
Grace-Watch®

Advanced Safety Monitoring System

User's Information



Patent Protected
US 7,538,666

Grace Industries, Inc.

Grace-Watch® 3.05.0100

Protecting Personnel



With advanced hardware and software features, Grace-Watch® systems provide an unbeatable method of protecting your personnel at any facility while simplifying the Accountability responsibilities of monitoring personnel.

Getting Started

Table of Contents

<u>Introduction</u>	<u>4</u>	<u>Location Setup</u>	<u>49</u>
<u>Minimum Computer Requirements</u>	<u>7</u>	<u>GPS Device Mapping</u>	<u>60</u>
<u>Installing USB Drivers from FTDI</u>	<u>8</u>	<u>Setting Audio Alarms</u>	<u>84</u>
<u>Connecting the MX900-H</u>	<u>9</u>	<u>Configuring Notifications</u>	<u>87</u>
<u>Installing System Software</u>	<u>10</u>	<u>Save and Exit Configuration</u>	<u>96</u>
<u>Operation Setup</u>	<u>12</u>	<u>Start an Incident</u>	<u>98</u>
<u>Setting the System ID</u>	<u>20</u>	<u>Monitoring Screen</u>	<u>99</u>
<u>System Settings</u>	<u>22</u>	<u>User Status Images</u>	<u>113</u>
<u>Configure Connections –</u>		<u>Performing Actions on Users</u>	<u>130</u>
<u> Set the Receiver Type</u>	<u>25</u>	<u>Viewing System Information</u>	<u>154</u>
<u>User Setup</u>	<u>26</u>	<u>Saving the Incident</u>	<u>171</u>
<u>Create a Name File</u>	<u>27</u>	<u>Cancelling the Incident</u>	<u>171</u>
<u>Prepared to Monitor Users</u>	<u>41</u>	<u>Using the Incident Viewer</u>	<u>172</u>
<u>Configuring Incident Settings</u>	<u>42</u>		

Introduction



Grace Worker Worn
Man-Down Devices



Thank you for purchasing a Grace Industries Accountability System

Grace-Watch® Advanced Safety Monitoring System uses Grace-Watch® Software and the components listed below to provide complete accountability for your personnel.

System Components

- MX900-H Transceiver
- Worker worn man-down devices assigned to personnel for monitoring
- Repeaters, Remote Enhanced Transceivers, External Antennas, and Locators may be added as needed to enhance system effectiveness

Safety Monitoring of Personnel



- Each individual equipped with a worker worn man-down device is monitored for **PASS Status** such as **ON**, **OFF**, or **ALARM**. *PASS stands for Personal Alert Safety System
- Each worker worn device can be sent an **Call-Back**, **Report-In**, or **Roll Call Signal** with a simple button press
- All personnel within range at the facility are automatically populated in the **Grace-Watch** software and are sorted in real-time based on priority, with **Fall-Alarm** being the highest priority
- When an **Alarm**, **Call-Back**, **Report-In**, or **Roll Call** signal is present, the worker worn device will go into a loud audio alarm indicating to the wearer that action is required

MX900-H Transceiver



- Receives and processes radio signals from Grace worker worn devices and transmits Call-Back, Report-In, and Roll Call signals to those 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

Minimum Computer Requirements for Grace-Watch Systems

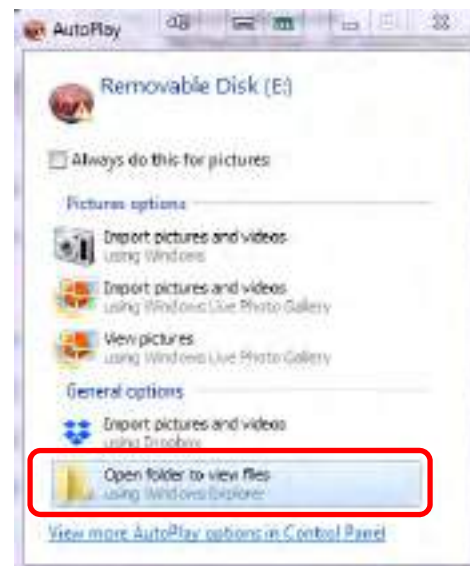
- **Processor:**
 - 1 GHz 32-bit (x86) (2Ghz or faster processor recommended)
 - **Operating Systems:**
 - Windows 7, 8, 10 (32-bit and 64-bit)
 - Administrative rights required
 - **RAM:**
 - 4GB
 - **Monitor:**
 - 1024x768 (Touchscreen Recommended)
 - Note: Use of two screens is recommended when mapping 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 can be recognized on the PC. FTDI is the world leader in USB development and supplies robust USB communication and functionality in our product.

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 **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

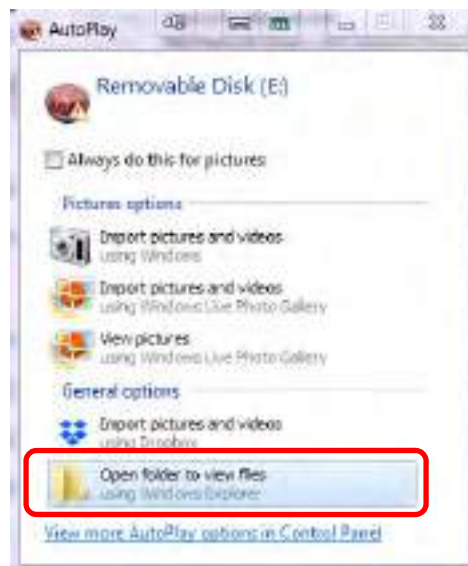


Installing Software for Grace-Watch

The install will not complete unless you have administrative rights.

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 **GCLaunch.exe**
- When you have the option, left-click the **Install** button for 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 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

GRACE
INDUSTRIES INC.
LONG WORKER SAFETY

GRACE-WATCH®
Emergency Signaling and Automated Personnel Accountability

Incident Information (All Values Auto Filled)

Incident Name Incident # Incident Date and Time

Incident Data

Select Incident Type Select Position Shift

NORMAL OPERATION ENGINEERING

Box Alarm Commander Load Run Card

Incident Location

Location Files : DEFAULT

Number Prefix Street Suffix

City State Zip Code Country

Configure Show Utilities Start Incident Stop Incident Exit

- 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 Show Utilities 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 Grace-Watch 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\Grace-Watch\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 Grace-Watch 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 Grace-Watch.

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 Grace-Watch 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.

SELECT POSITION

This field contains the Position such as Line Supervisor, 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 Position is also permitted.

SHIFT

This field contains the 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 Shift 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.

