbols shown below and will depend on the status of the device. Non-Selected devices will display in the reverse colors of the selected device. The GPS fix quality will be seen as a semi-transparent radius around the marker that will vary in size depending on the quality of the signal. A smaller radius indicates a better signal. The radius will also use color as a visual indicator of signal quality. (Green=Good, Yellow=Fair, Red=Poor) Fix Radius will only apply to the selected user and can only be seen at certain zoom levels of the map.

Live Marker Images Showing Selected Device Status Colors vs Other Mapped Device Status Colors



GPS Device Mapping

Screenshot showing Selected and Non-Selected Device Markers.
Notice the Selected Marker has the GPS Fix Radius.



GPS Device Mapping

Configuration

All of the features described above are also available in configuration mode before an Incident is started. Here you can preconfigure available maps, load layers and place static markers so they are available when an incident is started. You can also limit the functionality that will be available when an incident is started. You can specify which base maps the incident commander can choose from. You can pre-cache areas of the map for offline use. You can preconfigure and hide mapping functionality. As an example, you could create static markers and then set the Static Markers button to be hidden so that you cannot change static markers during an incident.



GPS Device Mapping

Offline Cache Button

The offline cache button allows you to select an area and build an offline map tile cache for the current and higher zoom levels. The feature is only available at zoom levels showing an area approximately 250 square miles or less. Multiple downloads will be needed to cache larger areas. The Green band around the map is a visual indicator that this area is cacheable. Press the cache button to display the caching start/progress window. You must have an internet connection for this feature to be available.

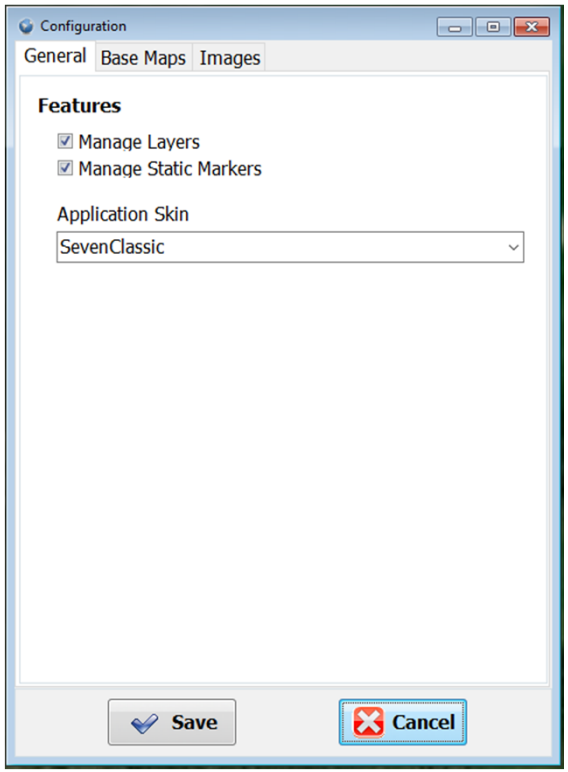
Warning: Caching maps requires large amounts of map-data to be downloaded over an internet connection. Depending on the internet connection speed, this may take a considerable amount of time to complete. It is highly recommended the map caching setup be completed before using the In-Command® system.

Example: Caching the maximum cache area (approximately 250 sq. miles) with a 50MB/s connection will take approximately 60 minutes.

GPS Device Mapping

Configure / General

The configuration general settings screen allows you to turn the Layer and Static Marker buttons on and off. This allows you to define these items in configuration mode so that layers and static markers are projected on to the map but the Incident command user cannot modify them. You can also change the look of the mapping screens by using the Application Skin drop down and selecting an alternate skin.

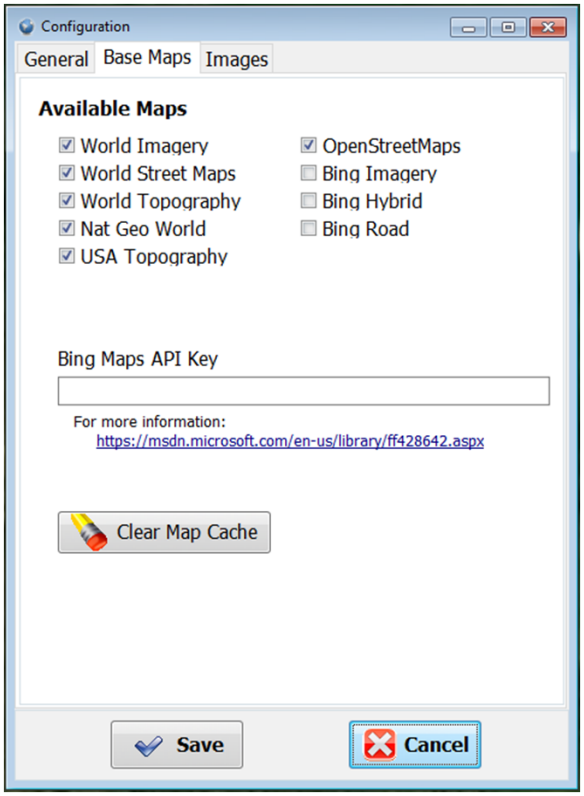


GPS Device Mapping

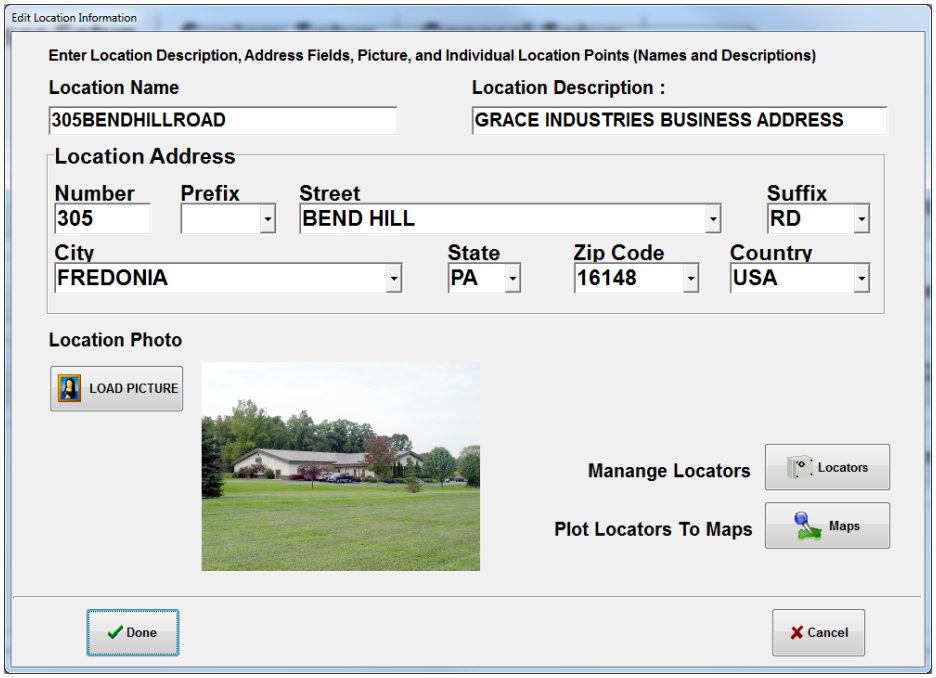
Configure / Base Maps

Here you can choose the Base Maps that will be available to the Incident Command. When choosing any of the Bing map types, the Bing Maps API Key is required.

The Clear Map Cache button is available so you can delete all of the map tiles that are currently downloaded and available to the application.



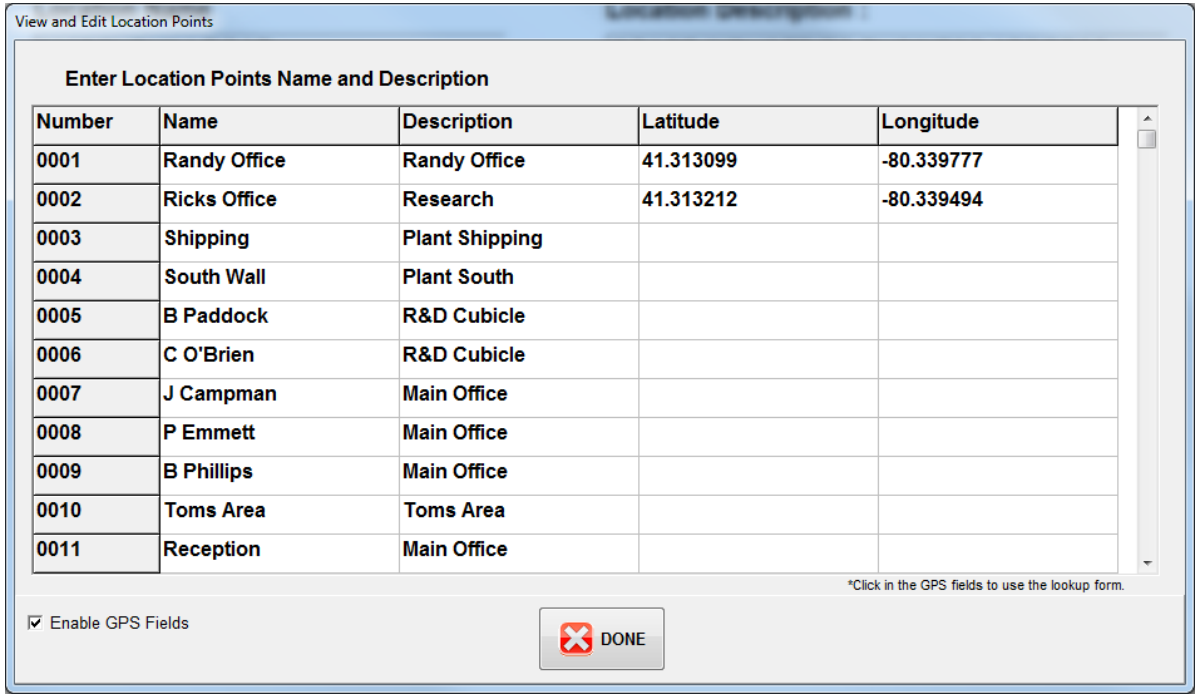
Creating a Location



- Enter all fields including name, description and address fields
- Press Load Picture to add a picture of the location
- Press Done when finished
- Manage Locators and Plot Locators To Maps are only used when using Grace Locators.

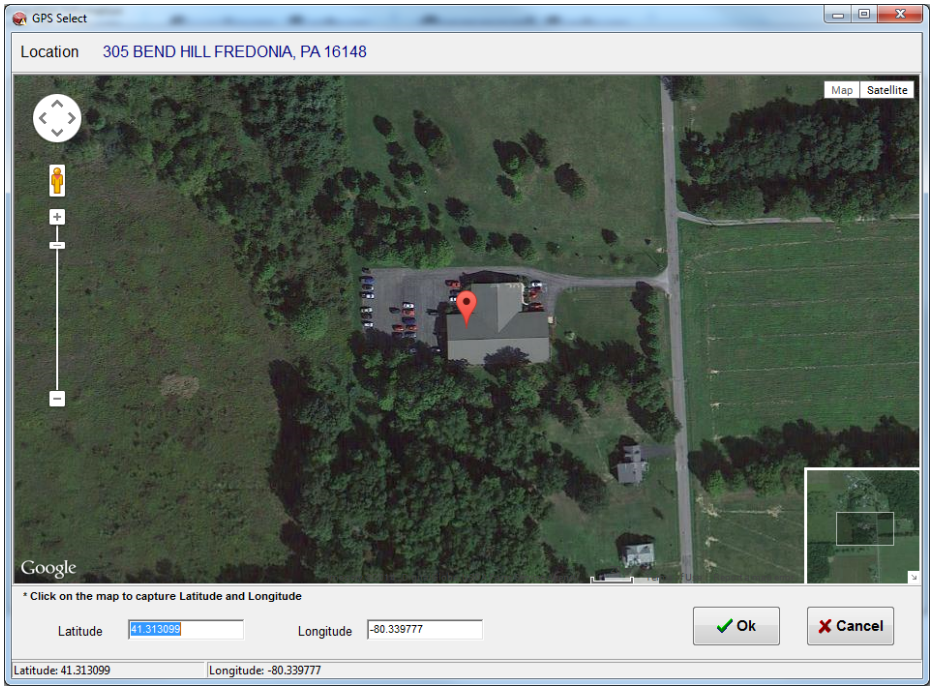
Locator Configuration

***This Feature is NOT Available for International Use with MX900-H Transceiver**



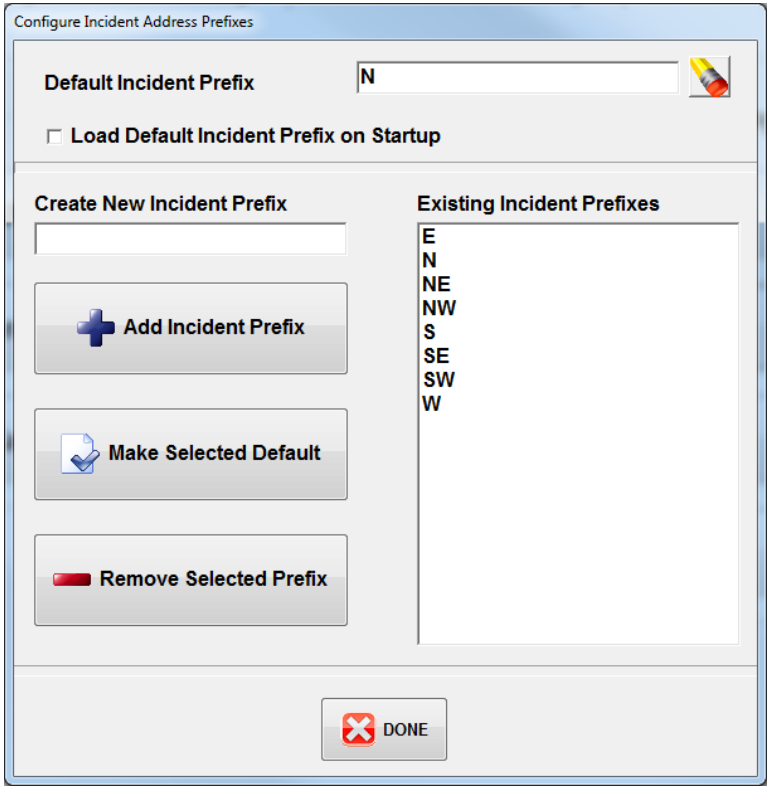
- **For each Grace Locator used, enter name and description information in the row that corresponds to the locator ID.**
- **Locators can be associated to GPS Coordinates by entering the latitude and longitude values. Use the lookup to assist in entering these values.**

GPS Lookup



- Use the navigation tools to find the desired location on the map.
- Use the mouse to choose the location on the map.
- The latitude and longitude fields will be populated.
- Press ok and the locator fields will be populated with these values.

Configuring Incident Prefixes



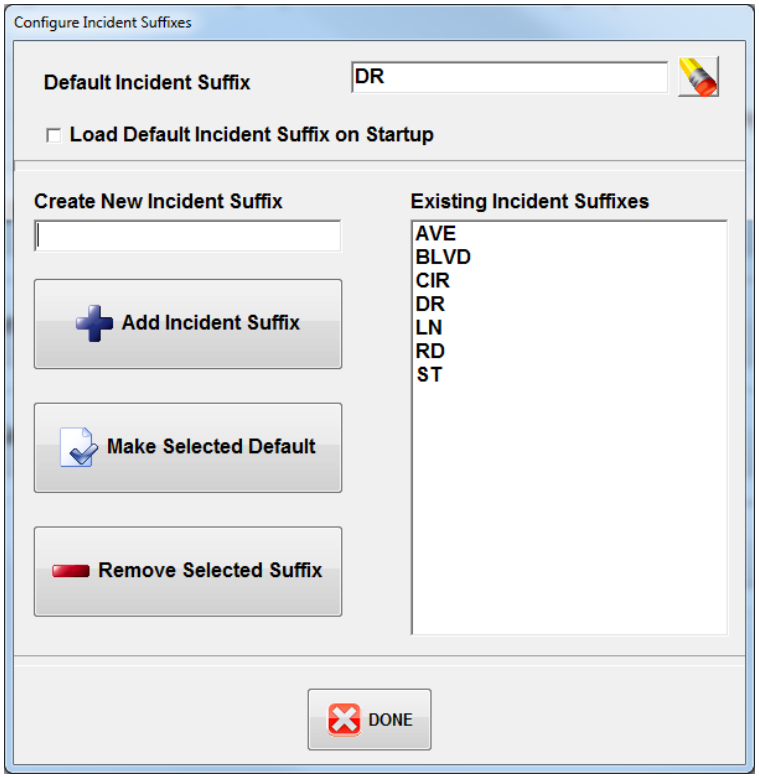
- Press the Prefixes Button to Edit Incident Prefixes
- Enter a Prefix into the Create New Box and Press Add Incident Prefix
- The Prefix Will Be Added to the Dialog Box on the Right
- Highlight a Prefix and Press Remove to Remove a Prefix from the List
- Highlight a Prefix and Press Make Default to Make the Prefix the Default
- Check Load Default Prefix to load this Prefix as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Streets



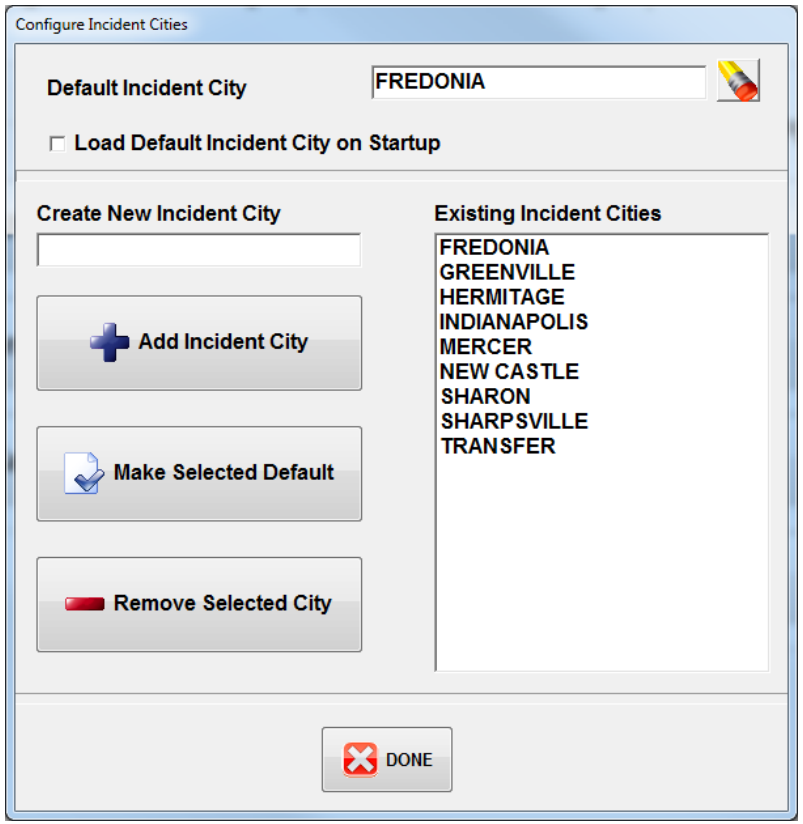
- Press the Streets Button to Edit Incident Streets
- Enter a Street into the Create New Box and Press Add Incident Street-The Street Will Be Added to the Dialog Box on the Right
- Highlight a Street and Press Remove to Remove a Street from the List
- Highlight a Street and Press Make Default to Make the Street the Default
- Check Load Default Street to load this Street as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Suffixes



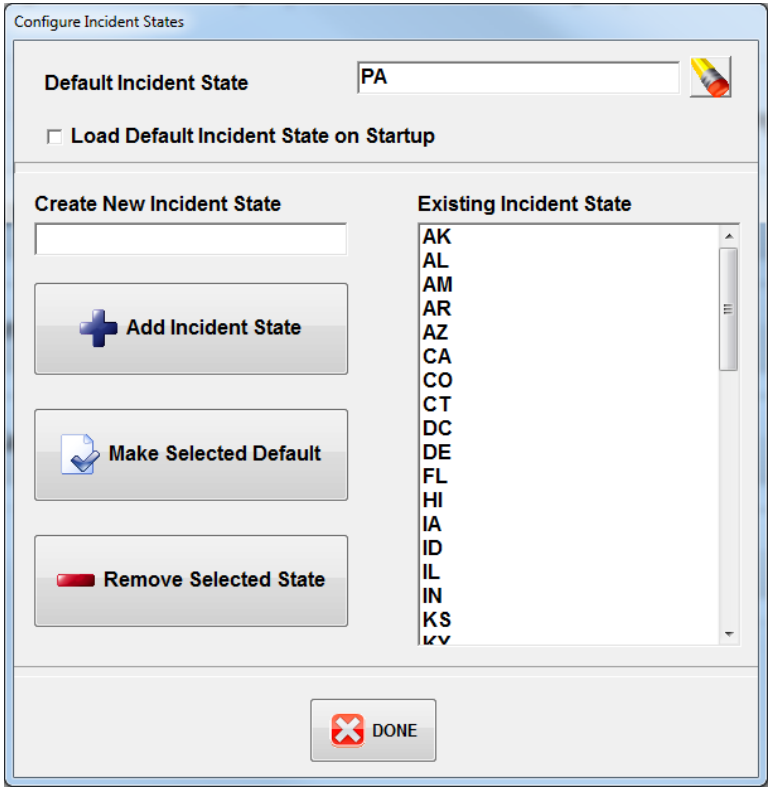
- Press the Suffixes Button to Edit Incident Suffixes
- Enter a Suffix into the Create New Box and Press Add Incident Suffix- The Suffix Will Be Added to the Dialog Box on the Right
- Highlight a Suffix and Press Remove to Remove a Suffix from the List
- Highlight a Suffix and Press Make Default to Make the Suffix the Default
- Check Load Default Suffix to load this Suffix as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Cities



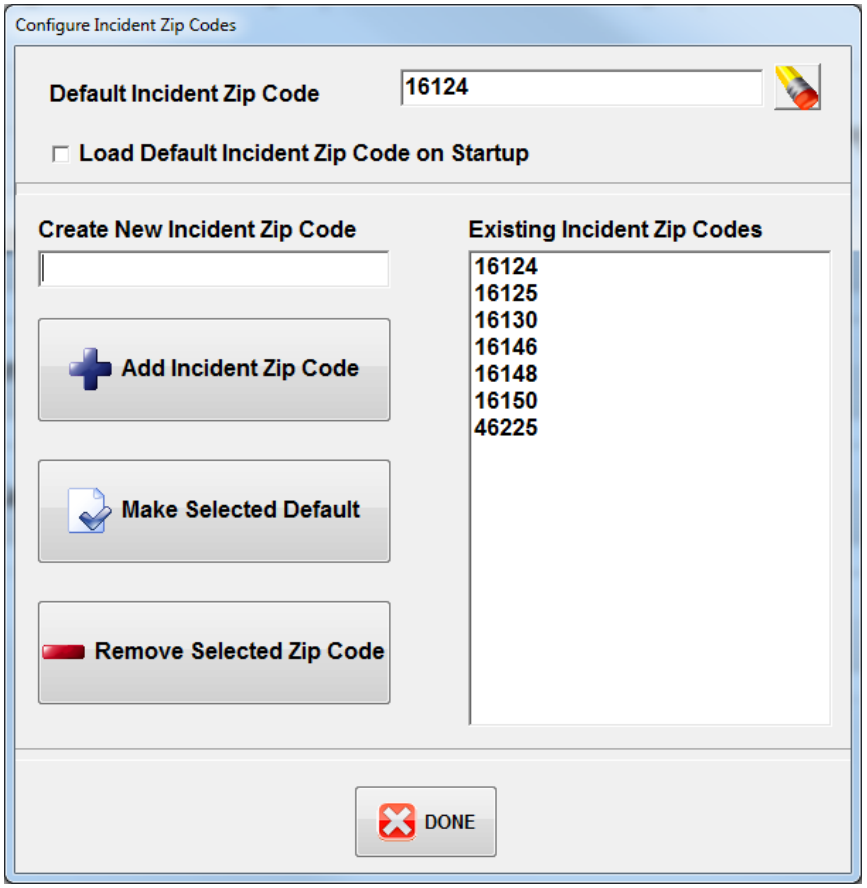
- Press the Cities Button to Edit Incident Cities
- Enter a City into the Create New Box and Press Add Incident City-The City Will Be Added to the Dialog Box on the Right
- Highlight a City and Press Remove to Remove a City from the List
- Highlight a City and Press Make Default to Make the City the Default
- Check Load Default City to load this City as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident States