COMMANDER

This field contains the incident Commander's name such as Smith, 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 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.

(continued...)

Operation Setup Definitions

Continued...

LOCATION STATE

This field contains the incident address State such as PA, CO, 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 Grace-Watch software for setting up the preferences for comboboxes, System ID 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 Grace-Watch 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 Grace-Watch 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 Grace-Watch system.

EXIT BUTTON

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

Utilities Bar

The screenshot displays the 'Utilities Bar' interface for Grace-Watch. At the top, there are three buttons: 'Help Manual', 'Program TPass', and 'File Maintenance'. Below these, the 'Incident Information (All Values Auto Filled)' section contains fields for 'Incident Name' (305BENDHILLROAD_INC_06062014_011822PM), 'Incident #' (657), and 'Incident Date and Time' (06/06/2014 01:18:22 PM). The 'Incident Data' section includes 'Select Incident Type' (GRASS FIRE), 'Select Position' (ADMIN), 'Shift' (A), 'PLAN NUMBER' (2204), 'Commander' (JOHNSON), and 'Load Run Card'. The 'Incident Location' section features a 'Location Files' field (305BENDHILLROAD) and a detailed address form with fields for Number (305), Prefix, Street (BEND HILL), Suffix (RD), City (FREDONIA), State (PA), Zip Code (16148), and Country (USA). At the bottom, there are five buttons: 'Configure', 'Hide Utilities', 'Start Incident', 'Stop Incident', and 'Exit'.

- **Help Manual:** Launches Grace-Watch Help Manual
- **Program TPass:** Program Worker Worn Device ID Numbers
- **File Maintenance:** Backup/Restore Grace-Watch Settings, Import/Export Names, Messages, Etc.

Program Worker Worn Device ID Numbers

The screenshot shows a software window titled "Program TPASS and Supercell ID's". It contains several sections for configuring a device. At the top right is a "Done" button with a red X icon. The "TPASS Current ID" section has three dropdown menus for "Family", "Group", and "User ID", followed by "Discover" and "Cell" buttons. The "TPASS ID Programming Options" section includes checkboxes for "Radio H" and "Maintain ID in Name List", and a "Connection" dropdown menu. The "TPASS ID Program" section has three dropdown menus for "Family", "Group", and "User ID", and a "Program" button. At the bottom is a "Status" label and a text input field.

- Use the discover button while putting the device into alarm to learn the current settings of the device you want to change.
- Once discovered, enter the new device ID in the TPASS ID Program section
- Press Program and wait for power-up chirp to verify ID programming was successful.

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 worker worn devices being used.

- **SYSTEM SETUP**

The System Setup section allows the configuration of all the operation specific options on the system including System ID, Aux ID, 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

Configuration

GRACE
INDUSTRIES, INC.
LOVE WORKER SAFETY

GraceIndustries **GRACE-WATCH®** Configuration Module
Copyright©2005-2020 Grace Industries, Inc.



***Incident Setup** | User Setup | System Setup | General Setup


Incident Settings

Incident Data Settings

Types	Box Alarm
Positions	Commanders
Shifts	Run Cards

Incident Location Settings

Locations	Cities
Prefixes	States
Streets	Zip Codes
Suffixes	Countries

 Exit Configuration

Setting The System ID

- The first operation that should be performed is setting the proper System ID for the Grace-Watch System
 - **NOTE: System ID must match System ID of the worker worn devices for the units to be displayed and monitored**
- Click the System Setup tab near the top of the screen to access the System Settings Dialog

System ID Explanation

System ID = 51 most significant digit->5 1<-least significant digit


- The System ID of the Grace-Watch Software sets the receive parameters for the MX900-H unit allowing reception of worker worn device messages from users within a block of 16 groups, 1-99 users per group plus 9 Micro Repeaters per group. A System ID 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 worker worn device with a group ID 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.
- Each group has 1-99 users (worker worn devices) and 9 Micro-Repeaters available.
 - Example worker worn device 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
- The least significant number in the System ID indicates the system group, or the sub group within the system block with the highest priority. All IDs within the system group will be displayed before the other users in the remaining groups that have an equal priority.

System Settings Dialog

Configuration

GRACE INDUSTRIES, INC.
LOVE WORKERS SAFETY

GraceIndustries **GRACE-WATCH®** Configuration Module
Copyright©2005-2020 Grace Industries, Inc.



Incident Setup | **User Setup** | ***System Setup** | **General Setup**

System Settings

*System ID | Aux ID's

Groups To Monitor

System I.D. [01-FE Hex] ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F

☒ No-Signal Condition Causes an Alarm

☐ Extended No Signal Time ☐ Enable Alarm Cleared Flag

No Signal Time Minutes PC Communication Timeout Seconds

Action Key Hold Time Seconds Sort Priority Mode

Clear Key Hold Time Seconds Radio Datalog Filter

System Settings

- **On the System ID Tab, Set the System ID**
- **Leave Groups To Monitor Checkbox Checked.**
- **On the Aux IDs Tab, leave Enable Aux IDs unchecked.**
- **Leave No-Signal Setting to 15 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**
- **Use the Configure Connections button to manually configure com ports. See Configure Connections on page 25.**

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 ID for the Grace-Watch system.

SYSTEM ID TAB \ GROUPS TO MONITOR

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

AUX IDs TAB \ ENABLE AUX IDs CHECK BOX

This check box enables or disables the configuration of Aux IDs for the Grace-Watch Software.

AUX IDs TAB \ AVAILABLE

This field list the pool of available IDs that can be used as Aux IDs.

AUX IDs TAB \ ASSIGNED

This field lists the assigned Aux IDs. Use the arrow buttons to managed IDs between these two fields.

AUX GROUPS TO MONITOR

These check boxes enable the receiving of worker worn device 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 worker worn device radio signal must be received within, in order 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 device command from the monitor screen.

CLEAR KEY HOLD TIME

This field allows setting of the clear key hold time required to perform a device 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 worker worn device messages or only change of status messages in the radio data log.

Configure Connections

	Receiver Type	Baud Rate	Com Port
1	MXH	38400	06
2			
3			
4			
5			

 Clear Selected  Save  Cancel

- **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.
- **COM Port**
 - ❑ Dropdown used to select from available port numbers.
- **Clear Button**
 - ❑ Used to clear the selected row.

User Setup Screen

Configuration

GRACE INDUSTRIES, INC.
LONE WORKER SAFETY

GraceIndustries GRACE-WATCH® Configuration Module
Copyright © 2005-2020 Grace Industries, Inc.

Incident Setup | *User Setup | System Setup | General Setup

User Settings

Ranks Division SubDivision User Positions User Groups Note Titles

Active Name File: DEFAULT.NAM

+ Create a Name File

Edit Active Name File

Choose Active Name File

Delete a Name File

Exit Configuration

- 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 IDs In Each Group
- Set Range of Micro Repeaters In Each Group
- Leave all 3 Special Instructions Check Boxes on Bottom Left Unchecked
- Select Default Names, e.g. 01-01
- Press Create Name File Button
- Press Done When Finished

Name File

Combin 3 Name File

Name File Generator

*System ID | Aux ID's

Groups To Include

System I.D. [01-FE Hex] ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F

User Setup

Total User ID Range Per Group : 1 - 99

User Program Range Thru

☒ Include Micro Repeater Id's

Micro Repeater Total Range: R1 - R9

Micro Repeater Program Range Thru

Name Format

Special Instructions

☐ Include Disable Name Entries for Groups Not Selected

☐ Include Disable Name Entries for Users Not Selected

☐ Only Send 1-digit Group Id

Select Name String Style

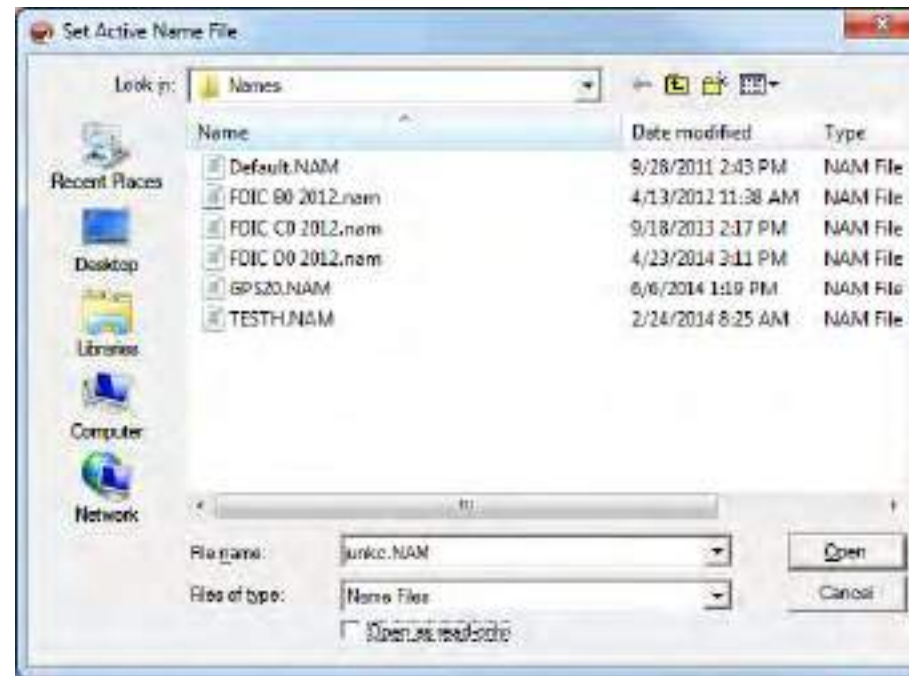
☒ Default Names

☐ Blank Names

☐ Custom Name String

Current Custom Name Format

Setting the Active Name File



- The Name File just created must now be set to the Active Name File so that it 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 Rank
- The Title Will Be Added to the Dialog Box on the Right
- Highlight a Title and Press Remove button 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

Configure User Divisions

Start Incident Division Default: NOT PRESENT
☐ Load Default Division When Starting An Incident

User Active Division Default: INACTIVE
☐ Load Default Division When User Becomes Active

Create New User Division

Existing User Divisions

ARRIVING
BASE
BASEMENT
DIVISION1
DIVISION2
DIVISION3
GROUP HAZMAT
GROUP USAR
INTERIOR
LOBBY
OCCP SRVCS
REHAB
ROOF
SAFETY
STAGING
TREATMENT
TRIAGE

Enter a Label Value for the User Division (i.e. Sector, Group, Unit, etc.)
Label for User Divisions: SECTOR

DONE

- 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

Configure User Sub-Divisions

Start Incident Sub-Division Default:

☐ Load Default Sub-Division When Starting An Incident

User Active Sub-Division Default:

☐ Load Default Sub-Division When User Becomes Active

Create New User Sub-Division

+ Add User Sub-Division

Make Incident Default

Make User Default

Remove Sub-Division

Existing User Sub-Divisions

- AMB19
- AMB289
- ENGINE 1
- ENGINE 2
- LADDER22
- UNASSIGNED
- UNIT1
- UNIT2

Enter a Label Value for the User Sub-Division (i.e. Resource, Group, etc.)

Label for User Sub-Divisions:

DONE


- 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

Configure User Note Titles

Enter The Titles for the Note Tabs (i.e. Health, Training, etc.)

Title for Note 01 Tab	EXPERIENCE
Title for Note 02 Tab	HEALTH ISSUES
Title for Note 03 Tab	TRAINING
Title for Note 04 Tab	SPECIAL SKILLS
Title for Note 05 Tab	CONTACTS
Title for Note 06 Tab	SHIFT INFO