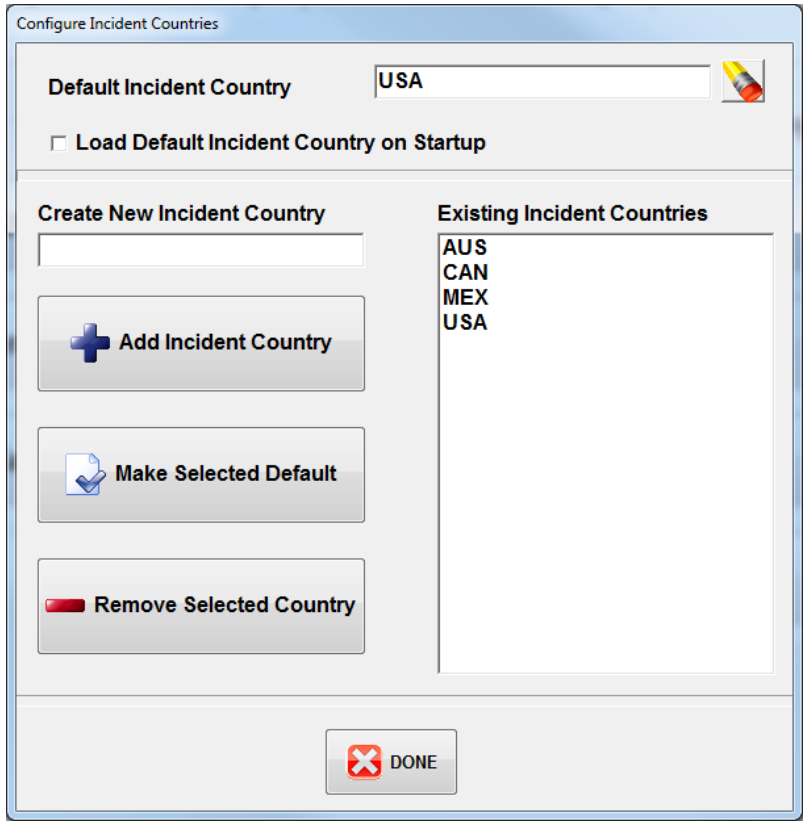
- Press the States Button to Edit Incident States
- Enter a State into the Create New Box and Press Add Incident State- The State Will Be Added to the Dialog Box on the Right
- Highlight a State and Press Remove to Remove a State from the List
- Highlight a State and Press Make Default to Make the State the Default
- Check Load Default State to load this State as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Zip Codes



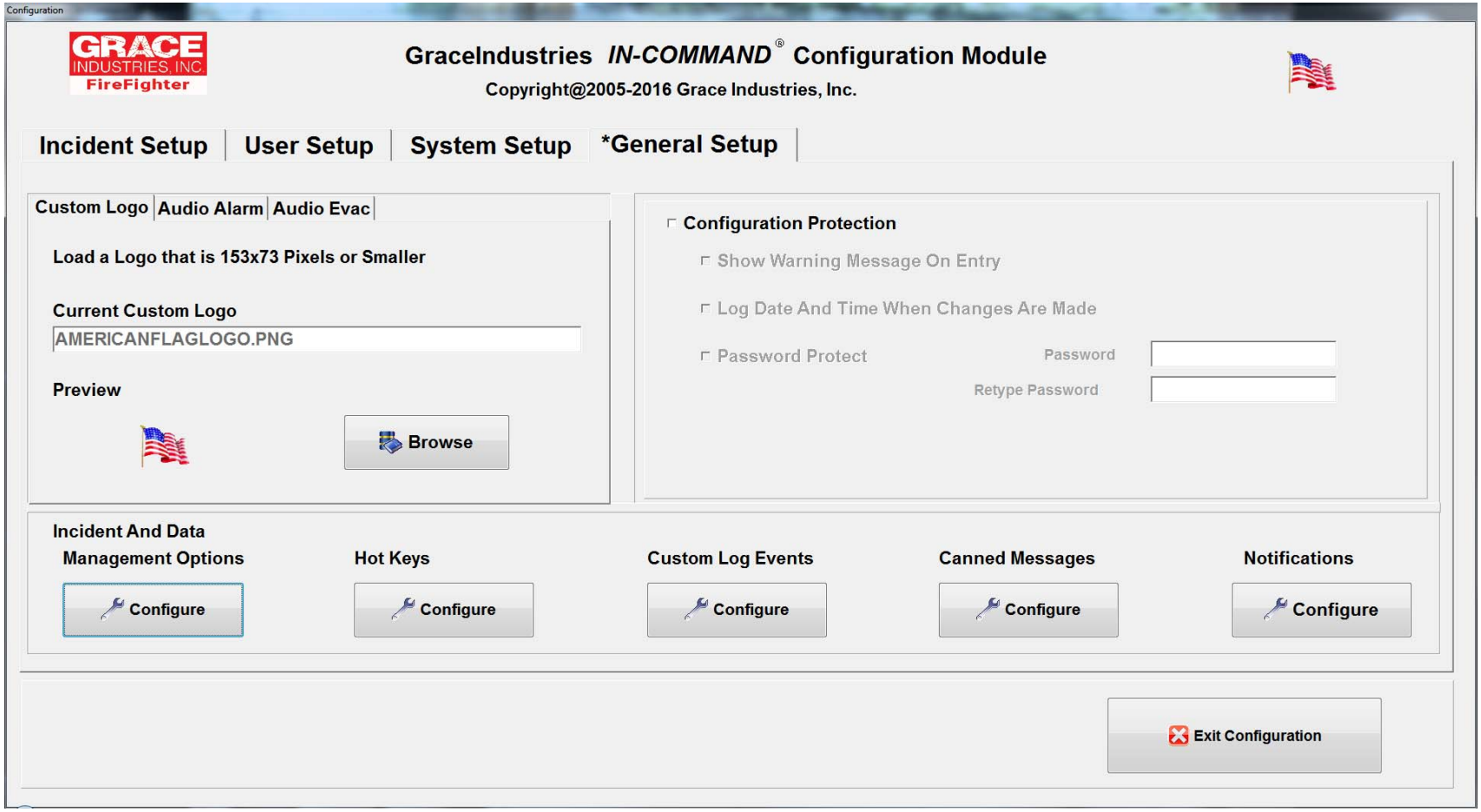
- Press the Zip Codes Button to Edit Incident Zip Codes
- Enter a Zip Code into the Create New Box and Press Add Incident Zip Code-The Zip Code Will Be Added to the Dialog Box on the Right
- Highlight a Zip Code and Press Remove to Remove a Zip Code from the List
- Highlight a Zip Code and Press Make Default to Make the Zip Code the Default
- Check Load Default Zip Code to load this Zip Code as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring Incident Countries

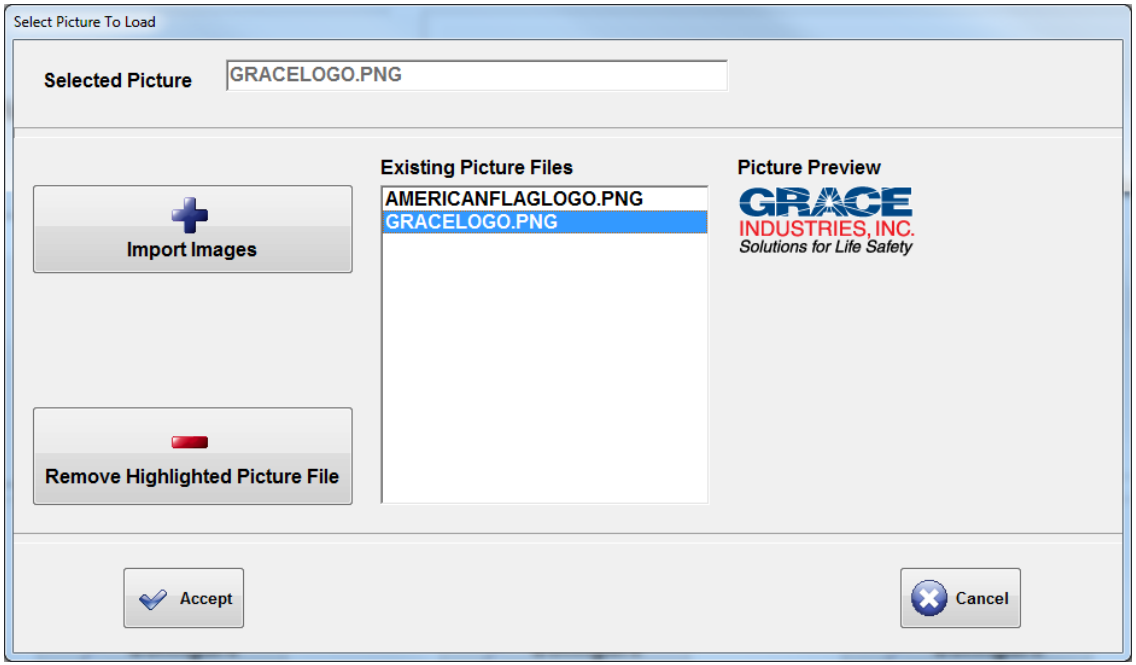


- Press the Countries Button to Edit Incident Countries
- Enter a Country into the Create New Box and Press Add Incident Country-The Country Will Be Added to the Dialog Box on the Right
- Highlight a Country and Press Remove to Remove a Country from the List
- Highlight a Country and Press Make Default to Make the Country the Default
- Check Load Default Country to load this Country as the Default on the Operation Setup Screen when In-Command is started
- Press Done when finished

Configuring General Setup

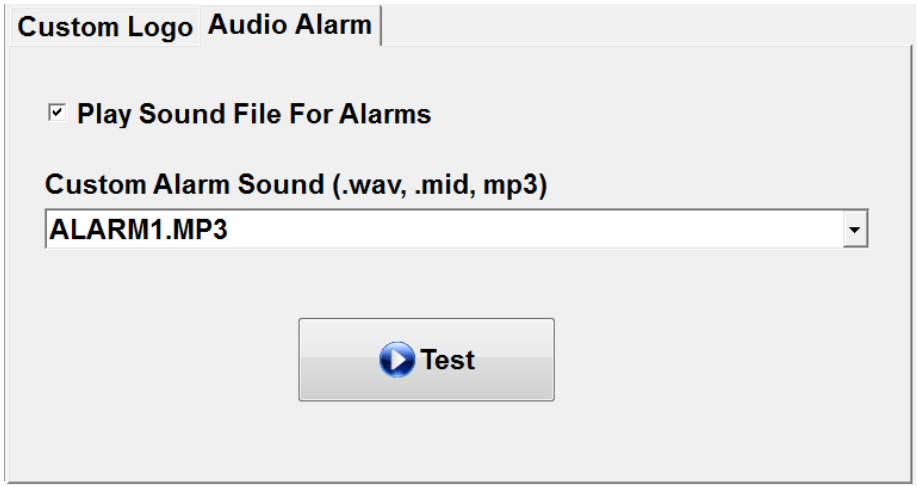


Changing the Custom Logo



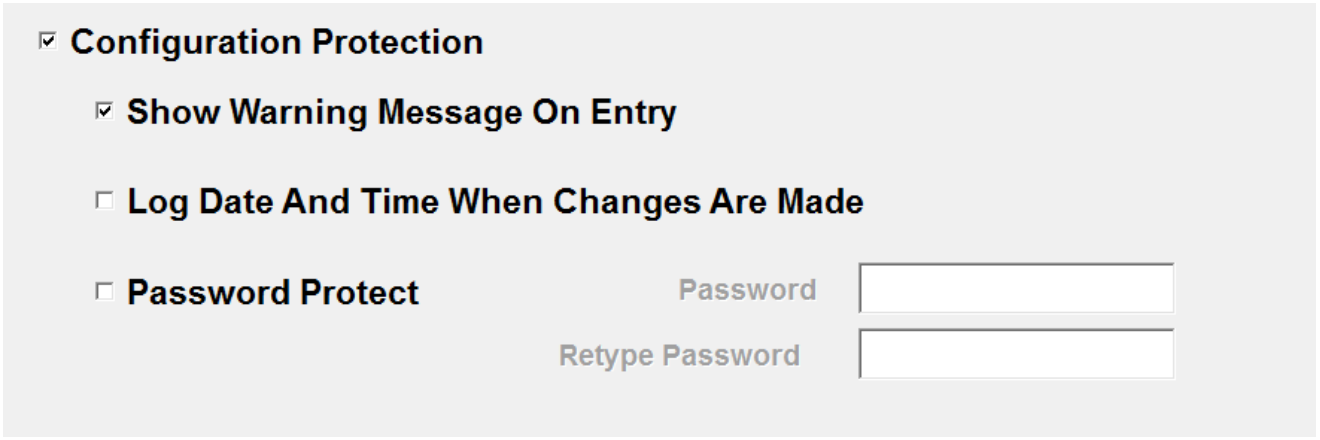
- Select Browse from the General settings Tab
- Select a picture from the list and press Select Highlighted Picture
- Logo graphic files must be placed in <Program Folder>\logos
- Press Accept to Accept the new picture or Cancel to cancel the action

Audio Alarms



- Audio Alarms can be configured by going to Configuration/General Setup and selecting the Audio Alarm Tab next to Custom Logo.
- Check the box that says ‘Play Sound File For Alarms’.
- Select the audio file from the drop down and test it.
- Custom audio files can be used by creating a sound file in the .mid, .wav or .mp3 format and placing a copy of it into the ‘Alarms’ folder in the user configuration folder where the application is installed.
  - Ex: C:\ProgramData\Grace Industries\In-Command\Alarms

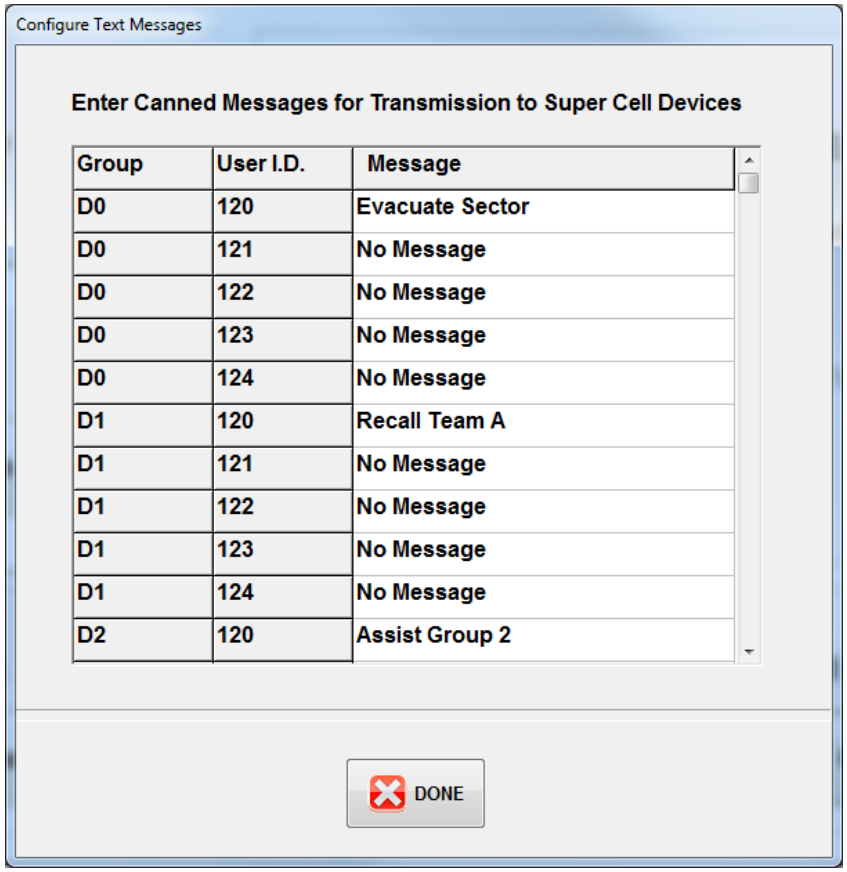
Configuration Protection



- Check Show Warning Message on Entry to display a warning message when entering the configuration screens.
- Check Log Date and Time to force the system to log a timestamp when configuration changes are made. Located in Program Data/Logs.
- Check Password Protect and provide a password to force a login screen when a user invokes the configuration screens.

- NOTE: Passwords are not managed by the software. If a password is forgotten, administrators can reset this feature using the DisableConfigPassword.exe tool located in the program folder.

Adding SuperCELL Canned Messages

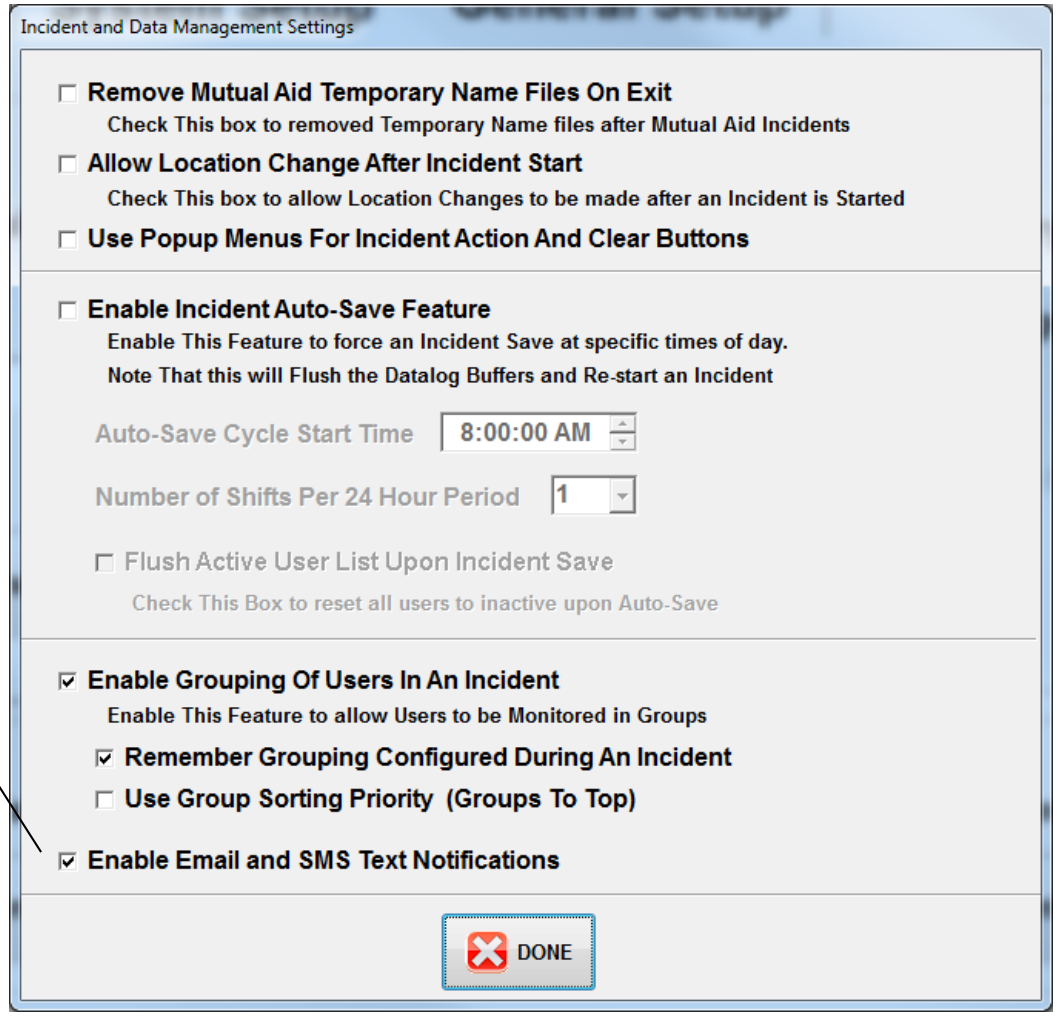


Group	User I.D.	Message
D0	120	Evacuate Sector
D0	121	No Message
D0	122	No Message
D0	123	No Message
D0	124	No Message
D1	120	Recall Team A
D1	121	No Message
D1	122	No Message
D1	123	No Message
D1	124	No Message
D2	120	Assist Group 2

- Add canned messages desired to all 120 locations
- The SuperCELL currently supports 16 canned messages
- In-Command supports 80 canned messages to account for future SuperCELL Development
- Each canned message may contain 16 Characters

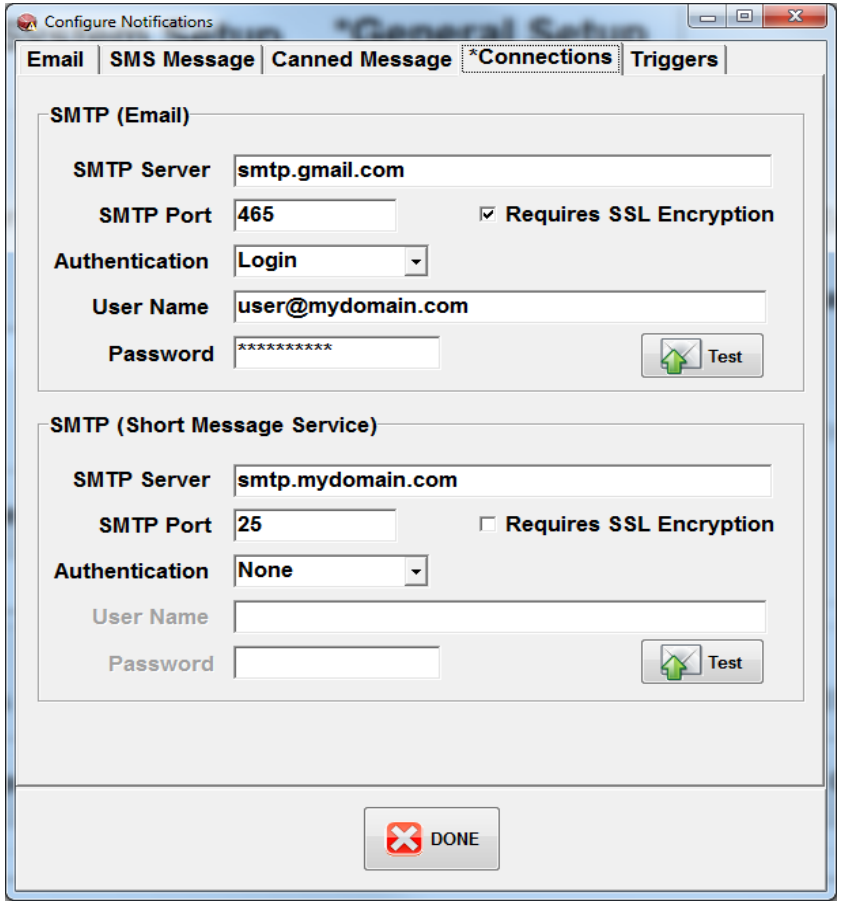
Email/SMS Notifications

- **A notification is the ability of the system to be configured to respond to a specific event by sending an email or SMS canned message to one or more recipients.**



Configuring Notifications

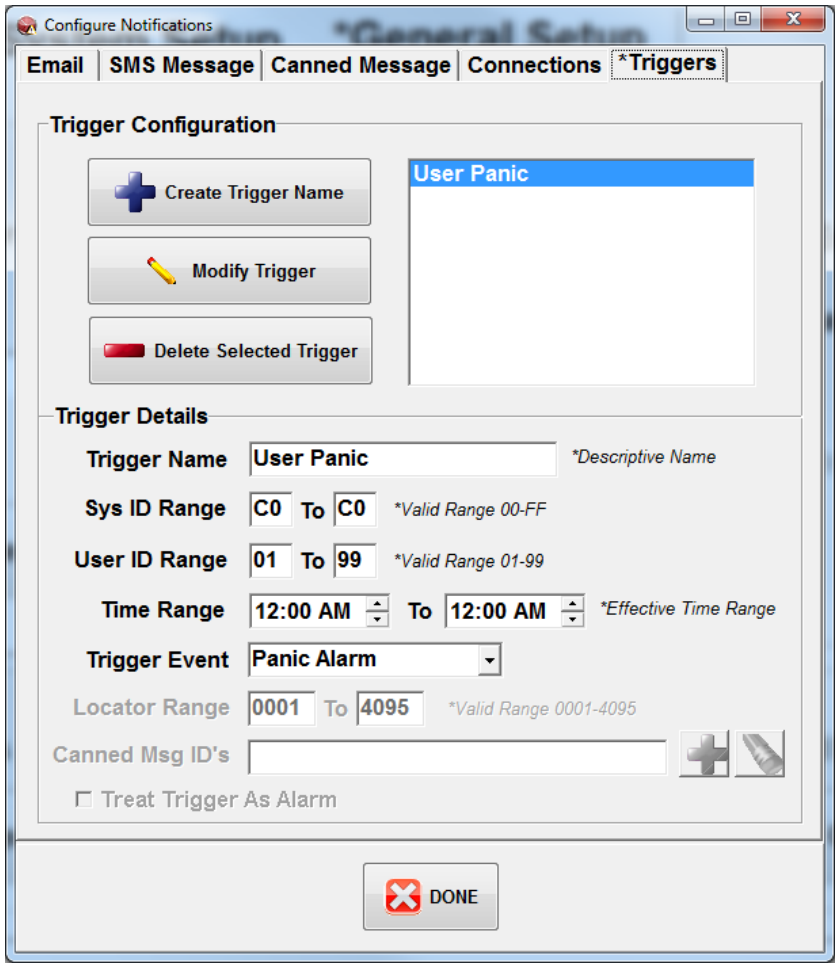
Connections



- Choose Configuration/General Setup/Notifications. The fourth tab over is where you will setup your connections to SMTP servers.
- There are two separate setups. One for Email and one for SMS Messages. This is for flexibility. These setups could be the same.
- SMTP Server
  - Specify the SMTP server address.
- SMTP Port
  - Specify the Port used. Typically 25 unless the server uses TLS/SSL
- Requires SSL
  - Check this if your server uses TLS/SSL encryption.
- Authentication
  - Select 'Login' if your server requires credentials.
- User Name
  - User Name for the account if required.
- Password
  - Password for the account if required.
- Press the test button to test your setup. You should receive a 'Tested Ok' message once the configuration is correct.