 DONE

- 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

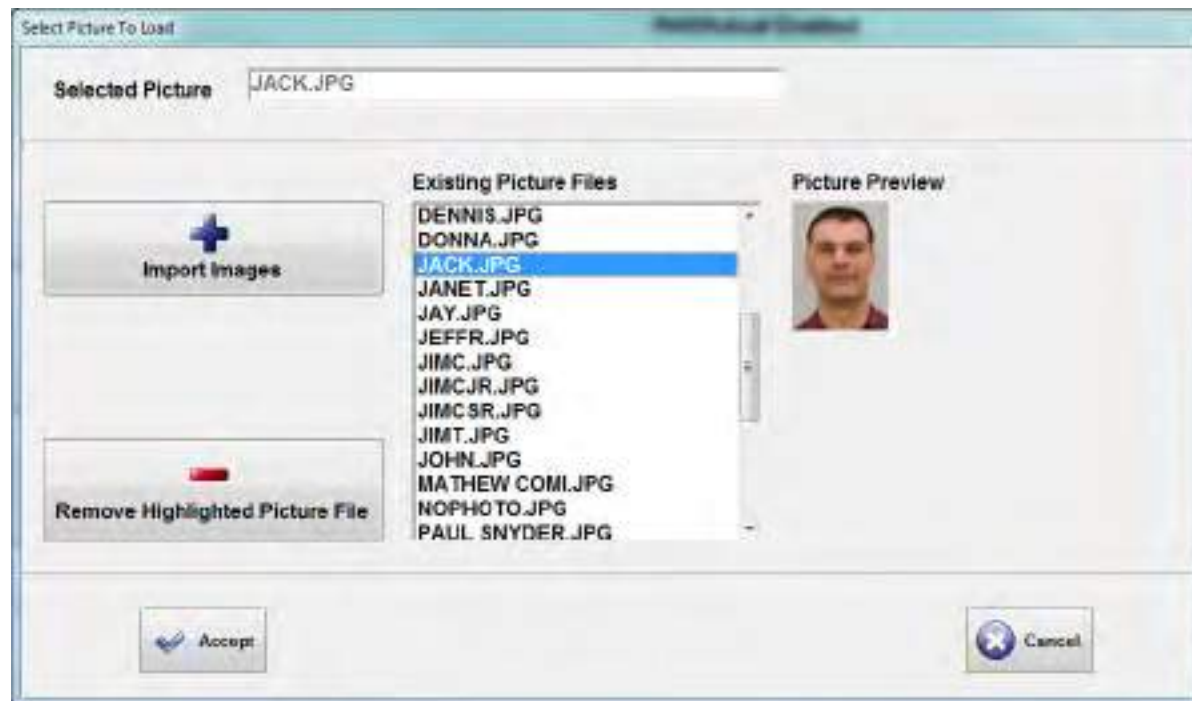
- **Press the Edit Name File Button from the User Setup Screen to Access the Edit Names Dialog**
- **Double-Click a user name or Highlight the User and Press the Edit Button to view the User Profile Dialog**
- **Enter Information and Press Save to Save the Changes**
- **Continue with each User until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

Editing the User Profile

The screenshot shows the 'Edit Profile' window for a user named JOHN KLINGER. The window includes a top navigation bar with buttons for 'SAVE', 'PREV USER', 'NEXT USER', 'LOAD PICTURE', and 'DONE'. Below this is a green header bar with 'TPASS Device Settings' and 'Motion and Panic Alarms'. The settings section includes 'Group ID: 20', 'User ID: 01', and 'Device Type: SuperCell 500'. The main profile section contains fields for 'Name: JOHN KLINGER', 'Position:', 'Rank: FIREFIGHTER', 'Shift:', 'Group:', 'Assigned To: SECTOR', 'RESOURCE', 'Personal Information: ID Number:', 'Height:', 'Weight:', 'Blood Type:', and 'Birth Date:'. There are also 'Online Time: 00:00:00' and 'Alarm Time: 00:00:00' fields. A 'User Status' section shows a 'NO PICTURE' icon. A 'Location: (0000) Not Located' and 'Description: No Locator Detected' are also present. At the bottom, there are tabs for 'EXPERIENCE', 'HEALTH ISSUES', 'TRAINING', 'SPECIAL SKILLS', 'CONTACTS', and 'SHIFT INFO'. A large text area for notes is at the very bottom.

- 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

The screenshot shows a software interface for editing user profiles. At the top, there are buttons for 'SAVE', 'PREV USER', 'NEXT USER', 'LOAD PICTURE', and 'DONE'. Below these is a green header bar with 'TRASS Device Settings' and 'Physical Enabled'. The main form contains the following fields and sections:

- Group ID:** 20
- User ID:** 01
- Device Type:** SuperCell 500
- Name:** JOHN KLINGER
- Position:** (empty dropdown)
- Rank:** FIREFIGHTER
- Shift:** (empty dropdown)
- Group:** (empty dropdown)
- Assigned To:** SECTOR (empty dropdown)
- RESOURCE:** (empty dropdown)
- Personal Information:**
 - ID Number:** (empty text field)
 - Height:** (empty text field)
 - Weight:** (empty text field)
 - Blood Type:** (empty dropdown)
 - Birth Date:** (empty text field)
- Notes:** A section with tabs for EXPERIENCE, HEALTH ISSUES, TRAINING, SPECIAL SKILLS, CONTACTS, and SHIFT INFO. The EXPERIENCE tab is currently selected, showing a large empty text area for notes.
- User Status:** A section with a 'User Status' label and a 'User Status' dropdown menu.
- Online Time:** 00:00:00
- Alarm Time:** 00:00:00
- Location:** (0000) Not Located
- Description:** No Location Detected

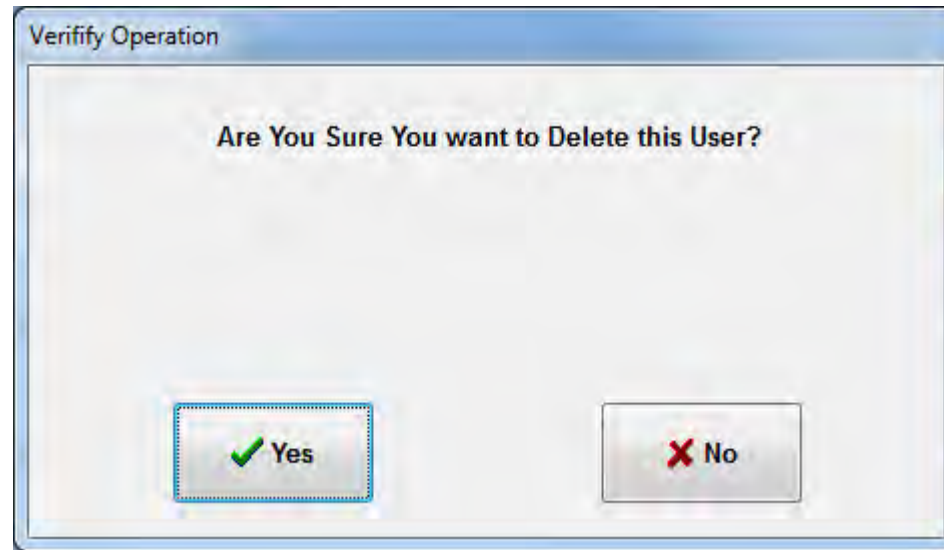
- Click on Each Note Tab to Reveal the Memo Area for Each User Note Memo
- Enter information into each note memo
- Press Save when Complete

Adding a User to a Name File

<u>User Parameter</u>	<u>Setting</u>	<u>Instructions</u>
Group	D0	Select a Group ID within System or Aux Block
User I.D.	01	Select A User ID From 1-99 for Standard Pass dev Select R1-R9 for Micro Repeaters
Name	<input type="text"/> <input checked="" type="button" value="Default"/>	

- Users May Be Added to the Name File from the Edit Name File List screen by pressing Add User
- Enter the Group and User ID 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

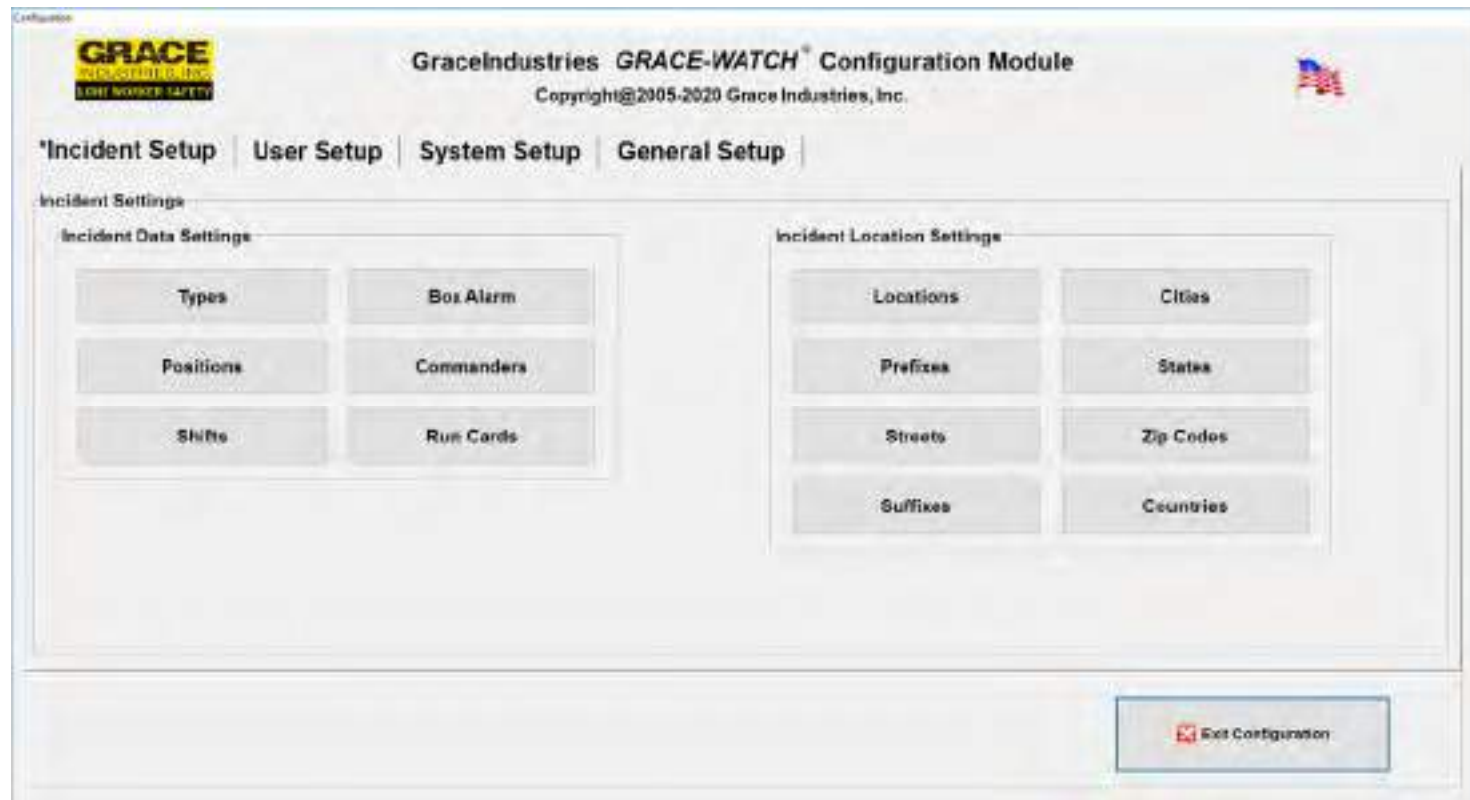
Deleting a Name File

- **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 worker worn devices assigned to users
- The five critical steps to prepare the software for use with worker worn 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 your System ID with the correct range of user IDs representing your worker worn man-down devices and Micro-Repeaters
 5. Make this created Name file the Active Name File
- Once these Five Steps are complete, the system can monitor worker worn 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



- 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 Grace-Watch 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 Grace-Watch 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 Grace-Watch is started
- Press Done when finished

Configuring Incident Plan Numbers

Configure Incident Plan Numbers

Default Incident Plan Number: 2204

☒ Load Default Incident Plan Number on Startup

Create New Incident Plan Number

Existing Incident Plan Numbers

2204
6505
6606
6808
7707
9780

+ Add Incident Plan Number

Make Selected Default

- Remove Plan Number

Enter a Label Value for the Plan Number (i.e. Box Alarm Number)

Label for Plan Numbers: PLAN NUMBER

DONE

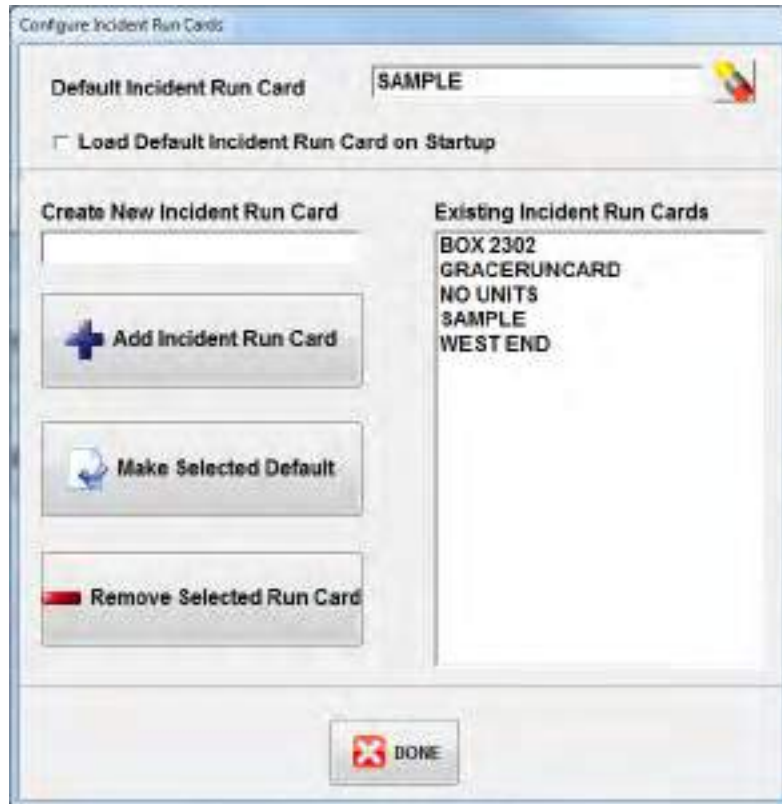
- Press the Plan Numbers Button to Edit Plan Numbers
- Enter a Plan Number into the Create New box and Press Add Plan Number - The Entry Will Be Added to the Dialog Box on the Right
- Highlight an Entry and Press Remove to Remove A Plan Number from the List
- Highlight an Entry and Press Make Default 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 Grace-Watch is started
- Enter the Custom Label to use for Plan Numbers, e.g. Box Alarm, etc.
- Press Done when finished