Configuring Notifications

Triggers



Configuring Notifications

Triggers Continued

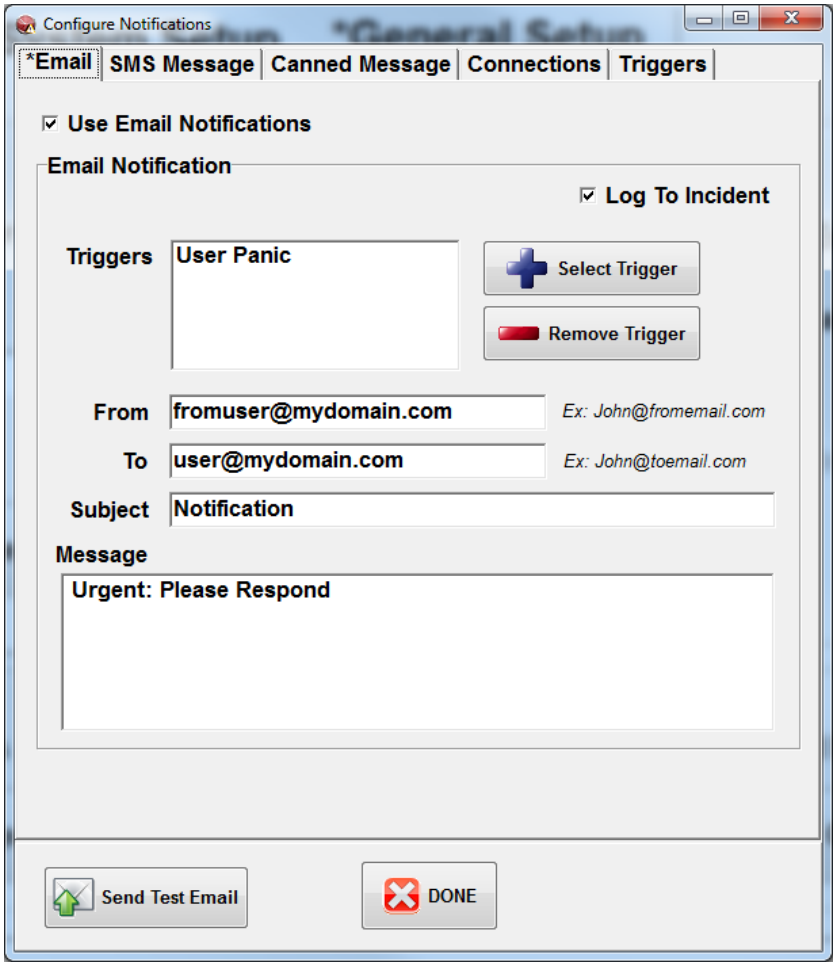
- Select the fifth tab on the notification configuration screen to setup triggers. Triggers are the events that take place to cause a notification. This is where you describe the conditions that must occur to 'trigger' a notification.
- Create Trigger Name
  - Select this button to create a new empty trigger that will need configured.
- Modify Trigger
  - Select this button to change the selected trigger. This puts it into an edit state.
- Delete Trigger
  - Select this button to remove the selected trigger.
- Trigger Name
  - Enter a meaningful name for the trigger. This will be used in a selection screen when setting up the email and sms messages. It will also be included in the message that gets sent.
- Sys ID Range
  - Select a range of ID's that the trigger should apply to. To set it up for only one ID, you should include that ID in both boxes.
- User ID Range
  - Select a range of user ID's that the trigger should apply to. To set it up for only one user ID, you should include that ID in both boxes.
- Time Range
  - Enter the time range that this trigger will be active. Providing the same time for upper and lower ranges will cause the trigger to always be active.
- Trigger Event
  - This is the actual event of the trigger. Ex: Alarm, low battery etc.
- Locator Range
  - This is only available when the trigger event is Location. Enter a range of locator id's to check for.
- Canned Message ID's
  - Select the ID of a SuperCELL message to use as a trigger.
- Treat Trigger as Alarm
  - Check this box to treat the notification event as an alarm. This will trigger an alarm condition in the incident monitor. Some Trigger Event's are already alarms, so this box will not be enabled for those event types.
  - In the incident, you will see the notification alarm image



- You can define as many triggers as you want, they will not be used until they are associated with an Email, SMS Message or Canned Message.

Configuring Notifications

Email



Configuring Notifications

Email Continued

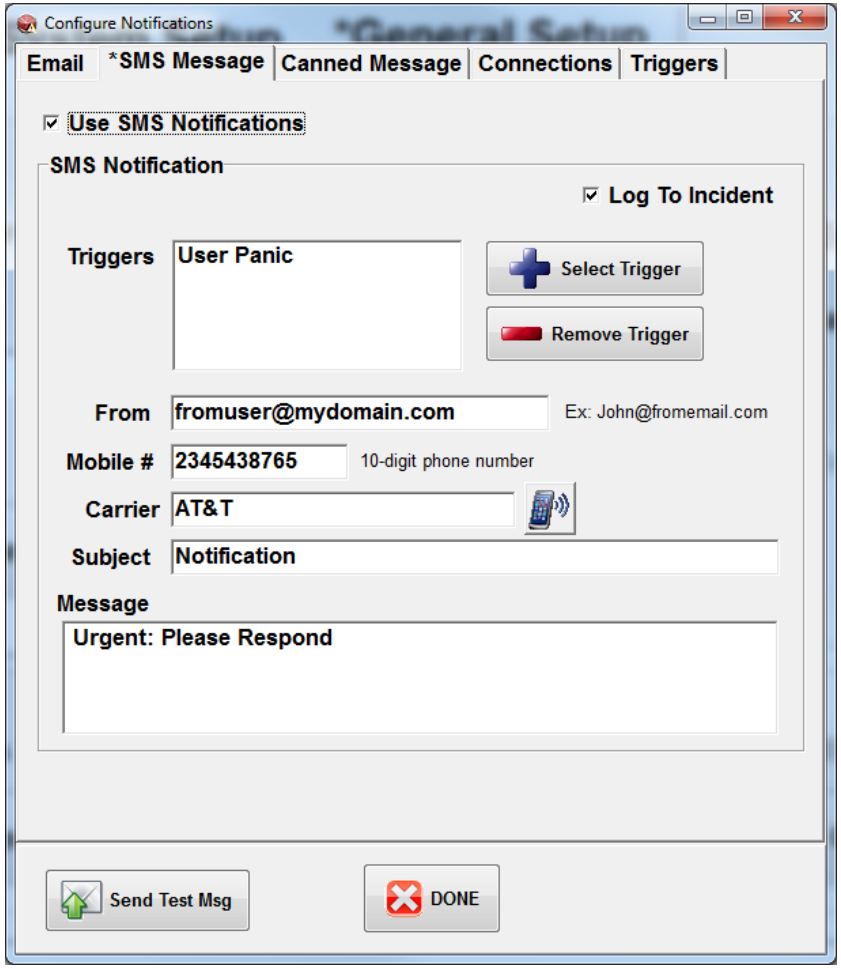
- Select the first tab on the notification configuration screen to setup an email.
- This is the email template that is used when a notification is triggered by the system.

Field Descriptions

- Use Email Notifications
  - You must check this box to activate email notification.
- Log To Incident
  - Check this box if you want to write to the incident log when a notification occurs.
- Triggers
  - Use the Select Trigger button to bring up the list of triggers you created in Trigger setup. Select one or more to associate them to the email notification.
  - Use the Remove Trigger button to remove a trigger from the email notification.
- From
  - Enter a valid email address. Most SMTP servers require that a 'from' field is provided.
- To
  - Enter a valid email address to send the email to. You can provide multiple addresses by using a semicolon as a separator.
- Subject
  - Enter a short generic description about the email.
- Message
  - You can provide additional information in the message part of the email to give special instructions to the recipient.
  - The system will prefix additional information to the message. System ID, User ID, User Name and the Trigger Name.
- Send Email Test
  - Press the test button located on the bottom toolbar. Be sure that your SMTP Server information has been setup and tested. If the button is not visible, then you might not have completed all of the required fields.
  - If the test is successful, you will see the message 'Email sent ok' you will also receive a test email at the location you provided in the 'To' field.

Configuring Notifications

SMS Message



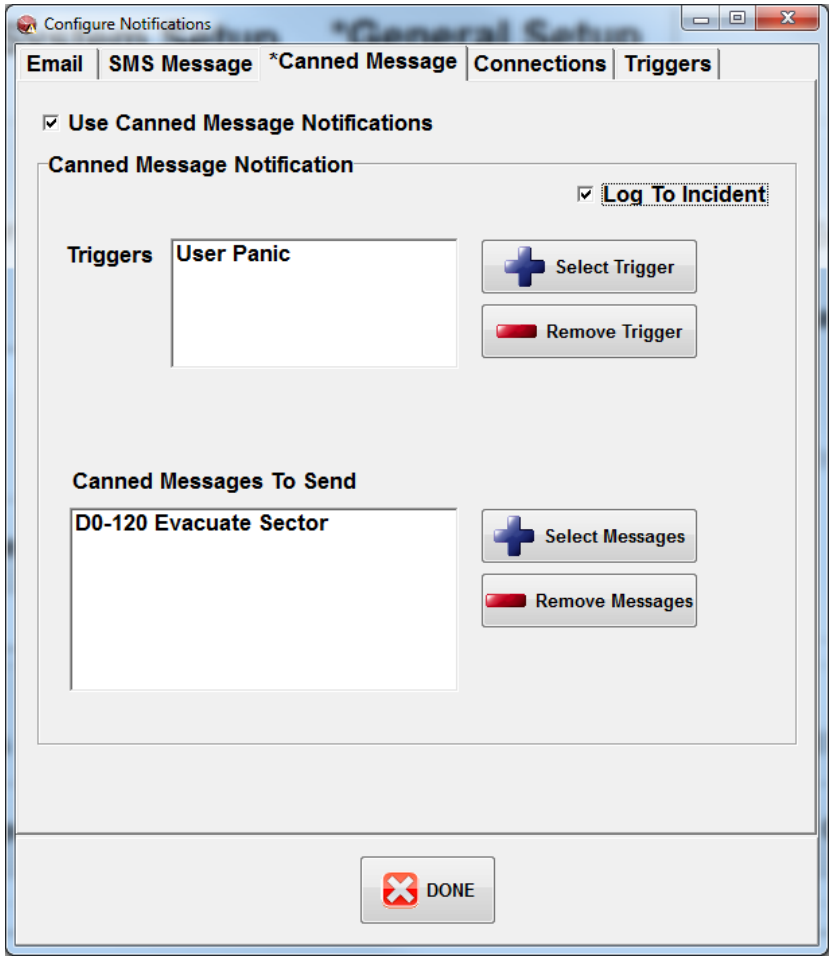
- Select the second tab on the notification configuration screen to setup an SMS Message
- The fields for an SMS Message are the same as the fields for an email with the exception of 'Mobile #' and 'Carrier'.

Field Descriptions

- Use SMS Notifications
  - You must check this box to activate SMS notification.
- Log To Incident
  - Check this box if you want to write to the incident log when a notification occurs.
- Triggers
  - Use the Select Trigger button to bring up the list of triggers you created in Trigger setup. Select one or more to associate them to the SMS notification.
  - Use the Remove Trigger button to remove a trigger from the SMS notification.
- From
  - Enter a valid email address. Most SMTP servers require that a 'from' field is provided.
- To
  - Enter a valid phone number to send the SMS notification to.

Configuring Notifications

Canned Message

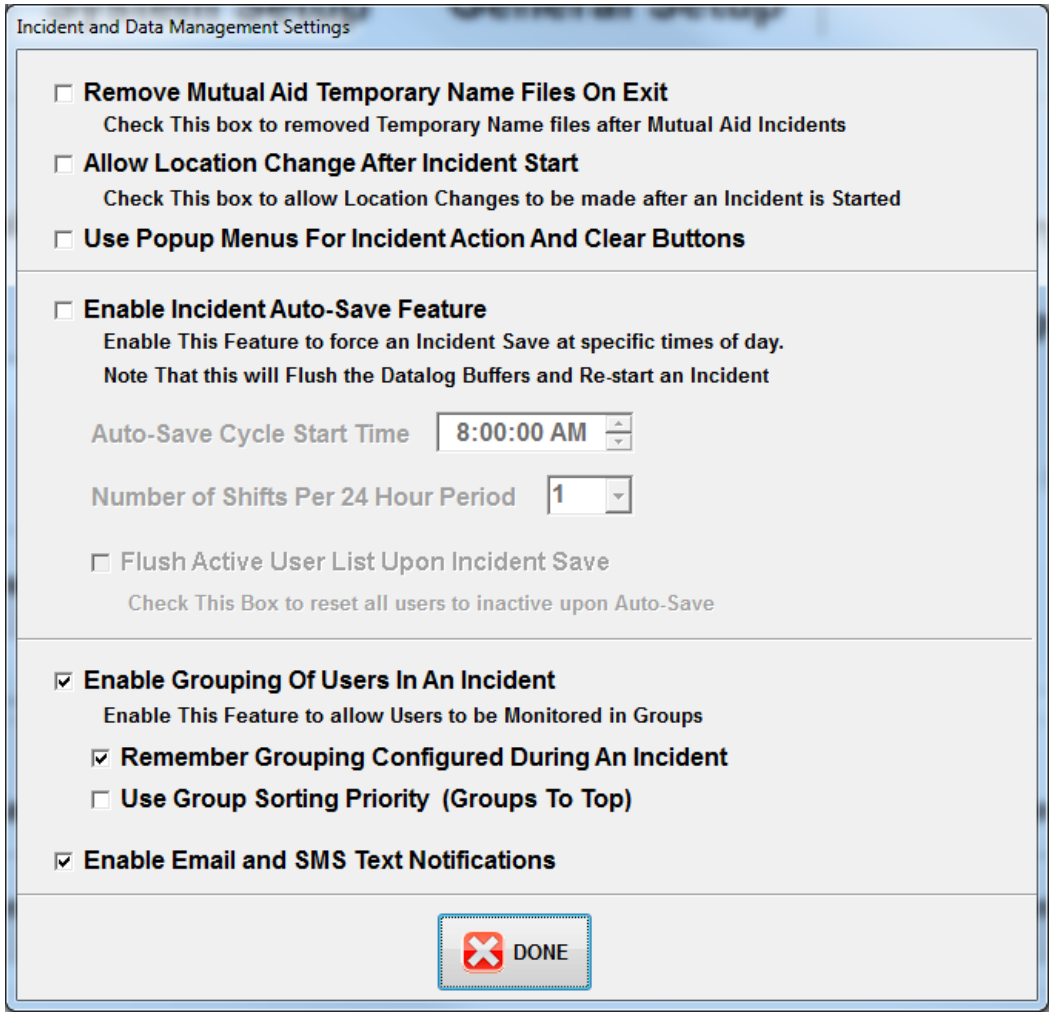


- Select the third tab on the notification configuration screen to setup a canned message notification.

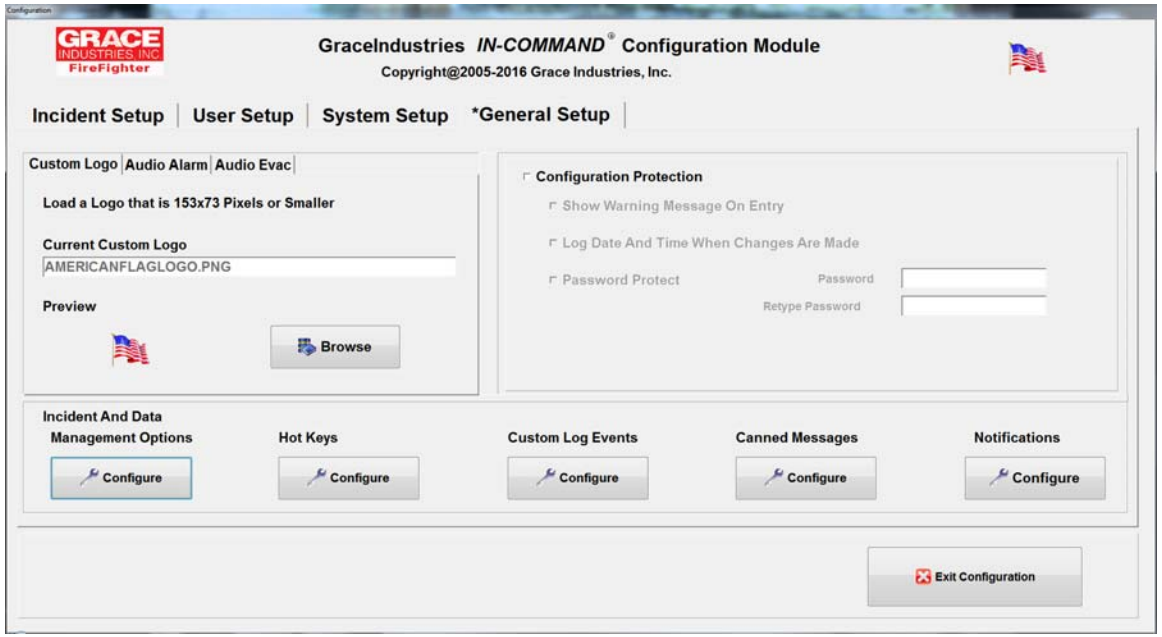
<u>Field Descriptions</u>

- Use Canned Message Notifications
  - You must check this box to activate canned message notification.
- Log To Incident
  - Check this box if you want to write to the incident log when a notification occurs.
- Triggers
  - Use the Select Trigger button to bring up the list of triggers you created in Trigger setup. Select one or more to associate them to the canned message notification.
  - Use the Remove Trigger button to remove a trigger from the canned message notification.
- Canned Message To Send
  - Select on or more messages to send using the Select Messages button.
- Remove Messages
  - Used to remove a message from the send list.

Incident and Data management



Done with Configuration

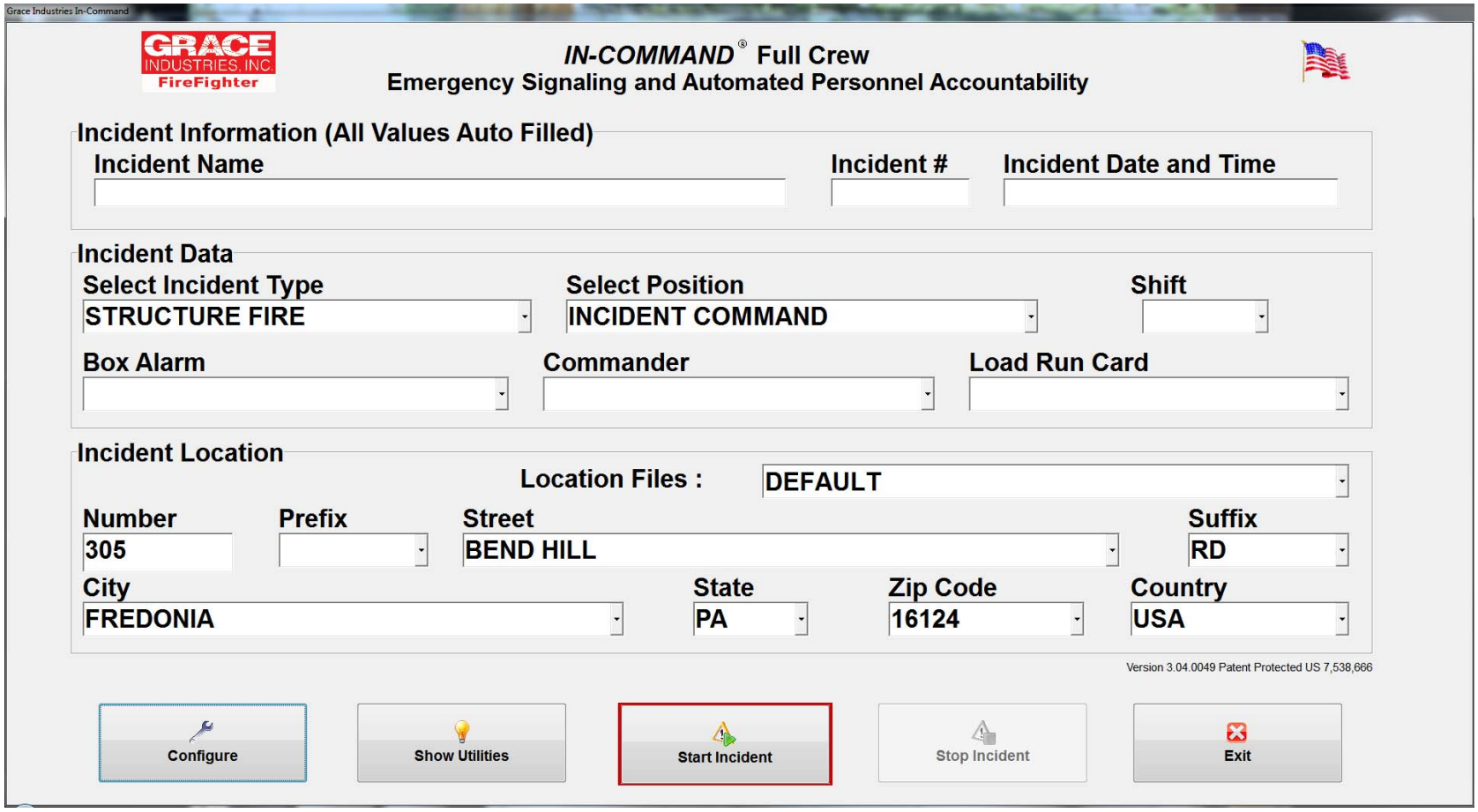


- **EXIT CONFIGURATION BUTTON**

  This button prompts the user to save changes. The user will be prompted with yes, no and cancel options. Choose “yes” to save changes, “no” to discard changes and “cancel” to remain in the configuration screen. After choosing “yes” or “no” the user will be returned to the Operations screen.