Configuring Incident Commanders



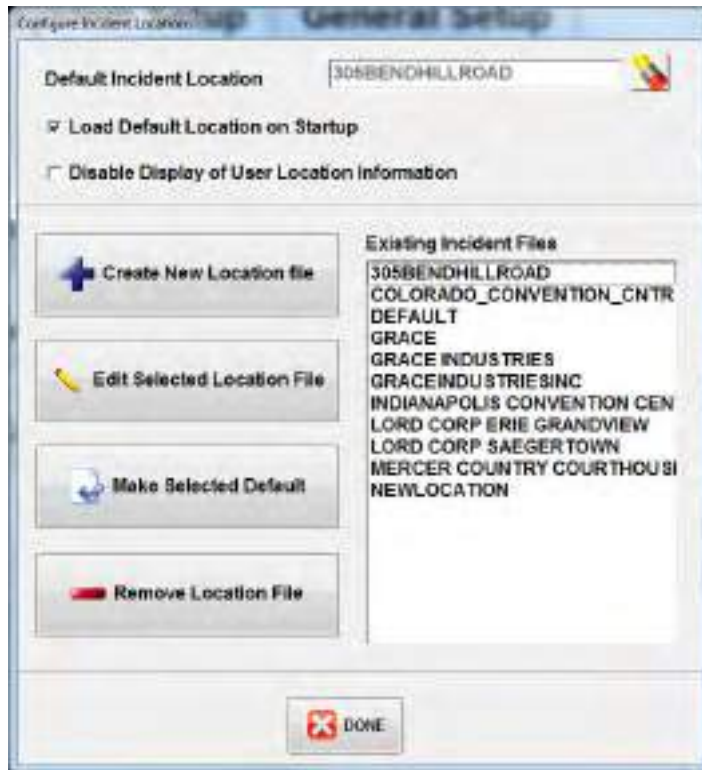
- Press the Commanders Button to Edit Incident Commanders
- Enter a Commander into the Create New box and Press Add Incident Commander - The Commander Will Be Added to the Dialog Box on the Right
- Highlight a Commander and Press Remove to Remove a Commander from the List
- Highlight a Commander and 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 Grace-Watch 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 Grace-Watch is started
- Press Done when finished

Configuring Incident Locations



- 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 Grace-Watch is started
- Press Done when finished

**The number of Location files possible
is virtually unlimited**

– limited by available hard drive space –

Creating a Location

Enter Location Description, Address Fields, Picture, and Individual Location Points (Names and Descriptions)

Location Name: 305BENDHILLROAD

Location Description: GRACE INDUSTRIES BUSINESS ADDRESS

Location Address:

Number	Prefix	Street	Suffix
305		BEND HILL	RD

City: FREDONIA State: PA Zip Code: 16148 Country: USA

Location Photo:

LOAD PICTURE

Manage Locators: [Manage Locators]

Plot Locators To Maps: [Plot Locators To Maps]

Done Cancel

- Enter all fields including name, description and address fields
- Press Load Picture to add a picture of the location
- Press Done when finished

***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

Enter Location Description, Address Fields, Picture, and Individual Location Points (Names and Descriptions)

Location Name: 305BENDHILLROAD

Location Description: GRACE INDUSTRIES BUSINESS ADDRESS

Location Address:

Number	Prefix	Street	Suffix
305		BEND HILL	RD

City: FREDONIA

State: PA

Zip Code: 16148

Country: USA

Location Photo:

LOAD PICTURE

Manage Locators: [Manage Locators]

Plot Locators To Maps: [Plot Locators To Maps]

Done Cancel

- 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”

Edit Location Information

Enter Location Description, Address Fields, Photos, and Individual Locator Points (Names and Descriptions)

Location Name: 305BENDHILLROAD Location Description: GRACE INDUSTRIES BUSINESS ADDRESS

Location Address:

Number	Prefix	Street	Suffix
305		BEND HILL	RD
City	State	Zip Code	Country
FREDONIA	PA	16148	USA