  Note that changes to name files, location files and canned messages are updated and saved immediately upon exit of the edit screens and aren't affected by this button.

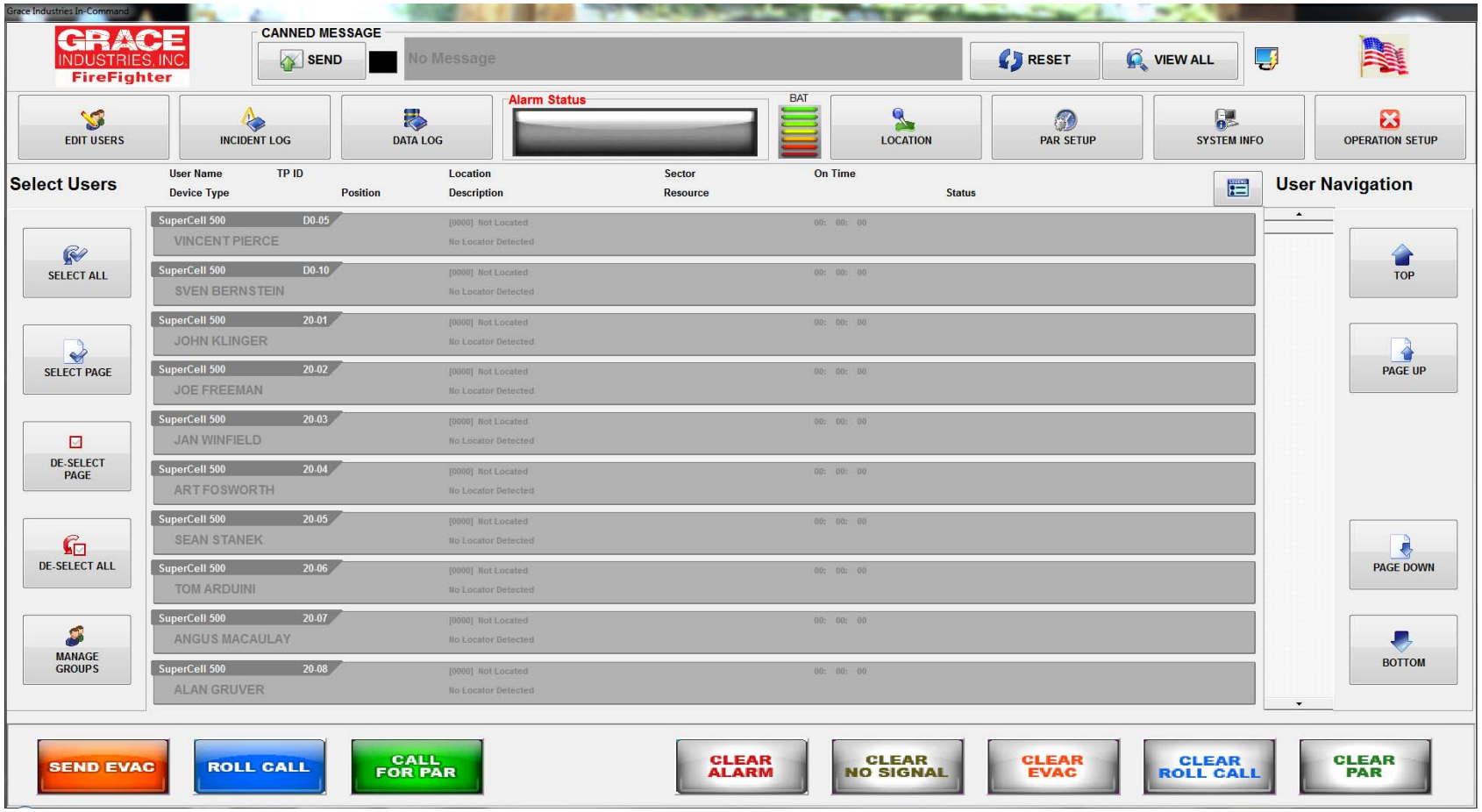
The Operation Setup Screen



Starting an Incident

- **Once the Configuration is complete, you are ready to start an Incident**
- **The only fields that need populated are the Incident Type and Position. These fields MUST be populated to access the Start Incident Button and start an incident.**
- **The Name, Incident Number and Time/Date fields are auto-filled once an Incident is started**
- **Selecting a location auto-fills all location fields**
- **Press the Start Incident Button to Advance to the Monitoring screen**

The Monitoring Screen



The Monitoring Screen

- **The Main Monitoring Screen has Four Major Areas:**
  - **The Main Bar (also contains the Alarm Box)**
  - **The Canned Message Bar**
  - **The Monitoring Window with users monitored, a Selection Bar and Navigation Bar**
  - **The Action Bar with action buttons and clear buttons**
- **Note that users are “grayed out” until they come online**
- **If the MX900-H communication is not established, a Communications Alarm will show up flashing red in the Alarm Box**

Managing an Incident

Incident Management from the Monitor Screen is efficiently achieved using the In-Command System.

All users initially start out "grayed out" with gray letters on a light grey background.

Users that check in to the In-Command system light up with a light yellow background and the active users are sorted the top of the user list based on Sort Priority.

Users may be selected and de-selected for sending commands to the users TPASS devices. Selection of users is performed by single clicking on the desired user or using the Selection Bar on the left of the screen. When a user is selected, his background will turn light blue to indicate the selection. To de-select the user, simply single click on the user or user the selection bar. Deselected users will return to a light yellow background. Note that you cannot select in-active users.

Active users will continue to populate the monitor screen until all users on scene are shown as active. Use to the navigation buttons and scroll bar on the right of the screen to move up and down the list of users.

If a user's TPASS device goes into alarm, an immediate alarm status image will be displayed in that user's block and the user will be sorted to the top of the screen. In addition, a flashing ALARM message will be displayed in the alarm status box. Once a TPASS alarm has been reset, the alarm status image may be cleared using the Clear Alarm button located on the action bar.

Evacuate, PAR and Roll Call Commands may be manually sent to the TPASS devices by selecting a user or user's and pressing the appropriate button on the action bar. A message will be transmitted to the TPASS device and the appropriate status image will be set. The user will then be sorted to the top of the screen. In addition, a flashing ALARM message will be displayed in the alarm status box.

PAR and Roll call commands can also be sent automatically to the TPASS devices at regular time intervals using the Auto PAR setup page and setting the desired parameters.

In addition, canned messages may be sent to SuperCELL devices using the canned messaging pager accessed using the Send Button in the canned messages box. Canned messages received from the SuperCELLs will be displayed in the canned message box display block.

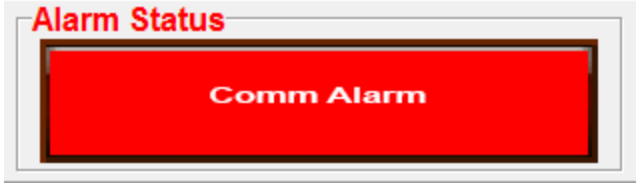
User assignments may be quickly changed by double-clicking on a user's block assignment column and displaying the User Assignment Dialog. User profiles may be quickly viewed by double-clicking on the user's block in the name column.

All incident events and radio messages are stored in the Incident log and the Radio data log during an incident. These logs are saved in an incident file and can be viewed at a later date using the In-Command Incident Viewer. The logs can be viewed at any time by pressing the appropriate buttons on the monitor main tool bar.

A snapshot of the incident details can be viewed at any time by pressing the View System Info button on the Main Monitor Bar.

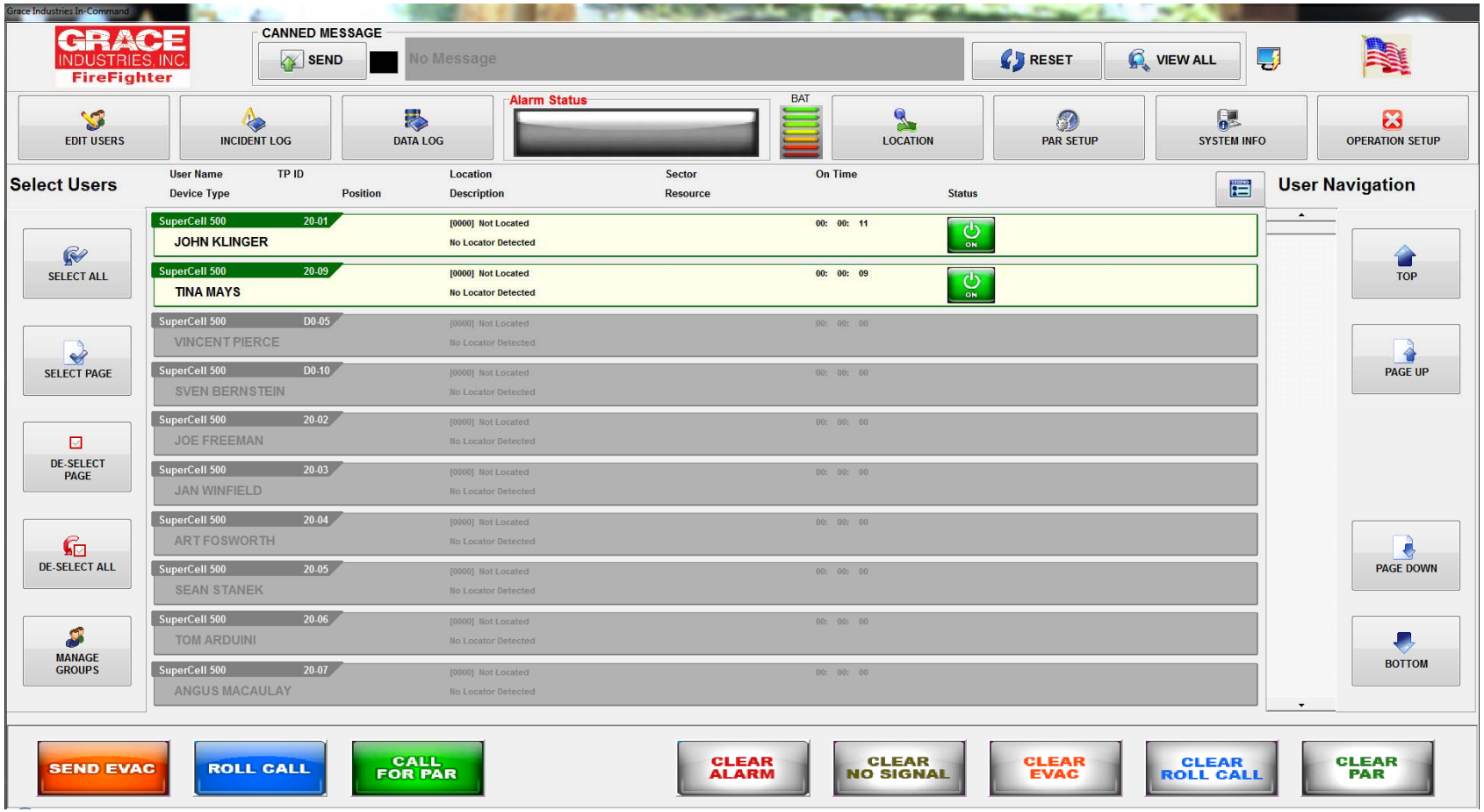
When an incident is complete, use the Operation Setup button to return to the Operation setup screen and press the stop incident button to stop and save all the incident data. The incident can later be viewed using the In-Command Incident Viewer.

Communications Fault



- **If the MX900-H or Watchdog Unit does not communicate at least once every 2 seconds with the computer, a Communication Fault will appear in the Alarm Status Box.**
- **The Communication Fault will clear automatically when communication is restored between the computer and the MX900-H or Watchdog.**

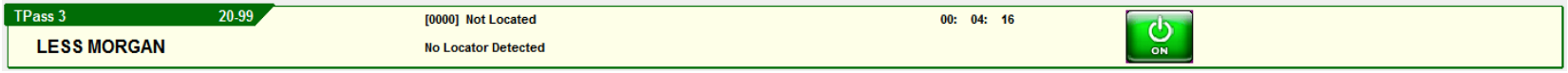
Monitor Screen with Active Users



Monitor Screen with Active Users

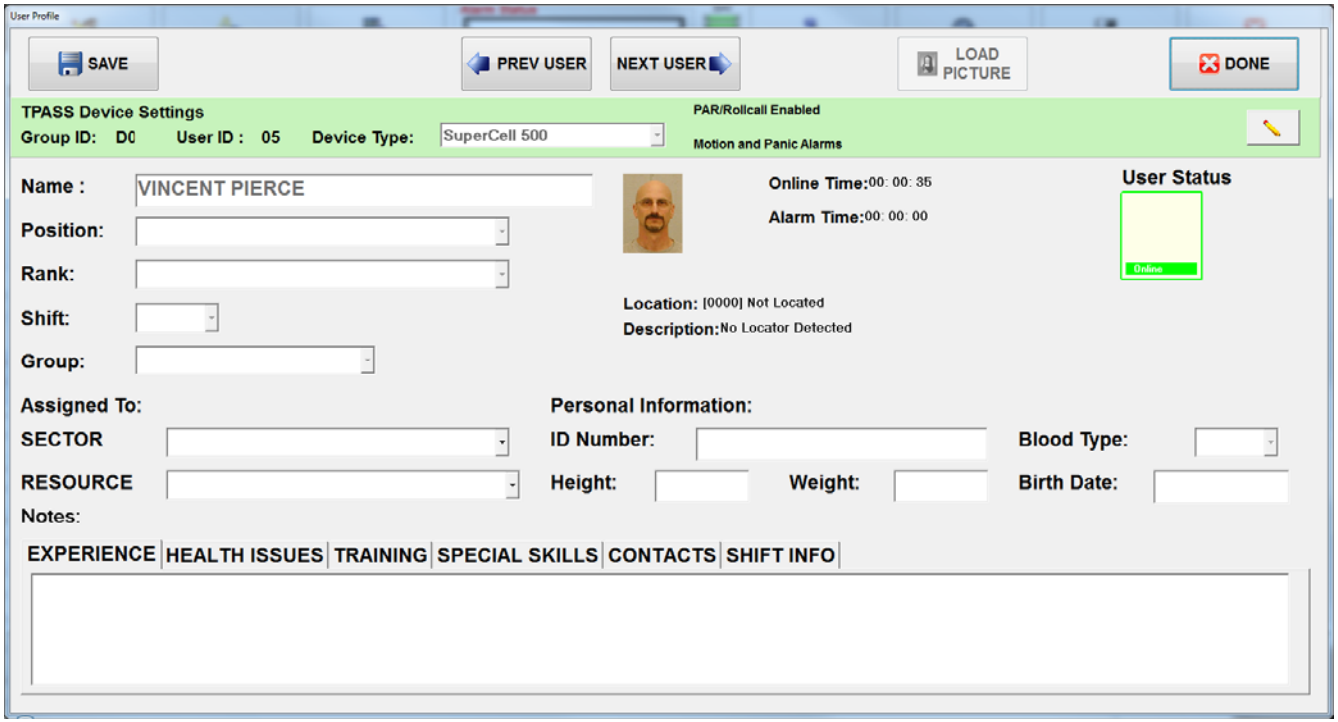
- **Users that are active will “light up” in the Status column shown on the right**
- **Users are sorted real-time based on status**
- **Alarm is the highest, followed by PAR, Roll Call, Auto PAR, No-Signal, PASS Device ON and PASS Device OFF**
- **The Monitor window may be scrolled down to see all users that are active on the system**

User Information Bar



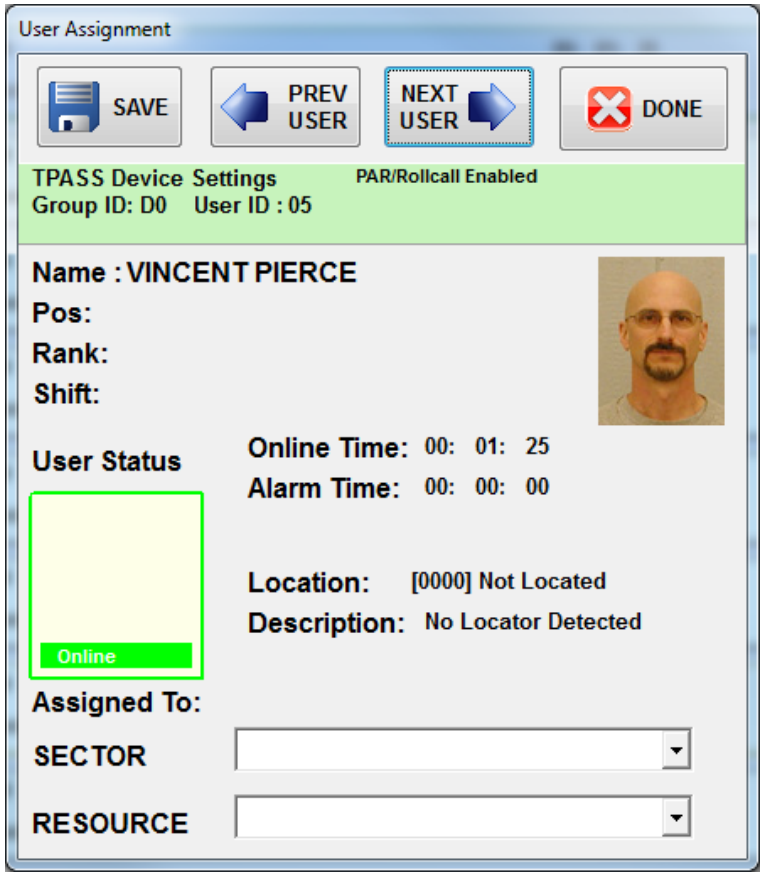
- Each user present on the system has a user information bar displaying the users Name, Group and User ID, Rank, Assignment, Online Time and status images
- User status images reflect the various functions of the user including Alarm, No Signal, Evacuate, PAR check and Roll Call
- User Profiles may be viewed quickly by double-clicking on the User Name column of the Information Bar
- User Assignments may be changed quickly by double-clicking in and around the user assignment column of the Information Bar

Viewing a User Profile



- **The User Profile may be quickly viewed from the monitor screen by clicking on that user's name column in the user's information bar**
- **When complete, press the Done Button to close**

The User Assignment Dialog

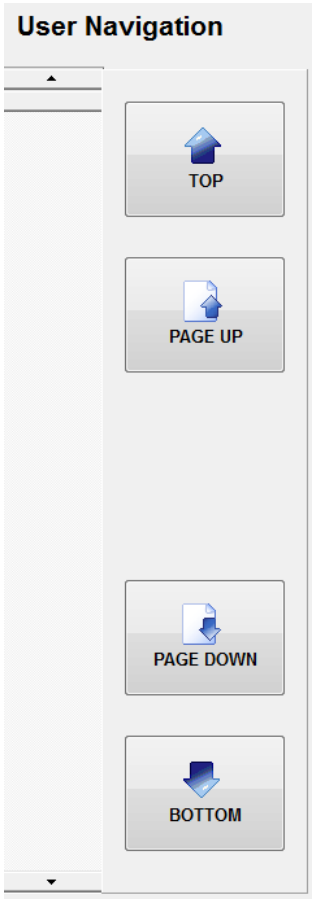


- Simply Select the Division/Group and Resource for the individual
- When complete, press the Save button
- Then select Previous or Next Button to adjust another individual or Press Done to close the dialog

Assigning Users

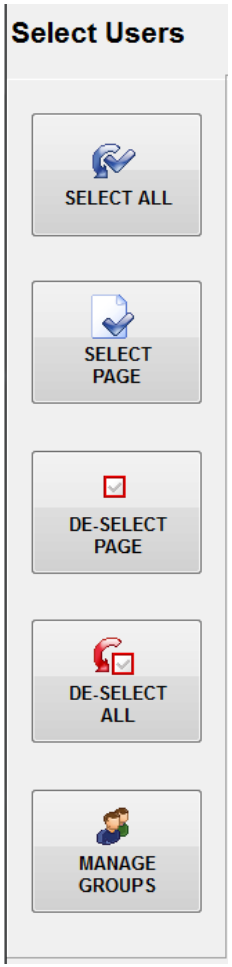
- **Users may be assigned to a Division and Sub-Division to help track their location and assignment during a work operation**
- **Users may be assigned at any time by clicking on the User's Assignment column in the Information Bar in the Monitor Area**

Navigating the Monitor Screen



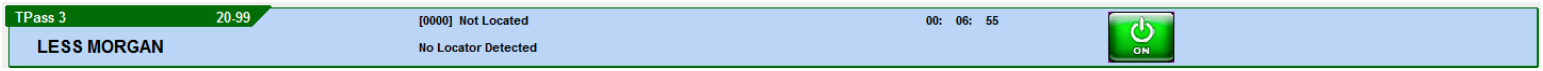
- The Monitor Window may be navigated using the Navigation Bar at the Right
- Use the Top Button to return quickly to the top of the list
- Use the Page Up button to move up ten users.
- Use the Page Down Button to move down ten users
- Use the Bottom Button to move to the end of the list
- Use the Scroll Bar to freely position anywhere within the list

Selecting a User or Users



- Users must be selected to perform an action such as Evacuation, PAR or Roll Call or clear a status condition such as Alarm, PAR, Roll Call, or No-Signal
- Only Active Users Can Be Selected
- Use the Select All button select all active users in the list
- Use the Select Page to select the ten users on the monitor screen
- Use De-select Page to de-select the ten users on the monitor screen
- Use De-Select All to de-select all users in the list
- You can also select a user by single-clicking on that user's information bar
- Single-clicking again will de-select that user

Selected Users will Turn Blue



- Note that users that are selected will show a blue background
- Multiple Users may be selected or de-selected at any one time
- Selection is used to perform actions on users
- Once an action is performed, the users are automatically deselected
- To perform another action, re-select the users
- This prevents selected users from being sorted off-screen and inadvertently being tagged for an action at a later time

User Status Images

- User Status Images give a quick visual representation of a user's status during an incident
- Status Images for In-Command and Grace-Watch Systems are:
  - On, Off, None (Only when user is inactive)
  - Alarm, Alarm Cleared
  - No-Signal, No-Signal Cleared
  - Roll Call Command, Roll Call Sent, Roll Call Rxd, Roll Call Ack
  - Status Images Specific to In-Command:
    - Evacuation, Evac Sent, Evac Rxd, Evac Ack
    - PAR Command, PAR Sent, PAR Rxd, PAR Ack
    - Auto PAR Command, Auto PAR Sent, Auto PAR Rxd, Auto PAR Ack
  - Status Images Specific to Grace-Watch:
    - Call-Back Command, Call-Back Sent, Call-Back Rxd, Call-Back Ack
    - Report-In Command, Report-In Sent, Report-In Rxd, Report-In Ack
    - Auto Report-In Command, Auto Report-In Sent, Auto Report-In Rxd, Auto Report-In Ack

On, Off or No Status

- **No Status – User In-Active, i.e. has not checked into the system**



- **<u>OFF</u> Status – User's SC500 OFF or TPASS-5 with Accountability Key in place and turned OFF**



- **<u>ON</u> Status – User's SC500 ON or TPASS-5 with Accountability Key removed and ON**



Alarm/Alarm Cleared Status Images

- Alarm Status Image –SC500 or TPASS-5 Device is in ALARM
- Caused by Button Press on SC500 or TPASS-5 device or from a Lack of Motion condition





- Alarm Cleared Status – Alarm has been cleared at Computer
- May be enabled or disabled from configuration

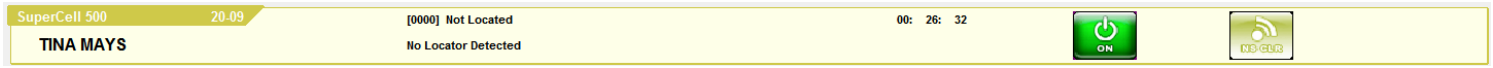


No-Signal / No-Signal Cleared Status

- **No-Signal Status Image – Indicates that we have not received a Message from a device within the No-Signal Time setting**
- **Default = 5 minutes**
- **Automatically Clears when a Message is received from the device**



- **No-Signal Cleared Status Image – No-Signal condition has been Manually cleared**
- **Places Marker for TPASS-5 devices in which signal is no longer present**



Evacuation Command* / Sent / Received / Acknowledge Status

(*Referred to as Call-Back in the Grace-Watch System)

- **Evacuation Command – An Evacuation has been commanded**



- **Evacuation Sent Status Image – A Evacuation Message has been sent to the TPASS-5 Device**



- **Evacuation Received Status Image – A Evacuation Received Message has been transmitted from the TPASS-5 device**



- **Evacuation Acknowledged Status Image – A Evacuation Acknowledge Message has been transmitted from the device**



PAR Command* / Sent / Received / Acknowledge Status

(*Referred to as Report-In in the Grace-Watch System)

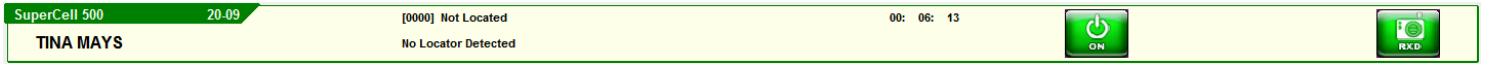
- **PAR Command – A PAR has been commanded**



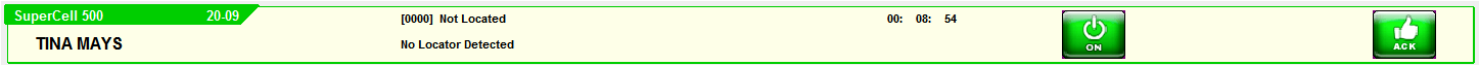
- **PAR Sent Status Image –A PAR Message has been sent to the TPASS-5 Device**



- **PAR Received Status Image – A PAR Received Message has been transmitted from the TPASS-5 device**



- **PAR Acknowledged Status Image – A PAR Acknowledge Message has been transmitted from the TPASS-5 device**



Auto PAR Command / Sent / Acknowledge Status

(*Referred to as Auto Report-In in the Grace-Watch System)

- **Auto PAR - Report Command – An Auto Report has been issued**



- **Auto PAR - Report Sent Status – An Auto PAR Message has been sent to the TPASS-5 Device**



- **Auto PAR – Report Received Status – A PAR Received Message has been transmitted from the TPASS-5 device**



- **Auto PAR - Report Acknowledged Status – An Auto Report Acknowledge Message has been Automatically transmitted from the TPASS-5 device**



Roll Call Command / Sent / Received / Acknowledge Status

- **Roll Call Command – A Roll Call has been commanded**



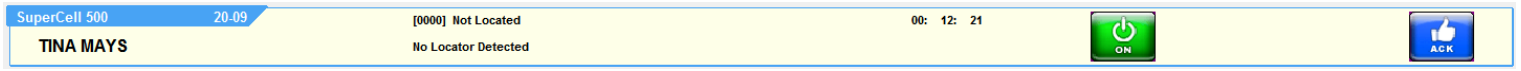
- **Roll Call Sent Status Image – A Roll Call Message has been sent to the TPASS-5 Device**



- **Roll Call Received Status Image – A Roll Call Received Message has been transmitted from the TPASS-5 device**



- **Roll Call Acknowledged Status Image – A Roll Call Acknowledge Message has been transmitted from the TPASS-5 device**



User Sort Priority

All users monitored on the Monitor screen are sorted real-time in the user name list by status priority, i.e. users with the highest status priority are sorted to the top of the list.

The following is an explanation of the various status priorities on the In-Command or Grace-Watch System sorted from highest priority to lowest priority:

Alarm Status

This status has the highest priority and will always be sorted to the top of the user list on the monitor screen.

No Signal status

This status has the second highest priority and will always be sorted to the top of the user list on the monitor screen just below users in alarm.

Evacuate or Call-Back status

These four status, including Evacuate / Call-Back Commanded, Evacuate / Call-Back Sent, Evacuate / Call-Back Received, and Evacuate / Call-Back Acknowledged have the next highest priority and will be sorted below Alarms and No Signals on the user list on the monitor screen.

Roll Call Status

These four status, including Roll Call Commanded, Roll Call Sent, Roll Call Received, and Roll Call Acknowledged have the next highest priority and will be sorted below Alarms, No Signals and Evacuates on the user list on the monitor screen.

PAR or Report-In Status

These four status, including PAR / Report-In Commanded, PAR / Report-In Sent, PAR / Report-In Received, and PAR / Report-In Acknowledged have the next highest priority and will be sorted below Alarms, No Signals, Evacuates and Roll Calls in the user list on the monitor screen.

Auto PAR or Auto Report-In Status

These four status, including Auto PAR / Report-In Commanded, Auto PAR / Report-In Sent, Auto PAR / Report-In Received, and Auto PAR / Report-In Acknowledged have the same priority as PAR and will be sorted below Alarms, No Signals, Evacuates and Roll Calls on the user list on the monitor screen.

User On Status

This status has the next highest priority in Mode 2 and will be sorted below Alarms, No Signals, Evacuates / Call-Backs, Roll Calls, PARs and Auto PARs, Report-Ins and Auto Report-Ins on the user list on the monitor screen. In Mode 1, this status will also be sorted below Off status.

User Off Status

This status has the next highest priority in Mode 2 and will be sorted below Alarms, No Signals, Evacuates / Call-Backs, Roll Calls, PARs and Auto PARs, Report-Ins and Auto Report-Ins, and On status images on the user list on the monitor screen. In Mode 1, this image will be sorted above the On status images.

Alarm Cleared Status

This status image has no effect on the priority score of a user and does not affect the sort order of the user on the monitor screen.

(Continued…)

User Sort Priority

Continued…

No Signal Cleared Status

This status has the lowest priority score of all online status images and will be sorted at the bottom of the online users on the monitor screen.

Micro-Repeater

These devices have their own range for the user id portion of their id and will always display below normal users in the same system id range.

Non-Active User

This is the state of a user that has not checked into the system. They are always sorted below the users that have checked into the system with any status listed above.

Users with Equal Priority

If multiple users have the same priority scores based on the above status's, then the users will be sorted within that score based on Group I.D. and User I.D.

System and Aux ID priority

The assigned ID adds another level to the sorting scheme. The highest priority would belong to the root system ID followed by the remaining system ID's and then the Auxiliary ID's would fall in line after that based on the order they are listed in system setups.

i.e. Alarms in the Root System ID and an Auxiliary ID would be grouped together, but the Root System ID alarm would take precedence and display on top.

Mode 1 vs. Mode 2

The mode used for sorting can be configured on the System Setup Screen of the Configuration Module. There are two options:

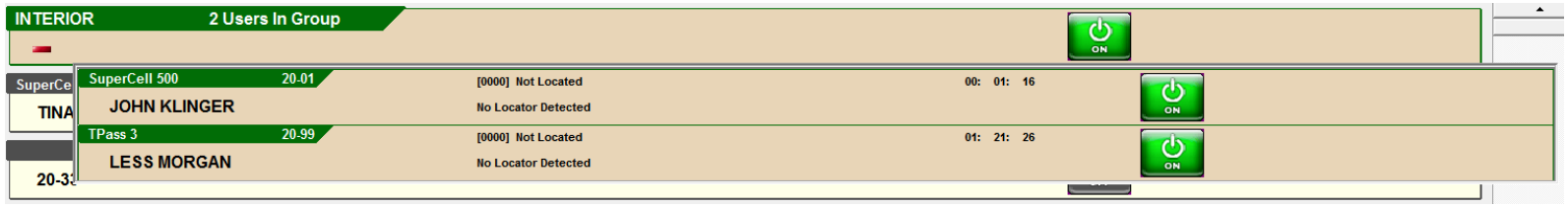
MODE 1: OFF HIGHER THAN ACTIVE

MODE 2: ACTIVE HIGHER THAN OFF

These two options reverse the order in which On and Off units are displayed. With Mode 1, all Off units display above On units. Mode 2 is the reverse of this with On units on top. Mode 2 is the most commonly used mode.

Note: Regardless of which mode is chosen, all other sorting rules will apply.

Grouping



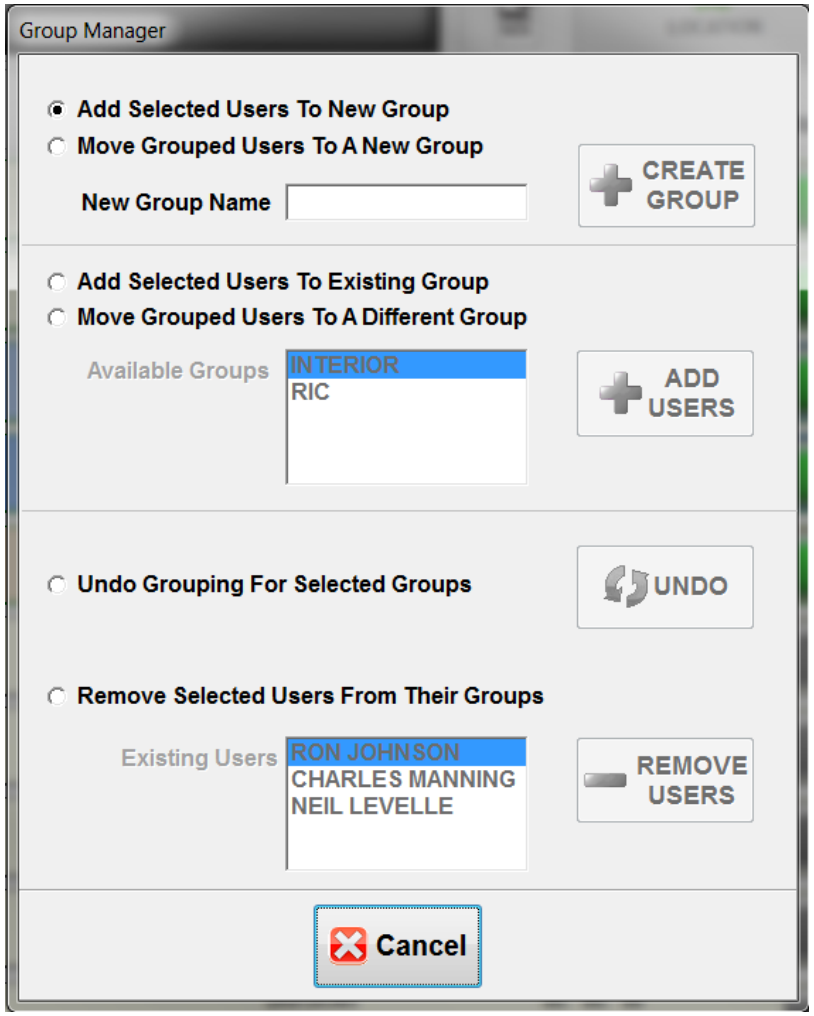
- Grouping is the ability to combine users into groups for display purposes in the incident monitoring screen.
- In this example we have 3 users in a group called ‘INTERIOR’
- Groups can be collapsed so that you only see the group as an item in the monitored list. The example above shows the group expanded so that you can see the details for each user.
- The Group displays status images just like a user does except the images displayed are calculated from the users that the group contains.

Grouping

Continued

- The order of users within the group is determined by the incident priority configuration. This is the same ordering that the incident uses.
- The order of a group within the incident is determined by the groups status images and will follow normal priority as configured.
- Selecting a group and performing an operation such as Evac, Roll Call and Par will apply the action to all of the active users within the group.
- Users within a group cannot be individually selected, so individual operations cannot be performed.
- There is no notion of grouping outside the incident monitoring screen. What this means is that when you look at logs, they will reflect individual users as you would normally see.

Managing Groups



Managing Groups

Continued

- **The Group Manager dialog is invoked by selecting a user, group or both within the incident monitoring screen and then pressing the Manage Groups button.**
- **The available options are determined by what has been selected.**

Options

- **Add Selected Users to New Group.**
  - **Enabled whenever an individual user is selected. Type a new group name in the box provided and press Create Group.**
- **Move Grouped Users To A New Group.**
  - **Enabled when a group is selected. Type a new group name and press the Create Group button.**

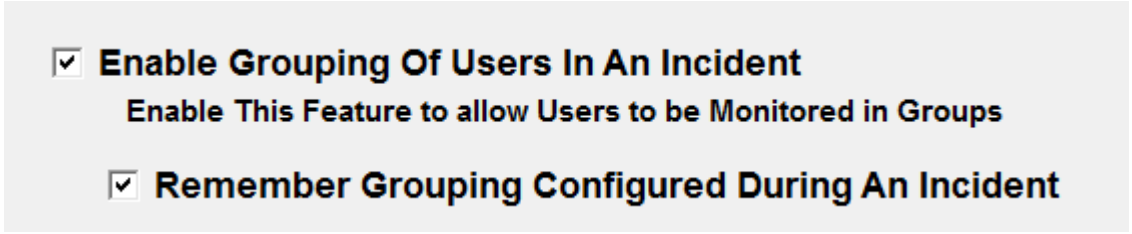
Managing Groups

Continued

Options Continued

- **Add Selected Users To Existing Group.**
  - Enabled when one or more users are selected and there are available groups. Select a group and press the Add User button.
- **Move Grouped Users To A Different Group.**
  - Enabled when a group is selected and there are available groups. Select a group and press the Move Users Button.
- **Undo Grouping For Selected Groups.**
  - Enabled whenever a Group is selected. Press the Undo button to undo the grouping.
- **Remove Selected Users From Their Groups.**
  - Enabled when a group is selected. This allows you to remove individual users from a group. Select the users to remove and press the Remove Users button.

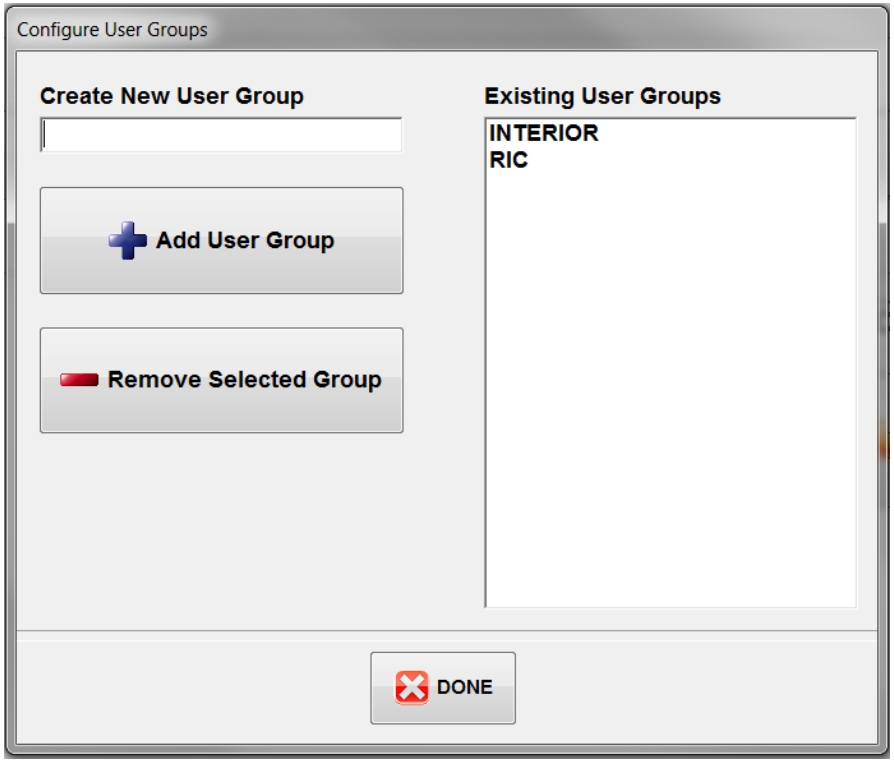
Group Configuration



- In Configuration/General Setup/Incident And Data Management Options, you can turn the grouping feature on and off by checking the Enable Grouping Checkbox.
- The second checkbox is only enabled when grouping is enabled and lets you choose whether changes made to grouping during and incident are retained.
  - If this checkbox is not checked, you will have to pre configure your grouping. This is done by creating Groups (See next page) and configuring each user to belong to a group. This is done in the User edit screen under configuration.
  - When checked, this tells the system that any changes made to grouping during an incident will be maintained. You can create groups and assign users to groups from the manage groups screen which is available during an incident by selecting a group or user and pressing the button.

Group Configuration

Continued



- **Group Names can be pre configured by going into Configuration/User Setup and choosing the Groups button. Here you can add or remove groups from the list.**

Performing Actions on User(s)



- **The Monitor Action Bar is located at the Bottom of the screen and allows Action to be performed on Active User(s) in the list**
- **User(s) must be selected before an action can be performed**
- **Actions Available are:**
  - **Send Evacuation or Call-Back***
  - **Call for Par or Report-In***
  - **Call for Roll Call**
  - **Clear Alarm**
  - **Clear No-Signal Condition**
  - **Clear Roll Call**
  - **Clear PAR or Report-In***
  - **Clear Evacuation or Call-Back***
- ***Note: Grace-Watch Systems will have Call-Back and Report-In buttons. Examples and Screenshots on following pages will use Evacuation and PAR terminology taken from the In-Command System.***

Evacuating a User(s)

***Referred to as Call-Back in the Grace-Watch System**



- **Select User(s) to be Evacuated**
- **Press and hold the Send Evac Button for .5 seconds (or longer than the hold time set in configuration)**
- **Watch as Evacuate Commands are Initiated and Sent to the selected user(s)**
- **Watch for the Evacuate Received Status Image for each user being evacuated to be achieved, indicating the TPASS device has received the signal**
- **Watch Evacuate Acknowledge Status Image for each user being evacuated to be achieved, indicating the user has pressed his side reset buttons to acknowledge the Evacuate Command**

Clearing an Evacuate Command

***Referred to as Call-Back in the Grace-Watch System**



- **Select User(s) to have their Evacuate Status Images cleared**
- **Press and hold the Clear Evac Button for one second (or longer than the hold time set in configuration)**
- **Watch as Evacuate Status Images are Cleared from the Monitor Screen**

Performing a Manual PAR

***Referred to as Report-In in the Grace-Watch System**



- **Select user(s) to contact for Manual PAR**
- **Press and hold the Call For PAR Button for .5 seconds (or longer than the hold time set in configuration)**
- **Watch as PAR Commands are Initiated and Sent to the selected user(s)**
- **Watch for the PAR Received Status Image for each user being contacted for PAR to be achieved, indicating the TPASS device has received the signal**
- **Watch PAR Acknowledge Status Image for each user being contacted for PAR to be achieved, indicating the user has pressed his side reset buttons to acknowledge the PAR Command**

Clearing an Manual PAR

***Referred to as Report-In in the Grace-Watch System**



- **Select User(s) to have their PAR Status Images cleared**
- **Press and hold the Clear PAR Button for one second (or longer than the hold time set in configuration)**
- **Watch as PAR Status Images are Cleared from the Monitor Screen**

Performing a Roll Call



- Select User(s) to contact for Roll Call
- Press and hold the Roll Call Button for .5 seconds (or longer than the hold time set in configuration)
- Watch as Roll Call Commands are Initiated and Sent to the selected users or users
- Watch for the Roll Call Received Status Image for each user being contacted for Roll Call to be achieved, indicating the TPASS device has received the signal
- Watch Roll Call Acknowledge Status Image for each user being contacted for Roll Call to be achieved, indicating the user has pressed his side reset buttons to acknowledge the Roll Call Command

Clearing a Roll Call



- Select User(s) to have their Roll Call Status Images cleared
- Press and hold the Clear Roll Call Button for one second (or longer than the hold time set in configuration)
- Watch as Roll Call Status Images are Cleared from the Monitor Screen

ALARM Conditions





- When a user goes into ALARM, that user will be immediately sorted to the top of the list, with it's Alarm Status Image showing
- The Alarm Status Box at the top of the screen will show a flashing red alarm active message



Once a User has reset the ALARM condition at the TPASS-5 device, you can clear the alarm condition on the screen by selecting that user(s) and holding the Clear Alarm Button for one second

User(s) will be sorted to normal priority position in the list



No Signal Condition



- When a message has not been received from a TPASS-5 device within the No-Signal Timeout (default = 5 minutes), the No-Signal Status will appear and the user(s) will be sorted to the top of the list



If a message from the TPASS-5 device in No-Signal is received, the No-Signal Condition will be cleared automatically

To Manually Clear the No Signal Condition, select the User(s) and hold the Clear No-Signal Button for 1 second



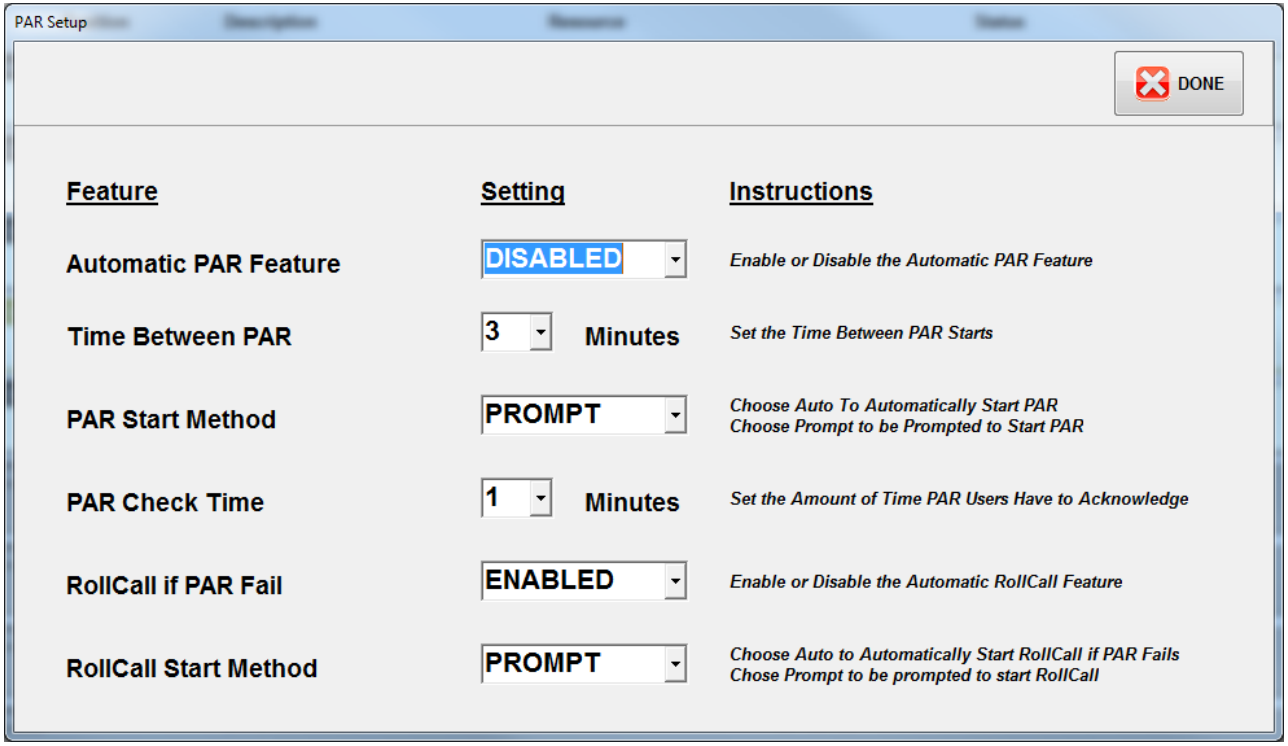
Monitor Main Bar



- The Monitor Main Bar located at the Top of the Screen contains the ALARM Status Box along with functionality to Edit User(s), View Incident Log, View Data Log, System Info. and Location information, and to PAR Setup
- It also contains the Operation Setup button to return to operation setup and save or cancel an incident
- The Auto PAR feature is a great way to perform PAR checks at regular intervals with minimal time and labor required