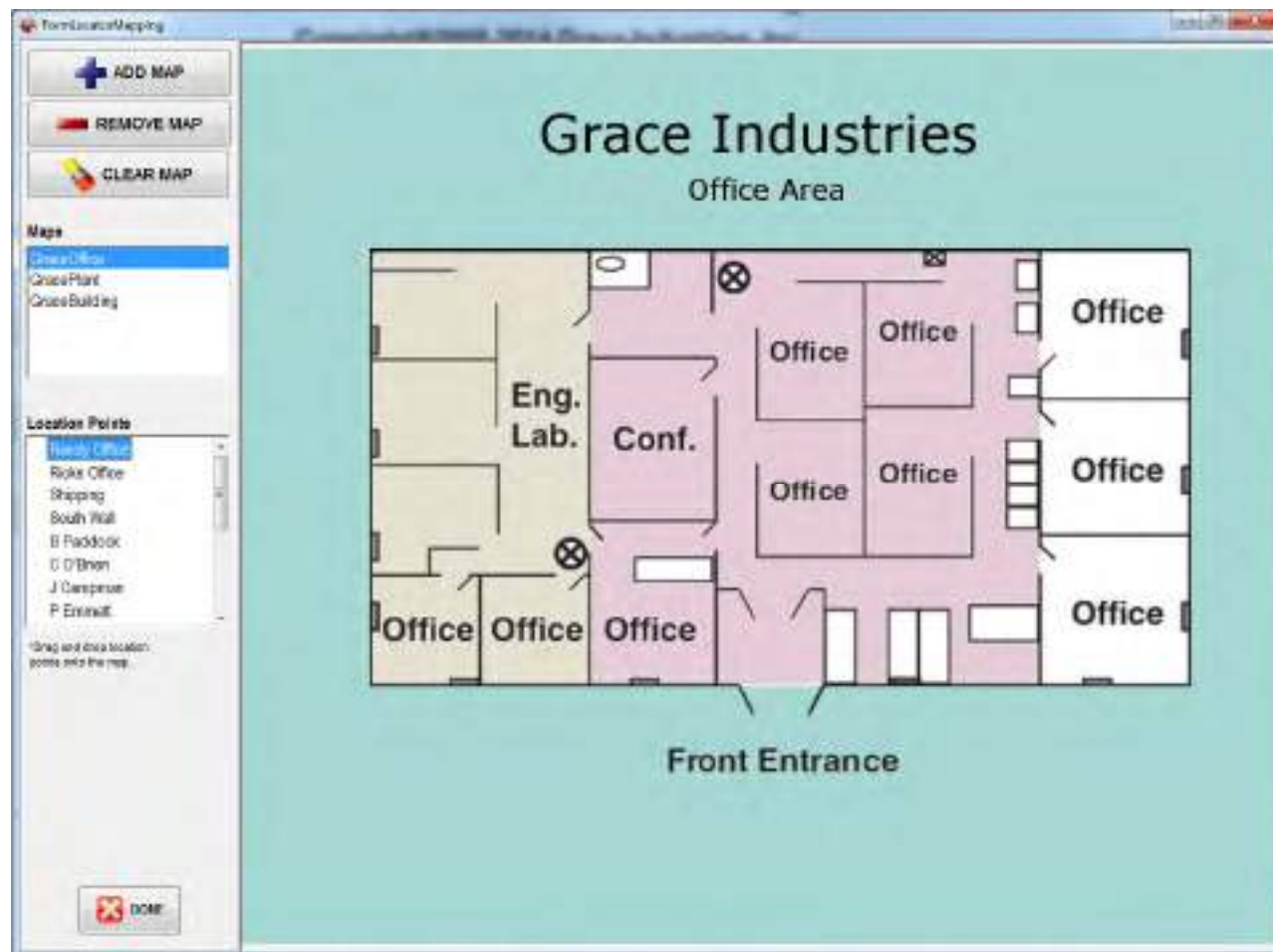
Location Photo:

Manage Locators:

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.
- **Maps 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

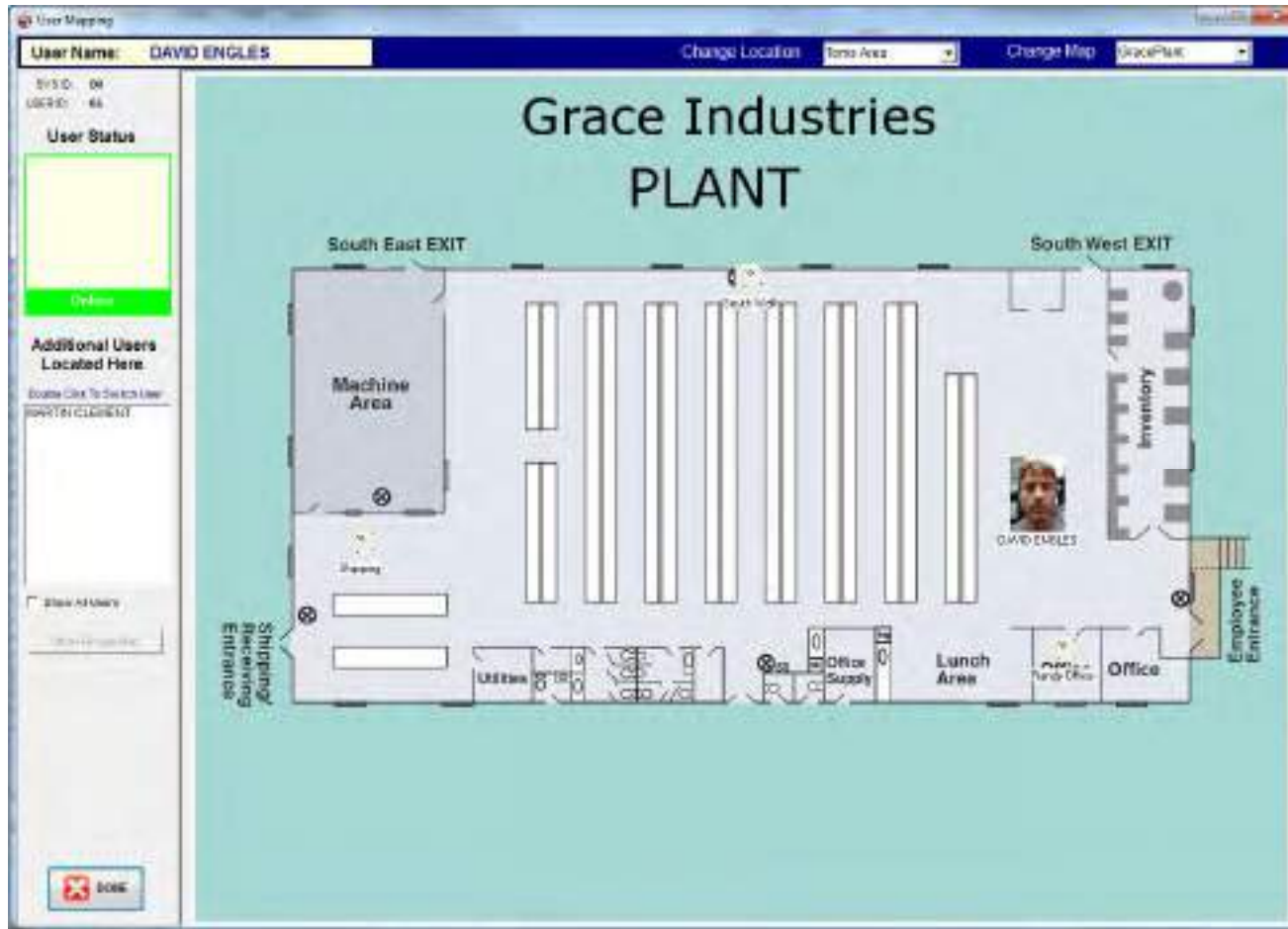
- These options describe how the locator will appear on an image during configuration.
- Include Locator Name
 - This will place the Location Point name next to the desired image on the map.
- Display Image
 - The image to be displayed. Two locator image provided for contrast.

■ 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 worker worn 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.

<u>Available Maps</u>		
World Imagery	Nat Geo World	Bing Imagery
World Street Maps	USA Topography	Bing Hybrid
World Topography	OpenStreet Maps	Bing Road

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.