Auto PAR Setup

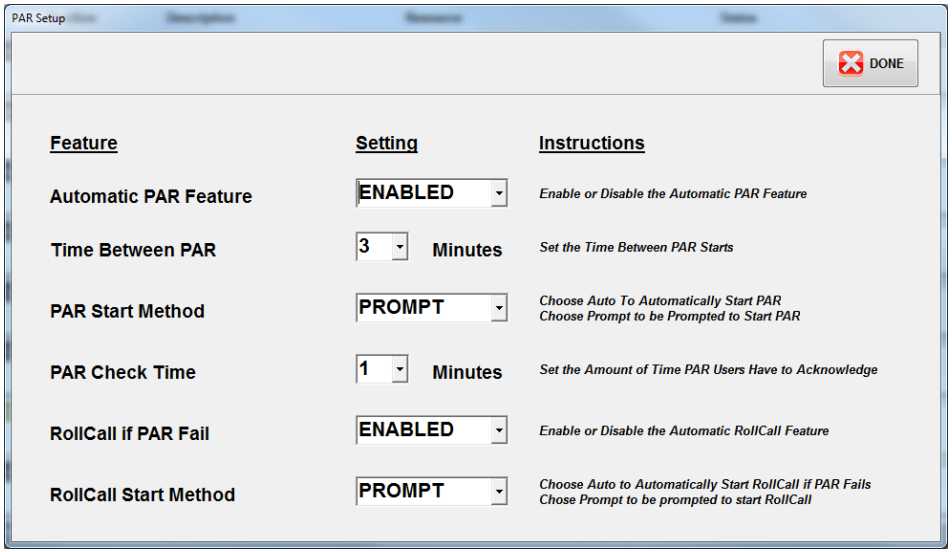
***Referred to as Auto Report-In in the Grace-Watch System**



- **Press the PAR Setup button on Main Bar (the above dialog will appear)**
- **Automatic PAR must be enabled and setup before use**

Auto PAR Setup

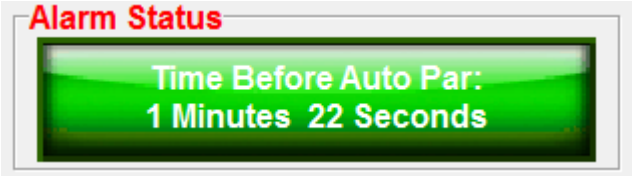
***Referred to as Auto Report-In in the Grace-Watch System**



- **Set the Time Between PAR to the number of minutes between automatic PAR checks (Typically 15 Minutes)**
- **Set the PAR Start Method to Prompt or Automatic, depending on preference (Prompt will Prompt the user before Auto PAR starts)**
- **Set the PAR Check Time to the time limit that all PAR responses should be received in order to recognize the PAR check as successful**
- **Set the PAR Feature to Enabled and Press the Done Button**

Automatic PAR Countdown

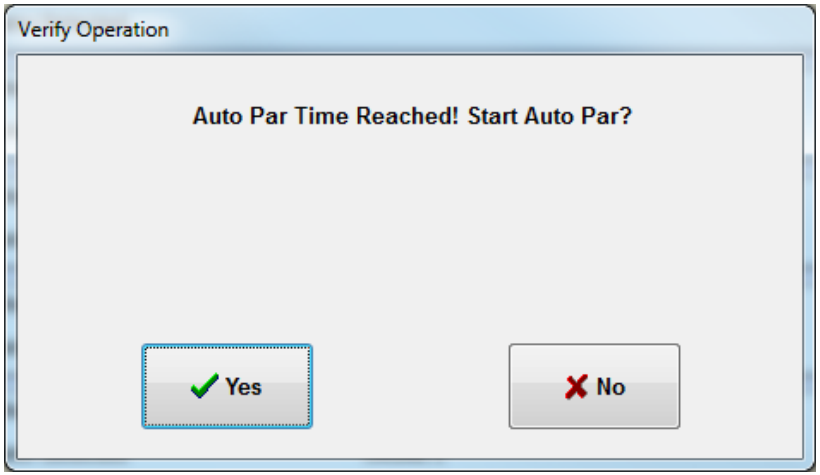
***Referred to as Auto Report-In in the Grace-Watch System**



- **Once the Auto PAR is enabled, notice that the Alarm Status Box will display the remaining time before the PAR is initiated**
- **If an Alarm occurs, the Alarm Message will be displayed over top of the Auto PAR Count**

Automatic PAR Time Reached

***Referred to as Auto Report-In in the Grace-Watch System**



- **Once the PAR Time reaches zero, the PAR check will begin automatically if the PAR start method is set to Automatic**
- **Otherwise the above message will appear**
- **Selecting Yes will start the PAR check**
- **Selecting No will reset the PAR timer to the PAR Check time value and begin counting down once again**

Automatic PAR Started

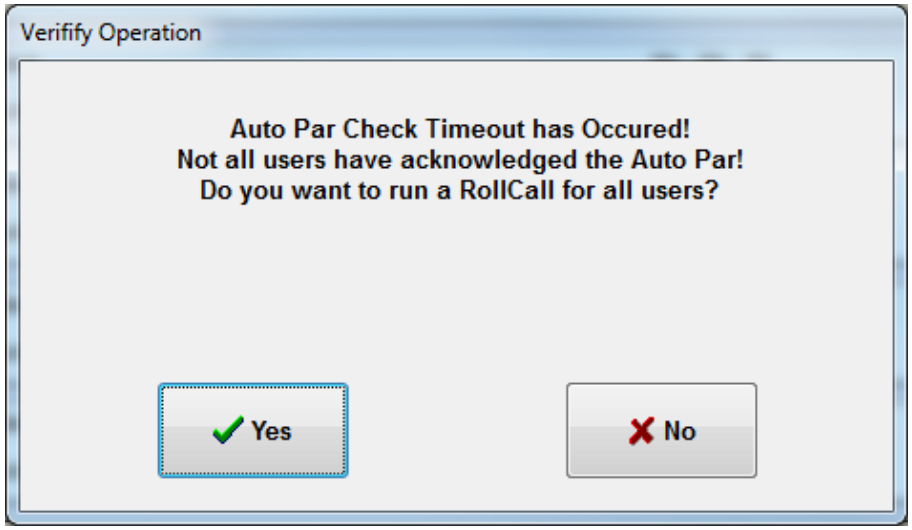
***Referred to as Auto Report-In in the Grace-Watch System**



- **Each Active User will be commanded for Auto PAR and a message will be sent to the TPASS-5 device**
- **Each TPASS-5 device silently recognizes the Auto PAR signal and automatically responds with an acknowledge signal**
- **Auto PAR commands will be sent until all users have responded with an Acknowledge**
- **If all users do not respond within the PAR check time, the PAR check should be considered as Failed**
- **Auto PAR Status Images must be cleared using the Clear PAR button**
- **If a new Auto PAR check starts, all Auto PAR Status are cleared automatically**

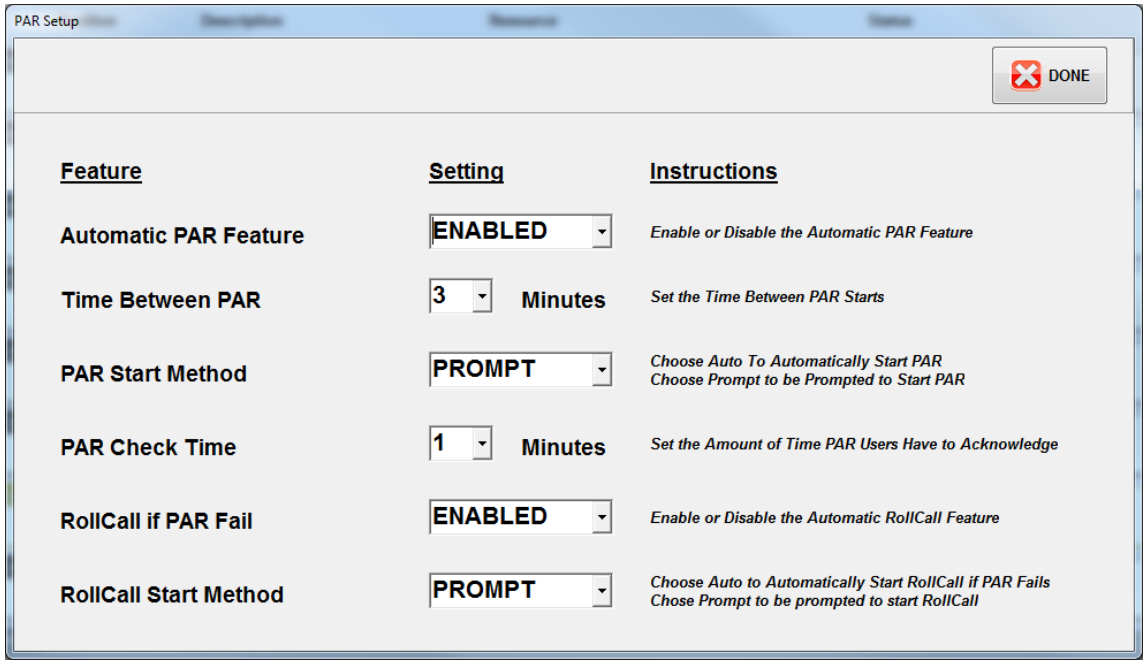
Auto PAR Check Failure

***Referred to as Auto Report-In in the Grace-Watch System**



- **Should an Auto PAR check Fail, i.e., not all users have acknowledged within the PAR check time, a Roll Call should be initiated, either using the PAR button on the Action Bar, or by setting up the Auto Roll call feature in the PAR setup area, which will display the above prompt before starting Auto Roll Call**

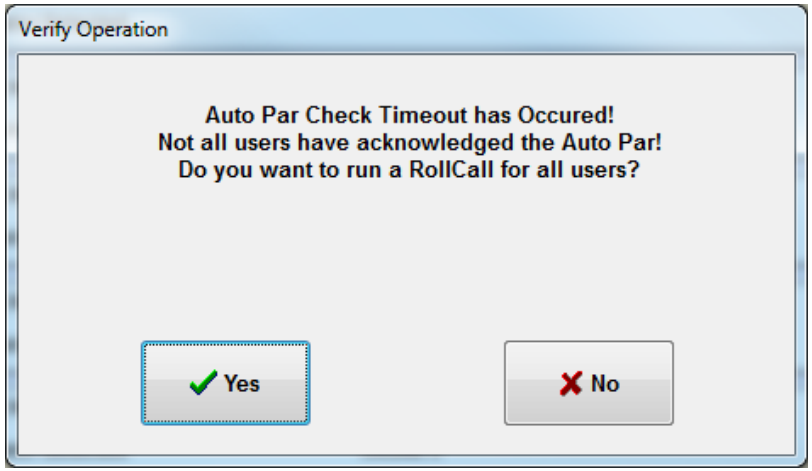
Setting up Auto Roll Call



- **Press the PAR Setup button on the Main Bar and the above Dialog will appear**
- **Automatic Roll Call must be enabled and setup before use**

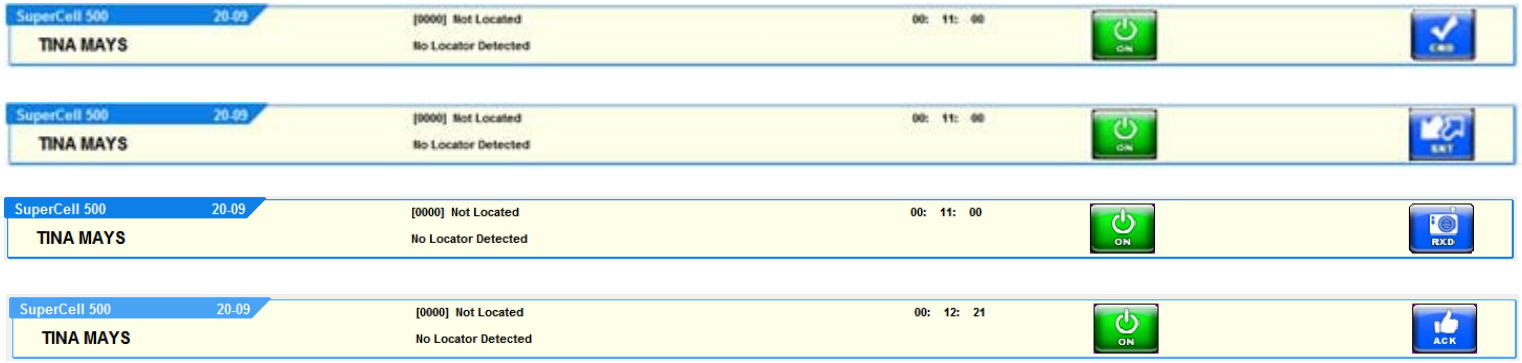
Automatic PAR Time Reached

***Referred to as Auto Report-In in the Grace-Watch System**



- **Once a PAR check has failed, the Auto Roll Call will begin automatically if the Roll Call start method is set to Automatic**
- **Otherwise the above message will appear**
- **Selecting Yes will start the Auto Roll Call**
- **Selecting No will reset the PAR timer to the PAR Check time value and begin counting down once again**

Automatic Roll Call Started



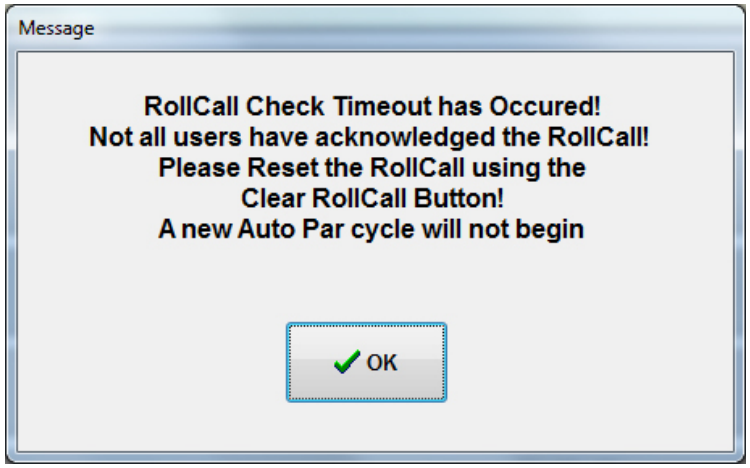
- **Each Active User will be commanded for Auto Roll Call and a message will be sent to the TPASS-5 device**
- **Each TPASS-5 device silently recognizes the Auto Roll Call signal, goes into audible alarm and automatically responds with a received signal**
- **As Each TPASS-5 User acknowledges Roll Call, the Roll Call Ack will appear**

Automatic Roll Call Started

Continued

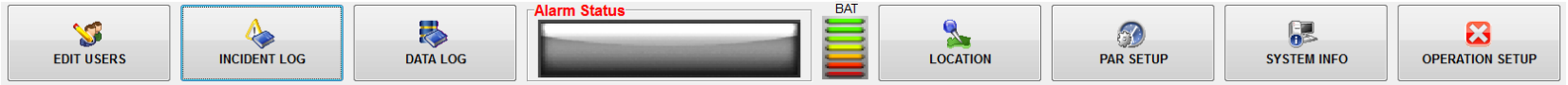
- Auto Roll Call will be sent until all users have responded with an Acknowledge
- If all users do not respond within the PAR check time, the Roll Call check should be considered as Failed
- Roll Call status must be cleared using the Clear Roll Call button
- All Roll Call must be cleared before a new Auto PAR check time can start

Auto Roll Call Failure



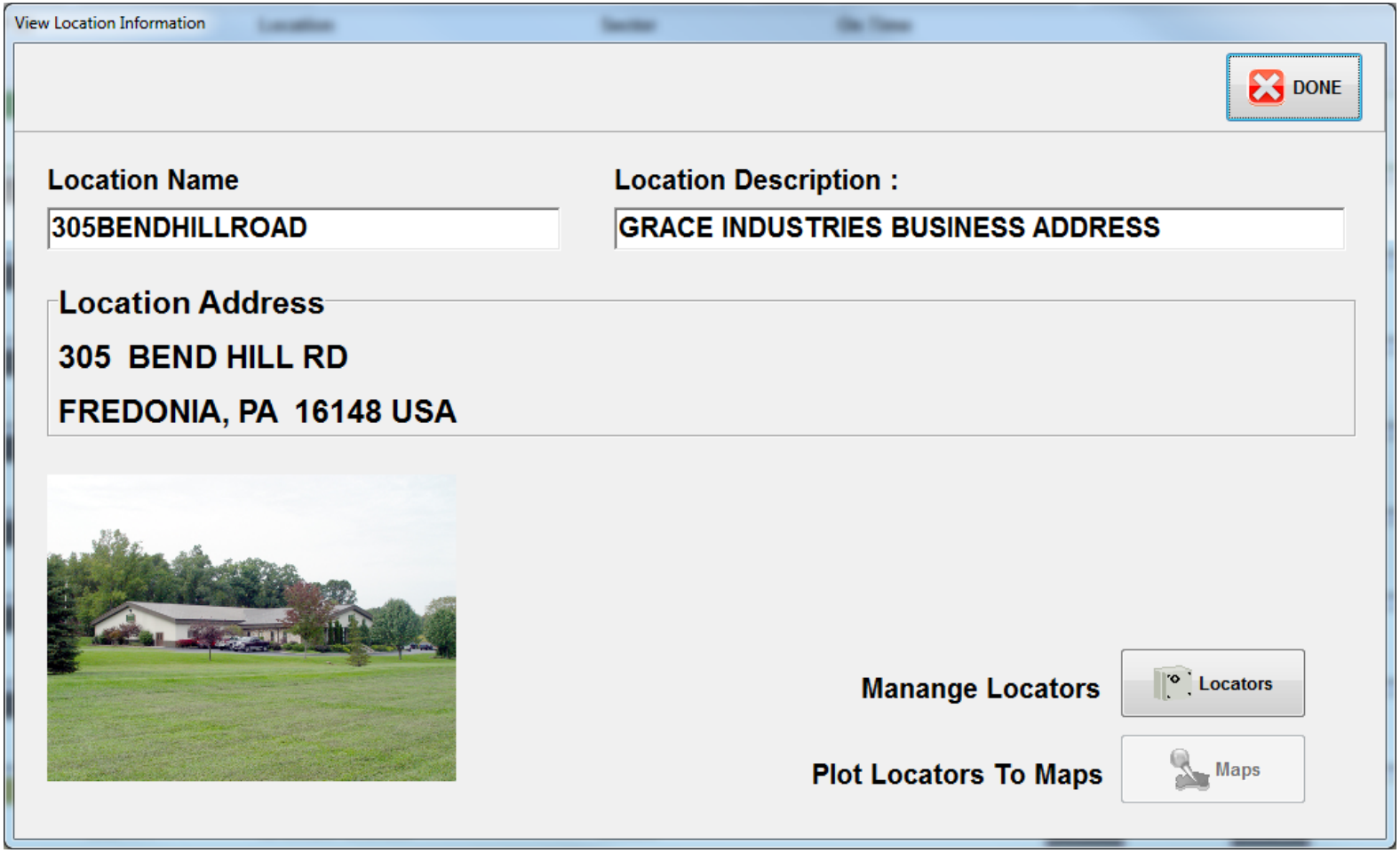
- Should the Roll Call check fail, it either means that the user(s) that have not responded are either unable to or out of range
- In either case, an active check on that user(s) should be performed
- It may be desirable to perform an Evacuate if a Roll Call check fail
- Note once again that a new PAR check will not begin until the Roll Call Status have been cleared using the Clear Roll Call Button

Viewing Location Information



- **Location Information may be viewed for the incident at any time by selecting the View Location Button from the Main Bar**
- **Note that Locations must have been created in Configuration and loaded from the Operation Setup Screen to be Viewed**

Location View Dialog

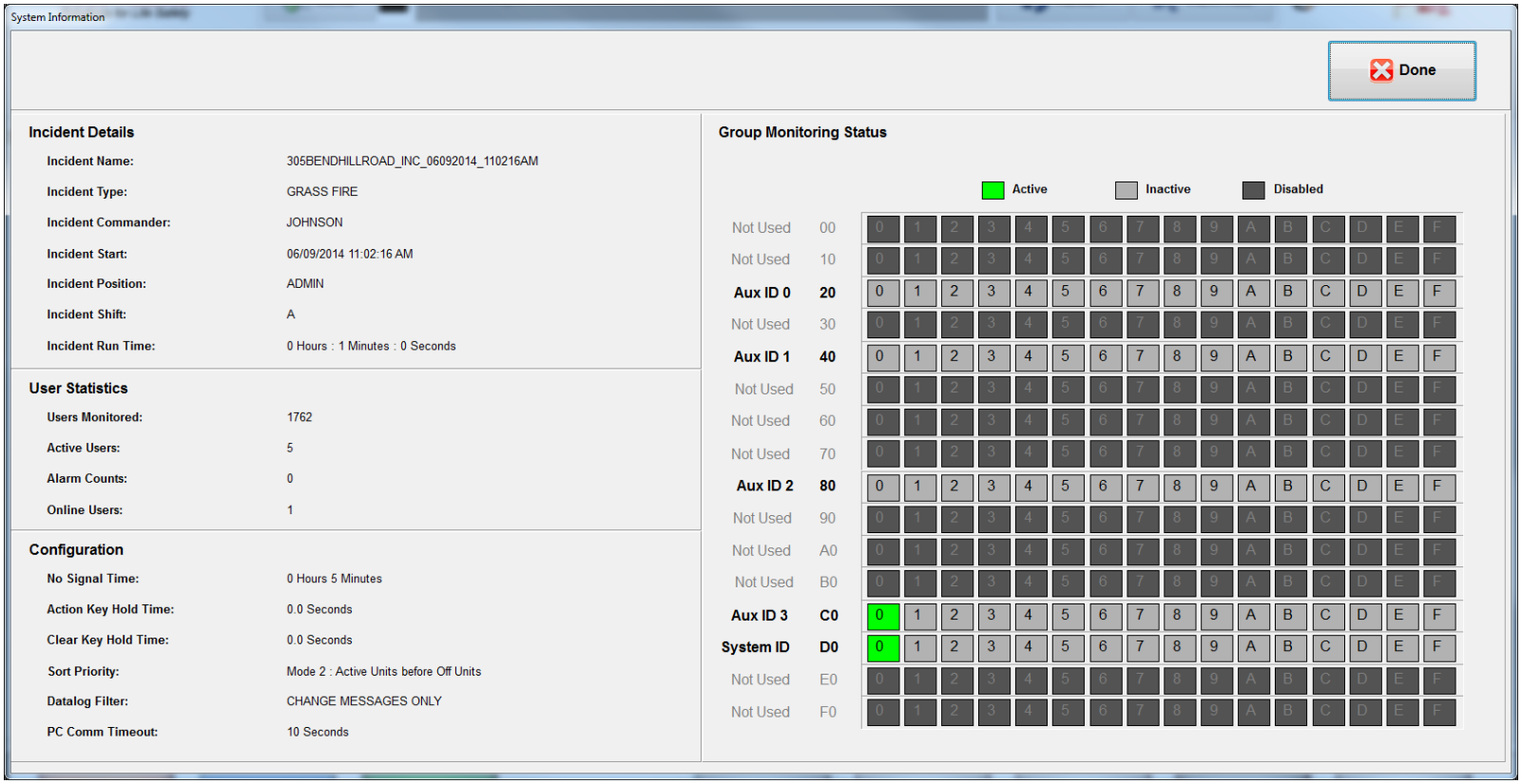


Viewing System Information



- System Information may be viewed at anytime for the incident by Pressing the View System Info Button on the Main Bar
- System Information contains Incident Details, Active groups and user count, System and Aux I.D. values and Options set on the system

System Information Dialog

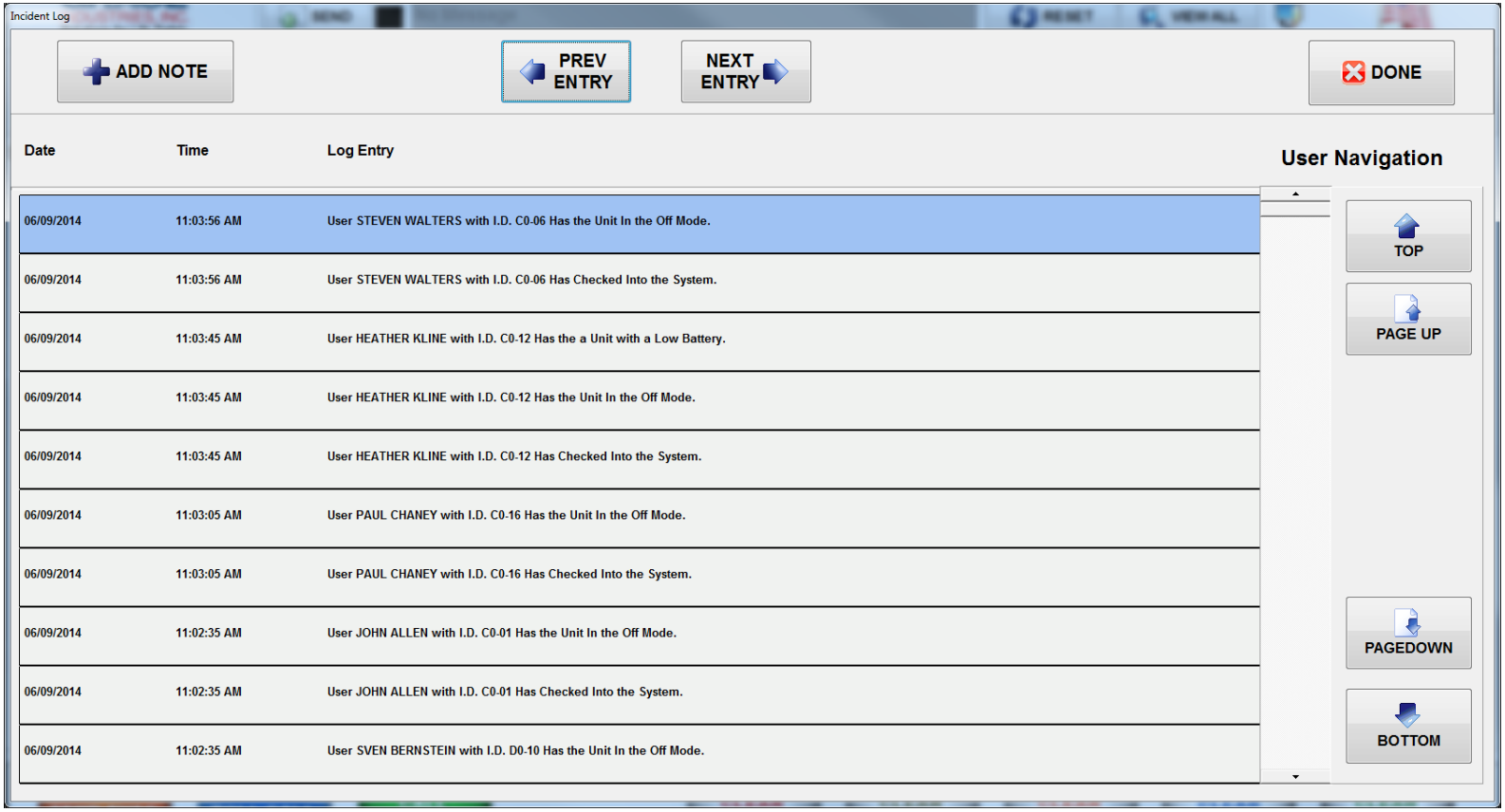


Viewing the Incident Log

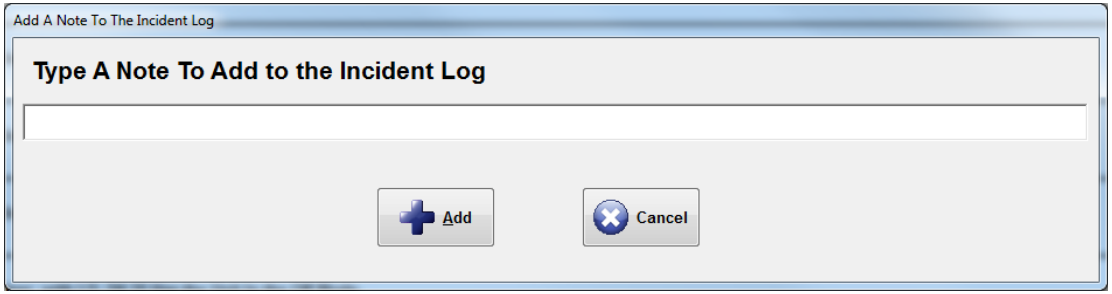


- A complete log of important incident events is kept with time and date stamps and may be viewed at any time during the incident by pressing the View Incident Log Button on the Main Bar
- Important events during the incident are automatically logged with a time and date stamp in an easy-to-read sentence format

The Incident Log



Adding Custom Notes to the Incident Log



- Custom Notes can be Added to the Incident Log at any time by pressing the Add Note Button from the Incident Log Dialog
- Simply type the note on the line provided and press Add
- The Note will be added to the Incident Log with a Time and Date Stamp

Viewing the Data Log – Radio Data



- A complete log of the SuperCELL or TPASS radio messages received is kept with time and date stamp and may be viewed at anytime during the incident by pressing the View Incident Log Button on the Main Bar
- Radio messages are logged either by change messages only or all messages depending on configuration
- Canned messages received are also logged

The Radio Data Log

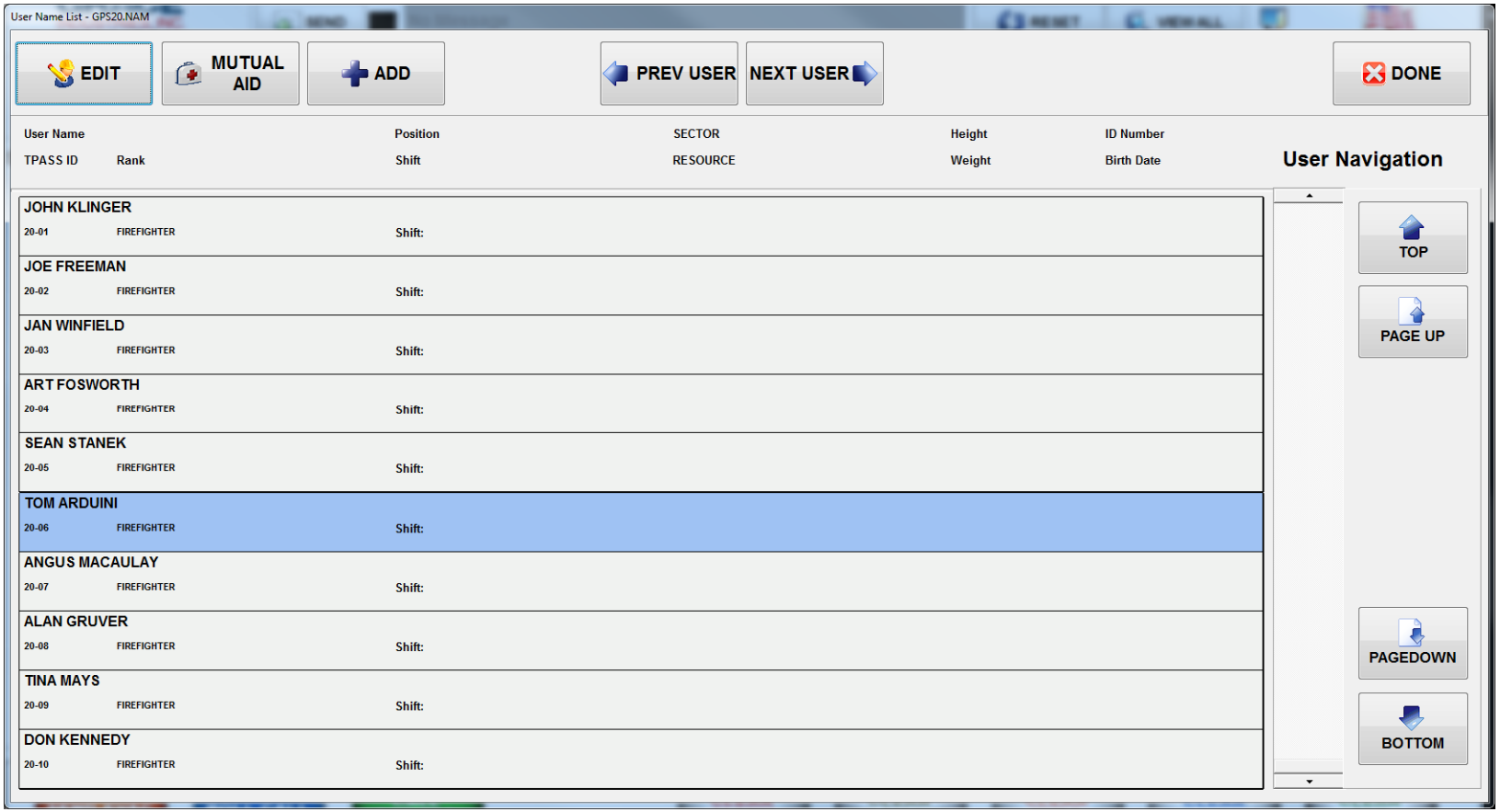


Editing User Information During an Incident

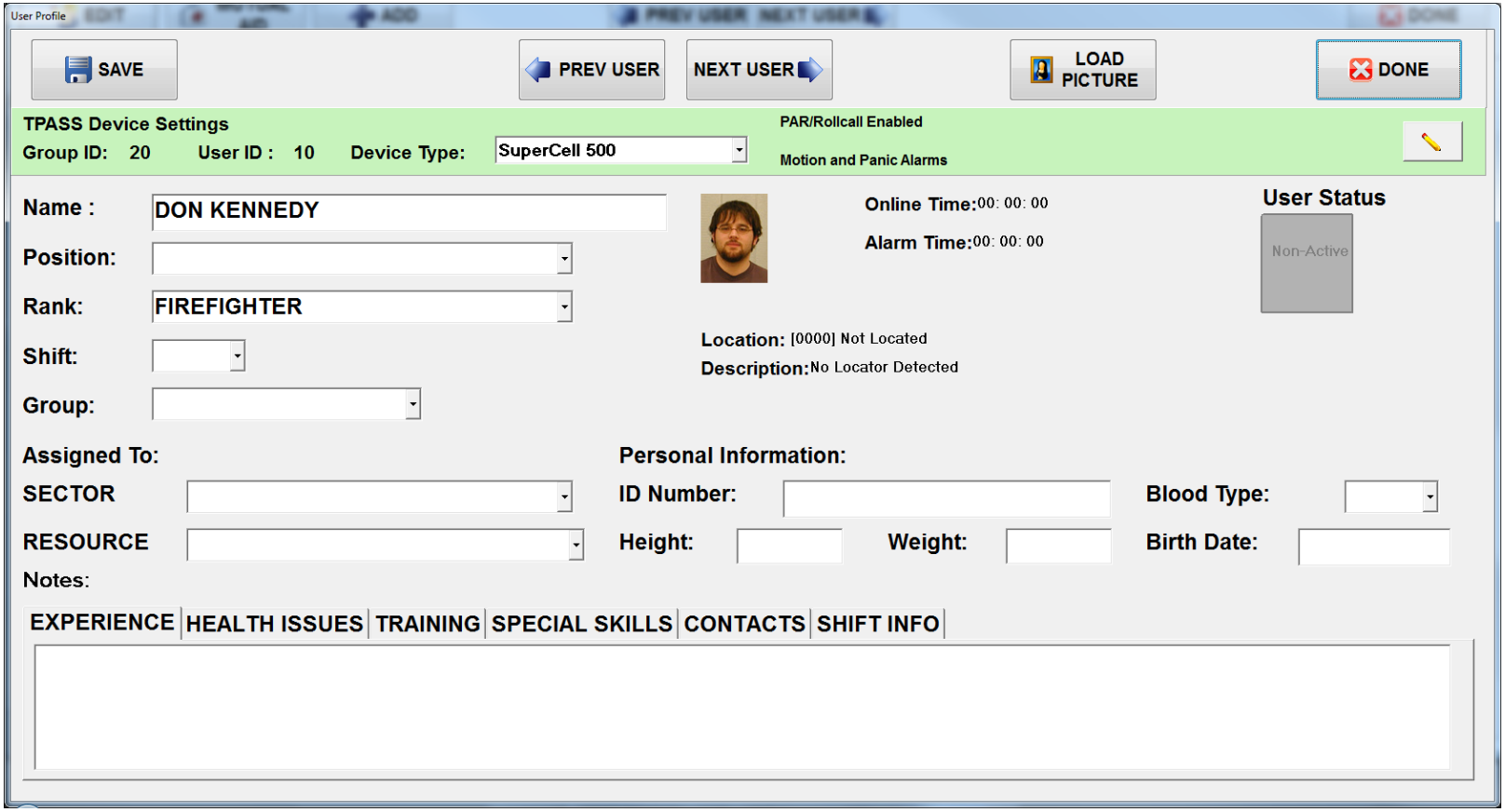


- Users Information may be edited during an incident if necessary by pressing the Edit Users Button on the Main Bar
- The Edit Users Dialog will appear as described in the configuration section
- User Profiles are accessible from the Edit Dialog as described in the configuration section
- Users may be added to the incident from here, but the delete user function is disabled during an incident
- User Status will be updated real-time on the User Profile screen while editing

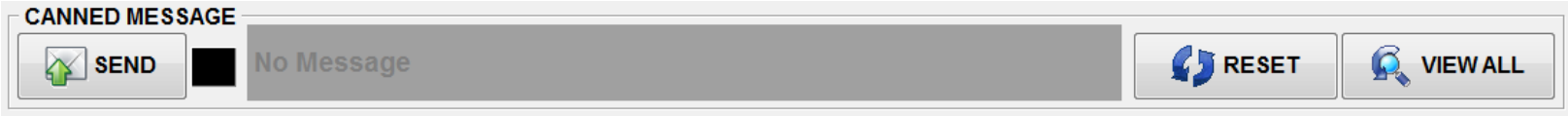
Edit Users Dialog



User Profile Dialog

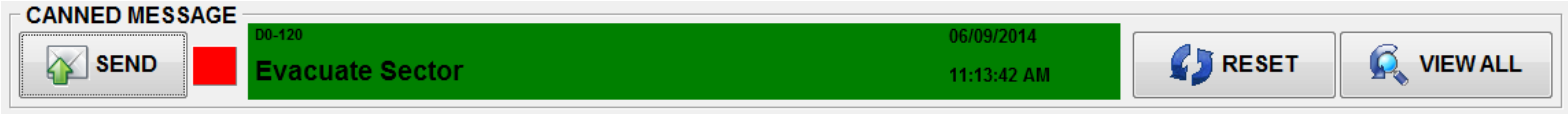


Sending and Receiving Canned Messages from SuperCELL Devices



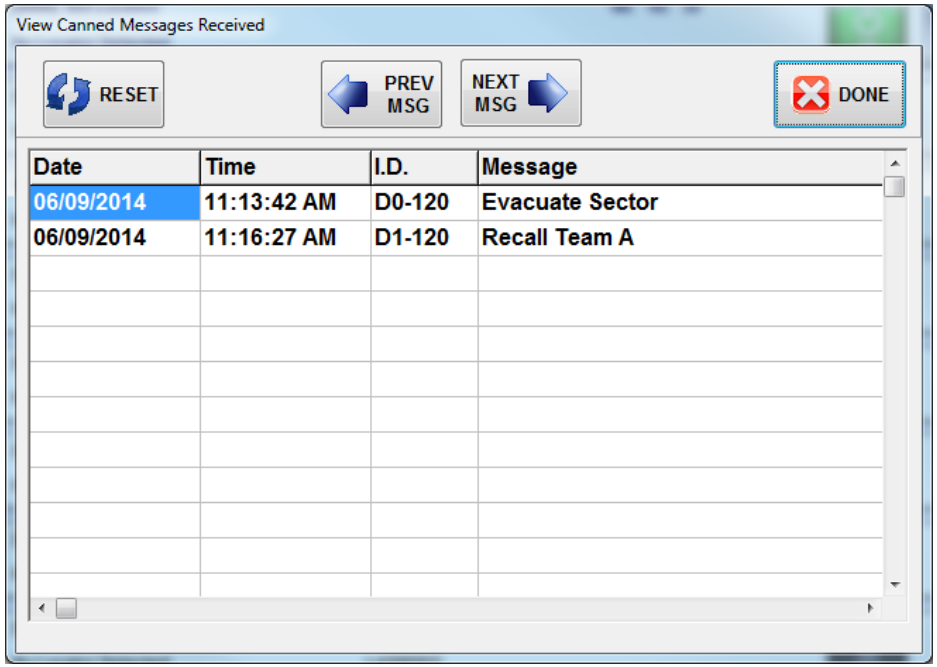
- The Canned Message area is located just beneath the Action Bar on the Monitor screen
- When no messages are active, the message area will be “grayed out” with the No Message status displayed

Receiving a Canned Message



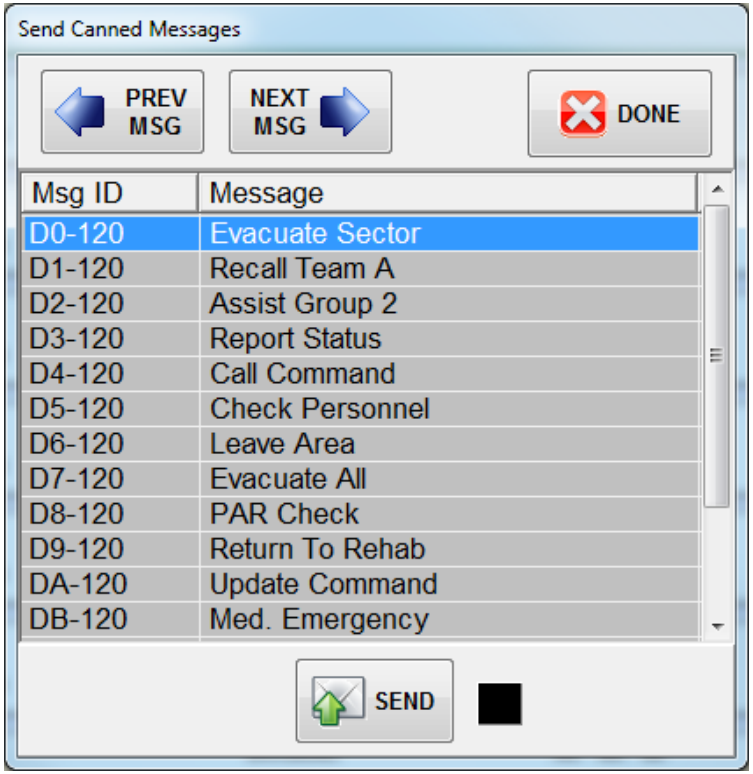
- When a Canned Message is received, the message area will "light up" with a green background and the Canned Message will be displayed along with a time and date stamp
- The red indicator square will flash on and off
- To reset this active message, press the Reset button
- The message box will return to the No Message status
- Only the most recent Canned Message received will be displayed in the message box

Viewing All Received Canned Messages



- To View All Canned Messages received, press the View All button and the dialog at the right will appear listing all canned messages received with time and date stamp
- These messages are also stored in the incident and radio data logs
- Press Done to exit

Sending a Canned Message

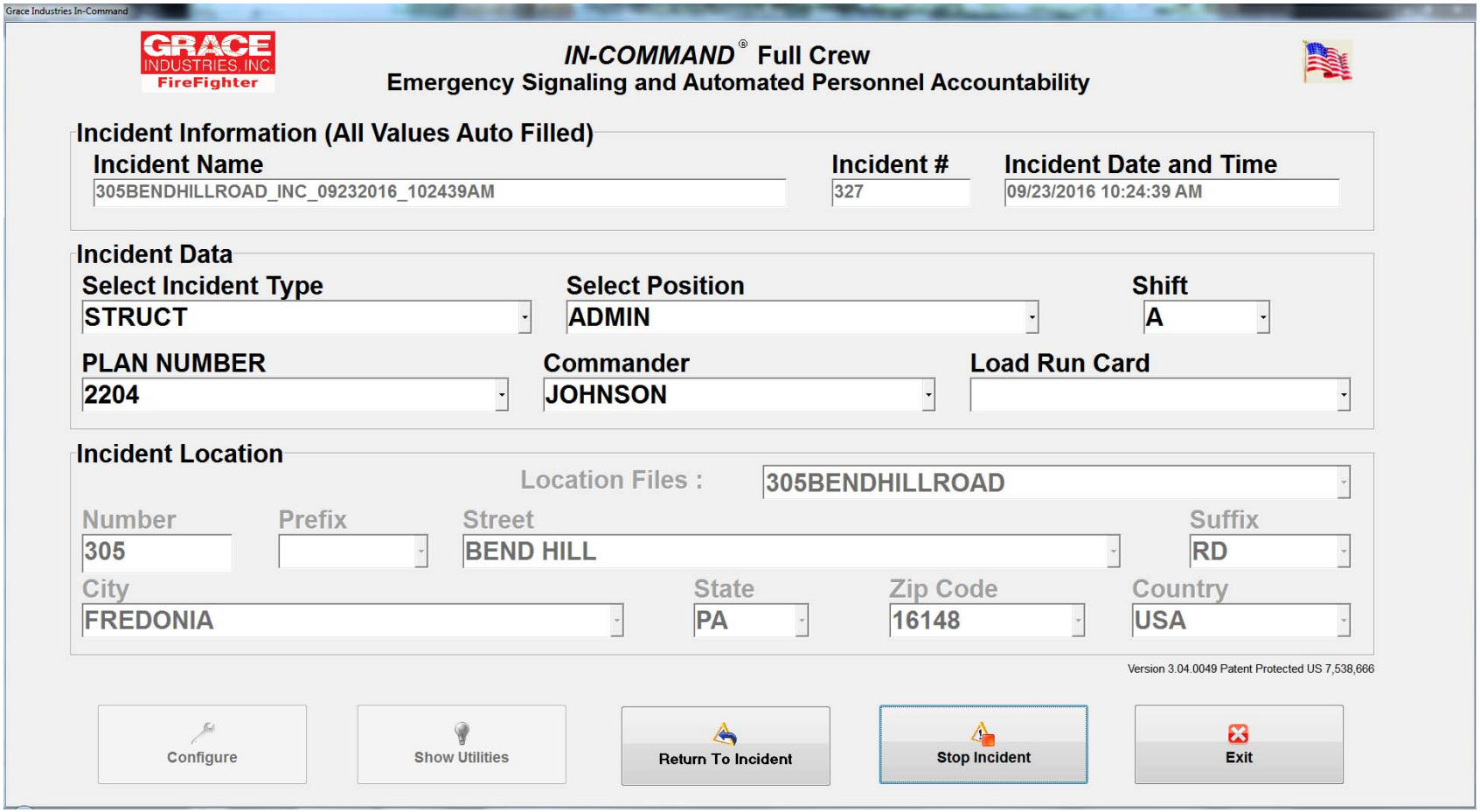


- To Send a Canned Message, press the Send Button from the canned message box
- The send Canned message dialog will appear
- Simply use the Prev and Next buttons or select the message from the list.
- Press the send button.
- The indicator box will flash red indicating the message has been sent
- There are 16 messages available
- SuperCELL Devices must have the same 16 Canned Messages programmed to properly display the message
- Messages sent will be added to the Incident Log

Returning to Operation Setup Screen

- When an incident has been complete, or even during an incident, you can return to the Operation Setup Screen to save or cancel an incident by pressing the Operation Setup Button located in the upper right hand corner on the Main Bar
- Notice the incident name, number, and time/date fields have been auto-populated
- The name filled will be auto-filled using the Location file name followed by Inc_date_time (e.g. 305BendHillRd_Inc_040207_092823am)
- If no location file is specified, the street address will be used with PreSreetSuffix followed by Inc_date_time (e.g.305BendHillRd_Inc_040207_ 092823am)
- Blank fields will be ignored
- If no street address data is present, the Incident file will simply be named Inc_Date_Time (e.g. Inc_040207_092823am)
- The incident number increments automatically for each incident
- The time/date stamp is filled when the start incident button is pressed for the first time

Auto-Filled Incident Fields



Returning to the Current Incident

- **To return to the current Incident from the Operation Setup Screen, simply press the Return To Incident Button**
- **The Incident will not be saved and you will return to the Monitor screen with all incident data preserved**

Saving the Incident

- To Save the Incident, simply press the Save and End the incident, simply press the Stop Button located at the bottom of the screen
- The Incident File will be saved to the file name indicated in the Incident name field
- The file is saved in the <Program Folder>\Incidents Folder on your hard drive
- The Incident may be later viewed by using the In-Command Incident Viewer program
- The Incident number will be automatically incremented for the next incident

Canceling an Incident

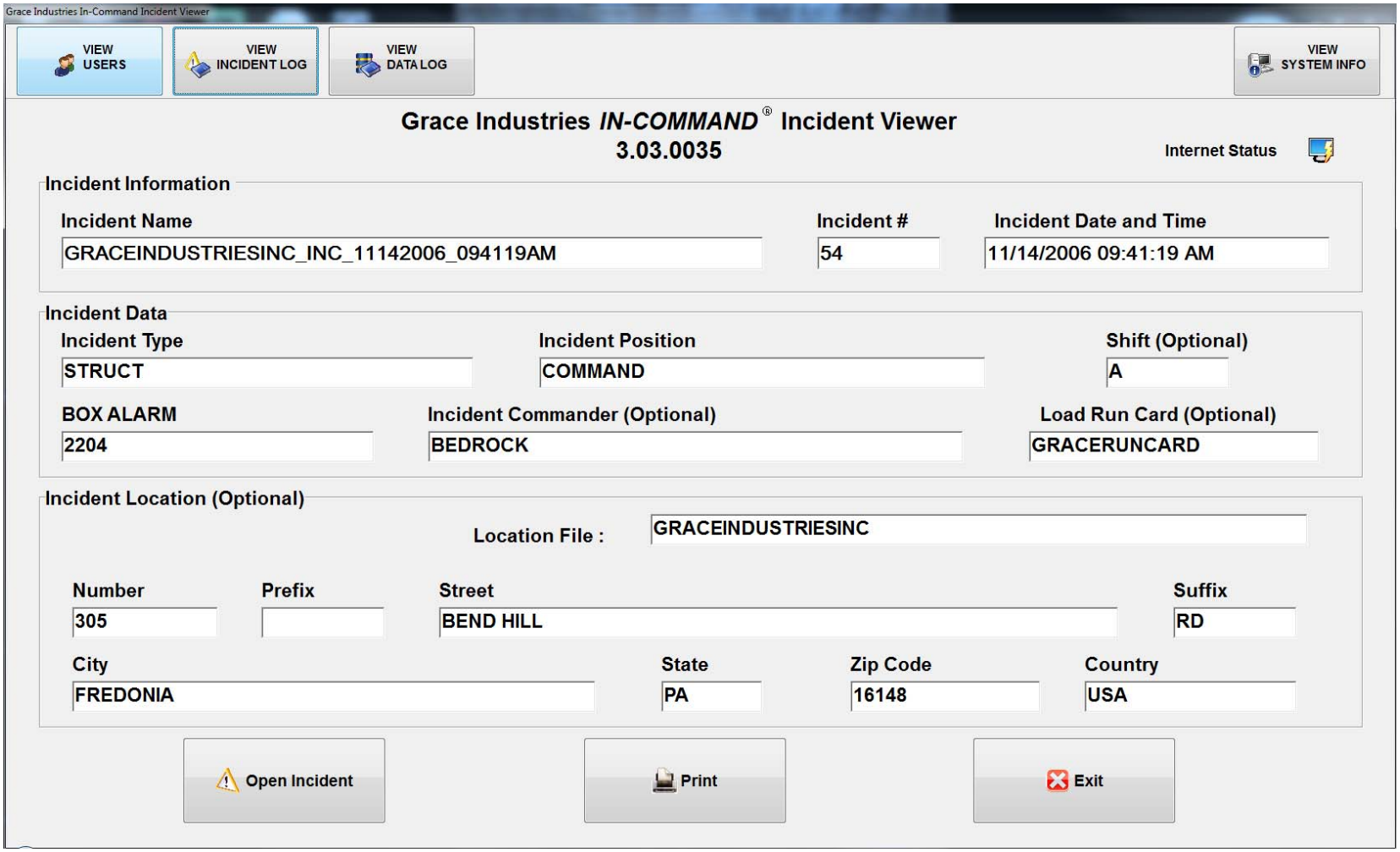
- To Cancel an Incident without saving, simply press the Cancel Button located at the Bottom of the Operation Setup screen
- A Confirmation dialog will appear
- Selecting No will return to the Operation Setup Screen
- Selecting yes will cancel the Incident
- All Incident data will be lost
- The Incident Number will not be auto-incremented for the next incident started

Using the Incident Viewer



- **To View Saved Incident Data the Incident Viewer is installed along with the In-Command or Grace-Watch Software**
- **Select the Incident Viewer Icon and double-click to start the program**

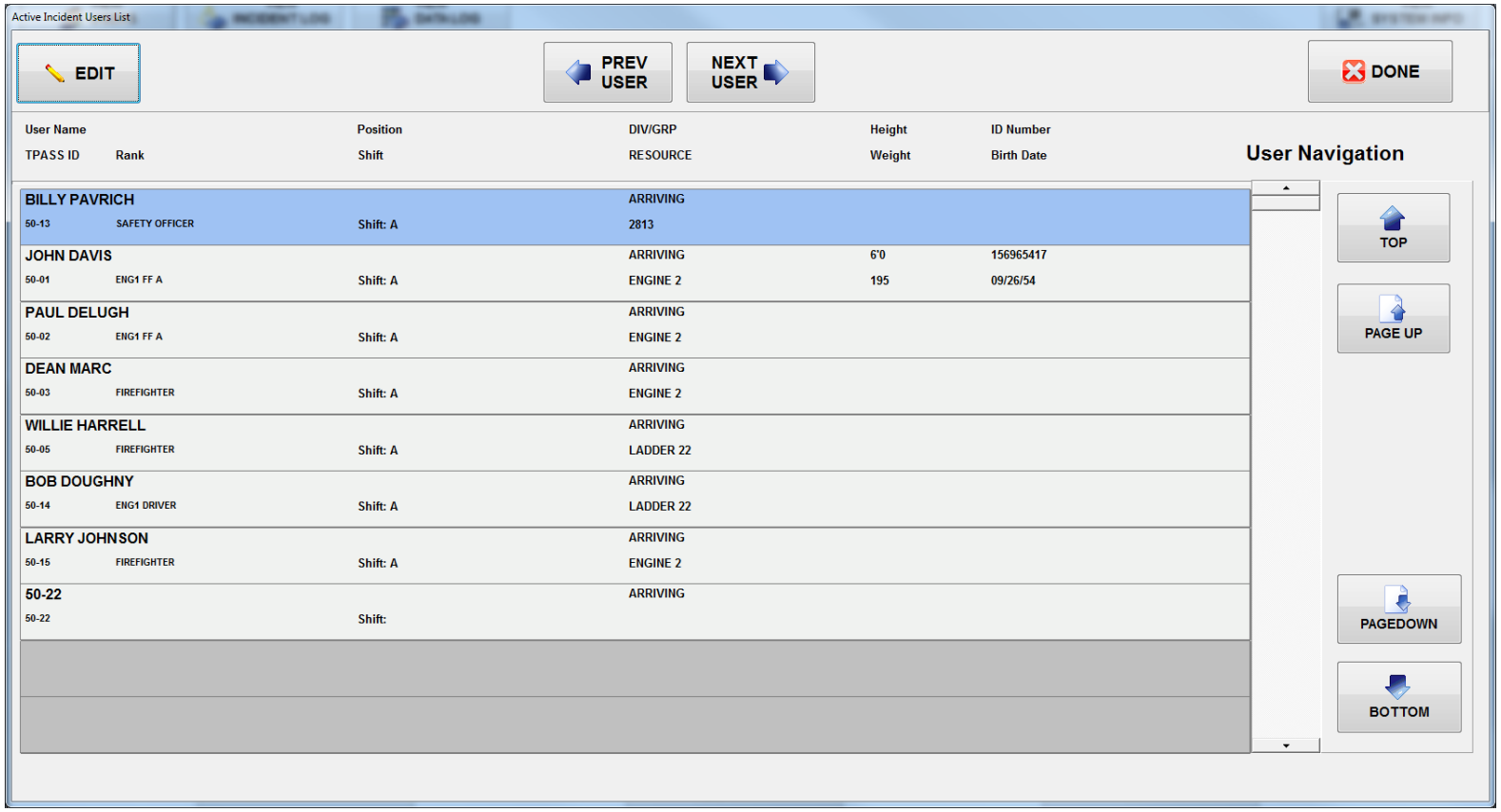
Incident Viewer Screen



Incident Viewer Description

- The Last Incident Viewed will be re-opened upon start up of the program. (On initial startup, a default incident provided with installation will be opened)
- Select Open an Incident to view the saved incident files on the Hard Drive
- Select the Print Option to print the Incident Data
- The Main Form show the Incident Data entered from the Operation Setup Screen of In-Command for that incident, including Incident name, number, time/date, Incident Data Settings and Location Settings. Incident data saved includes:
  - Incident Details of the Incident
  - Active Users that checked in at the incident, along with profiles
  - Complete Incident Log of the Incident
  - Complete Radio Data Log of the Incident
  - System Info at the time the Incident was saved

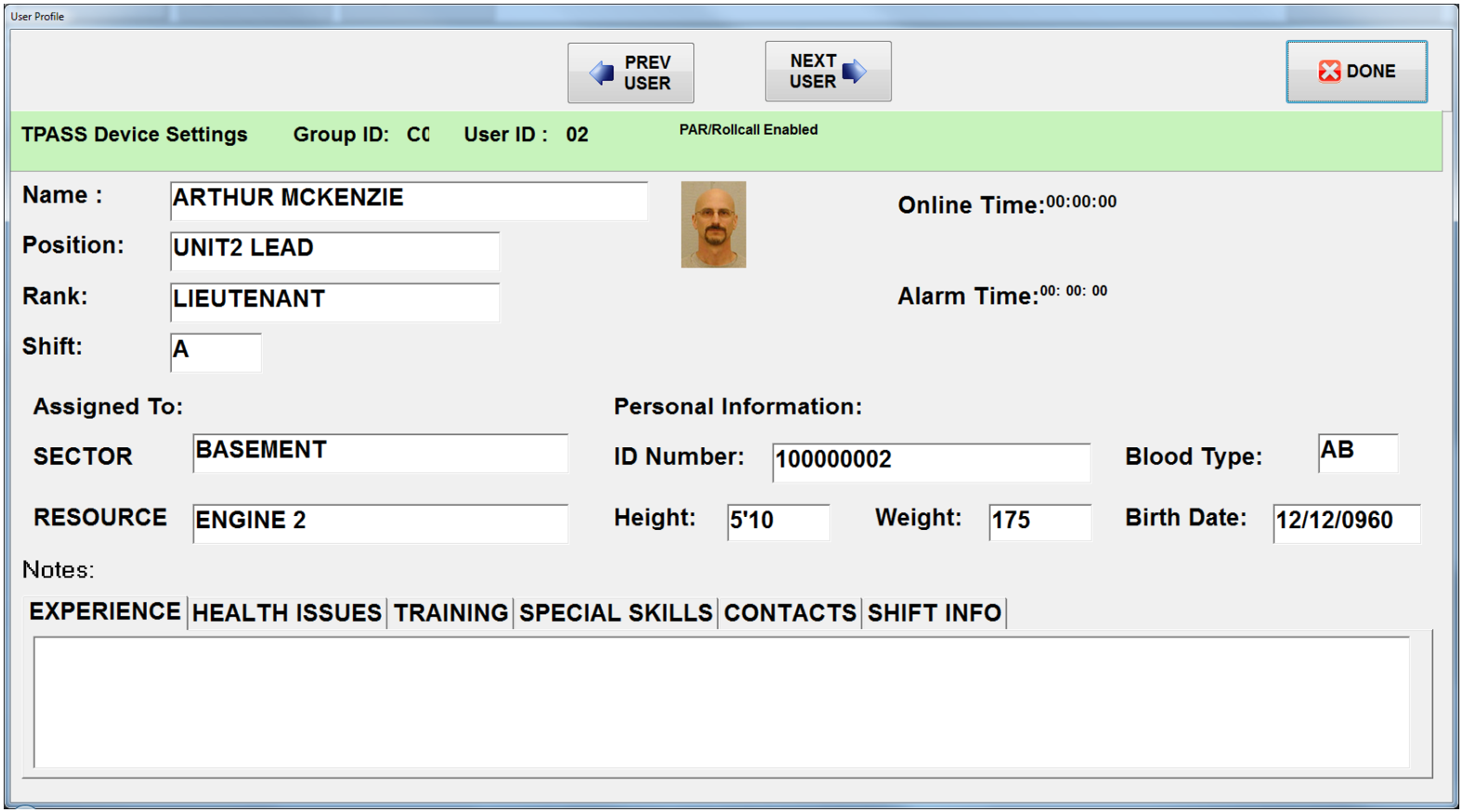
Users Present at the Incident



Viewing Users Present at the Incident

- Press the View Users button from the Main Bar to view the users that were present at the scene of the Incident
- Only users with devices that checked into the In-Command System during the incident will be saved in the incident file
- Users are sorted by Group and I.D. Number
- The User Profile may be viewed for any user on the list by double-clicking on that user
- User Information can be printed from the Print Button on the Main Form

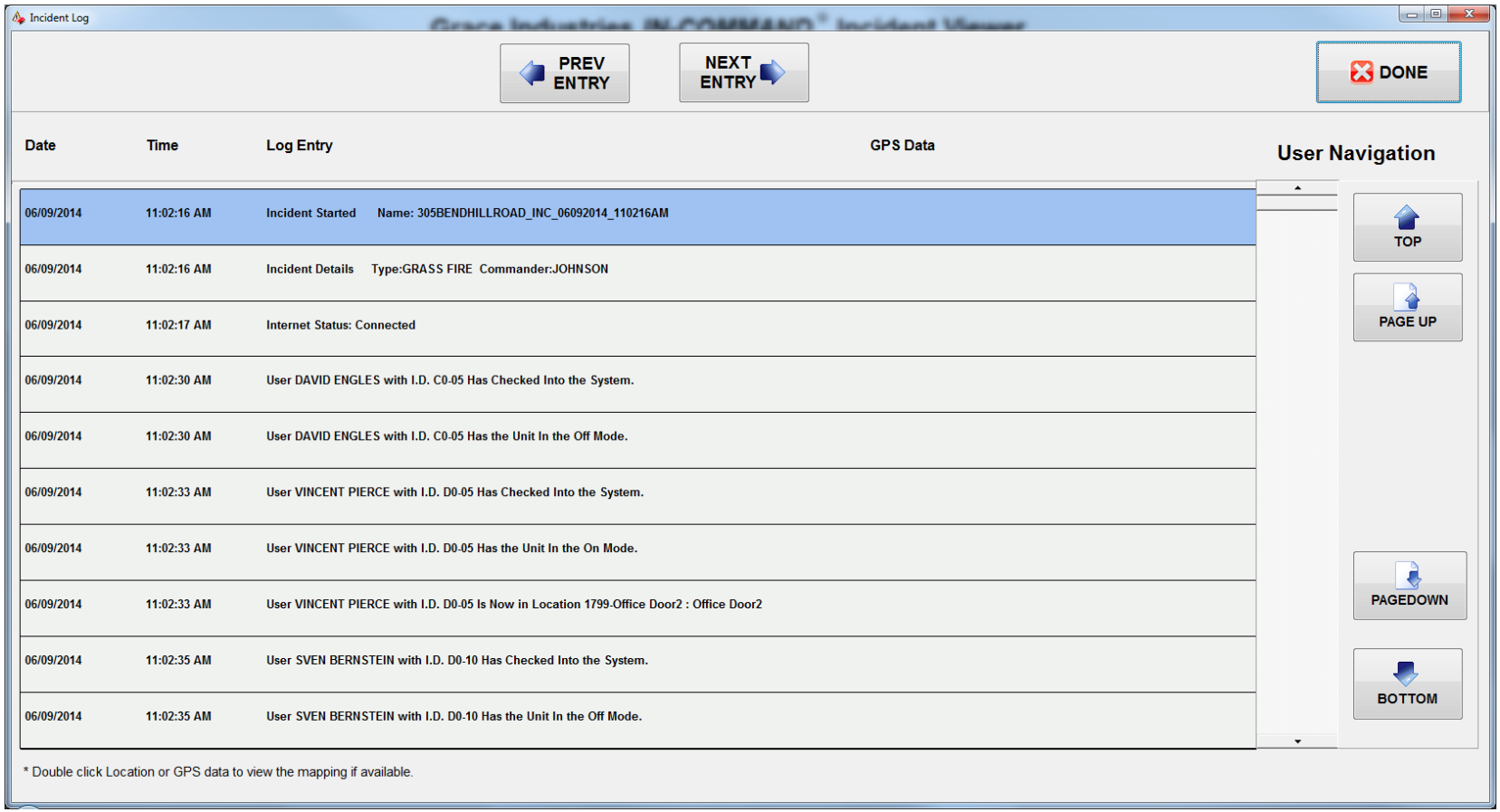
Viewing User Profiles



Viewing The Logs and System Information of an Incident

- **The Complete Incident Log and Radio Data log for an incident can be viewed by pressing the View Incident Log Button and View Radio Data log Button from the Main Bar**
- **All Logs begin with an Incident Started Entry**
- **These Logs can be printed using the Print Button on the Main Form**
- **System Info at the time the Incident was saved can also be viewed, showing total Incident time, total users monitored, etc.**

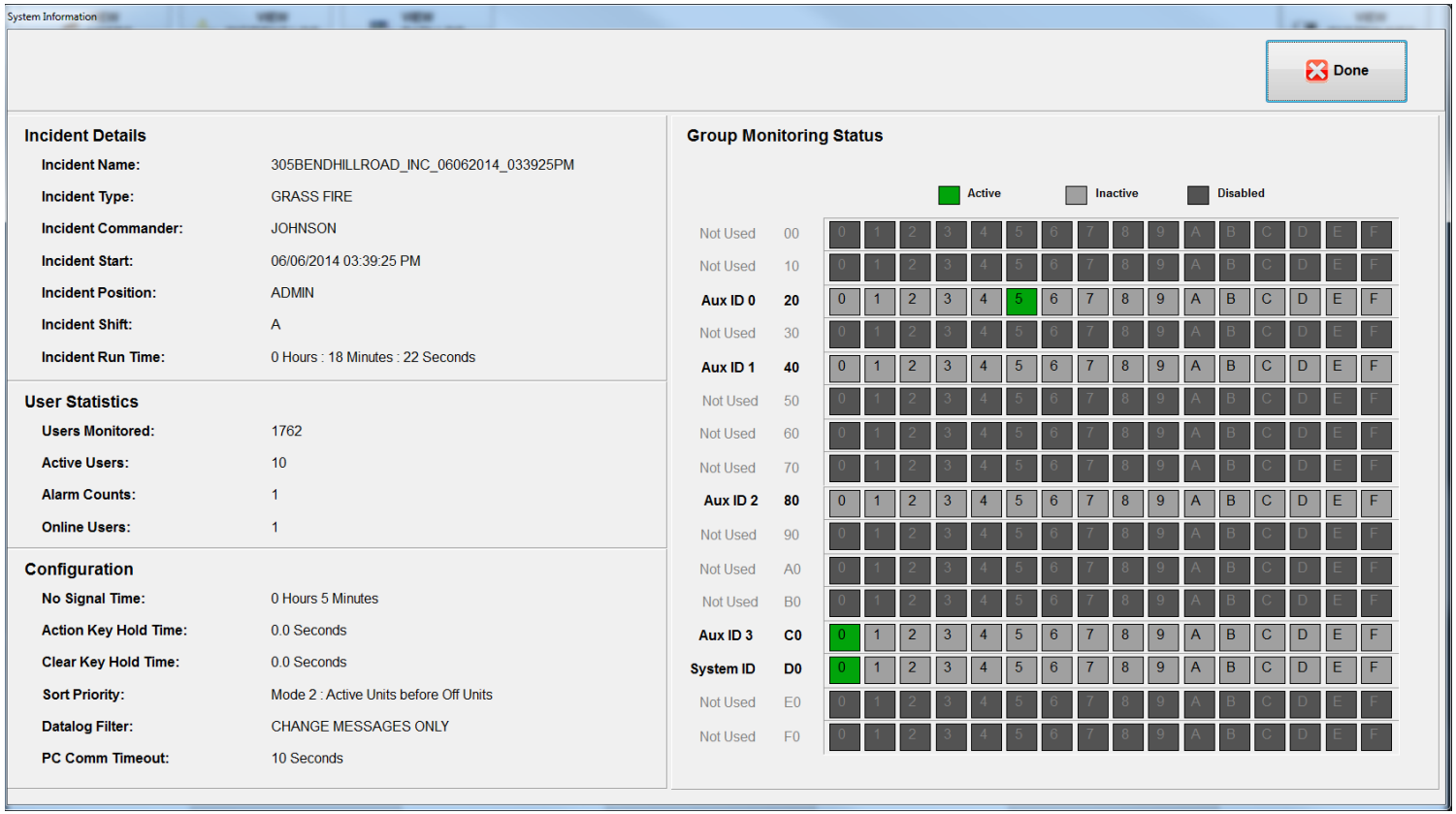
Viewing the Incident Log



Viewing the Radio Data Log



Viewing the System Information



Grace-Watch with Location Utilizing Locator Beacon LT100-H

(Works with Grace Radio-H personal safety products and Grace-Watch Monitoring Systems)



The LT100-H Locator Beacon is a compact signaling device that transmits a location code to SuperCELL SC500 when the user is in range of the Beacon. Once updated with a location code from the Locator Beacon, all SuperCELL transmissions will contain the last Location Code received, thus providing location to a Grace-Watch monitoring system.

The LT100-H-L is powered by a D-size Lithium battery. The LT100-H-EP is powered by 12 VDC with a Lithium battery backup. Both models are suitable for mounting on ceilings, doorways and walls throughout a facility, including outdoor areas.

The Grace-Watch System supports over 4,000 unique locations and is scalable to any size facility. Location resolution (the number of Coverage Zones in a given area) is adjustable and is determined by the proximity and placement of Beacons.

When the Coverage Zone of a Locator Beacon is entered by a SuperCELL user, the SuperCELL receives the Location Code and transmits a radio signal to a Grace-Watch (monitoring station) with its current status and the new Location Code. The Locator Beacon has an adjustable Coverage Zone to accommodate various environmental factors and zone area sizes. Internal jumpers allow the Coverage Zone to be set to 6 different sizes: 1-Smallest to 6-Largest, as needed.

Summary









- **The In-Command® and Grace-Watch® systems utilize a reliable two-way communication and monitoring solution to provide complete accountability for your firefighters and other personnel.**
- **The system provides the necessary incident management features and documentation for tracking personnel on the scene.**
- **The system is easy to setup and operate, allowing personnel to achieve their primary goal: WORKING THE SCENE AND STAYING ALIVE!**