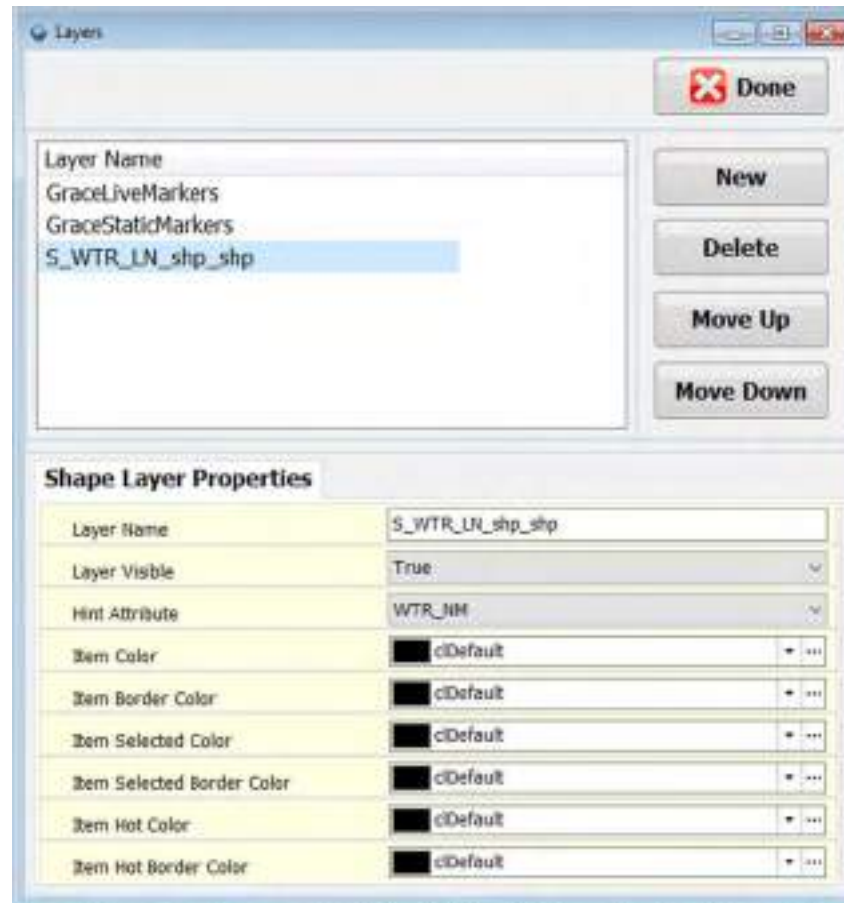
You can Add new layers, Delete layers and change the order of layers using the top right control buttons. The 2 base “Grace” layers do not have properties and cannot be removed.

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)

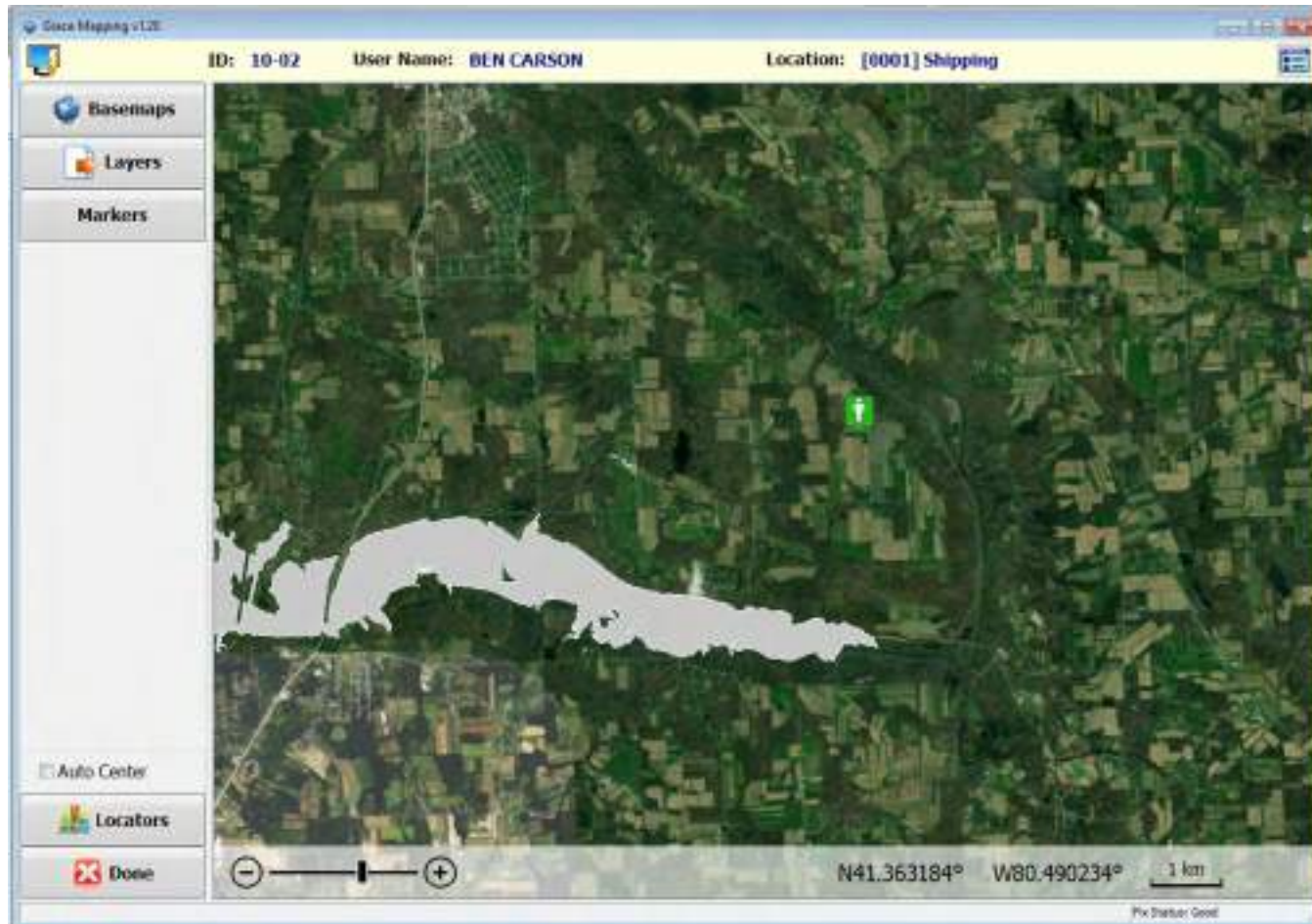
GPS Device Mapping

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.

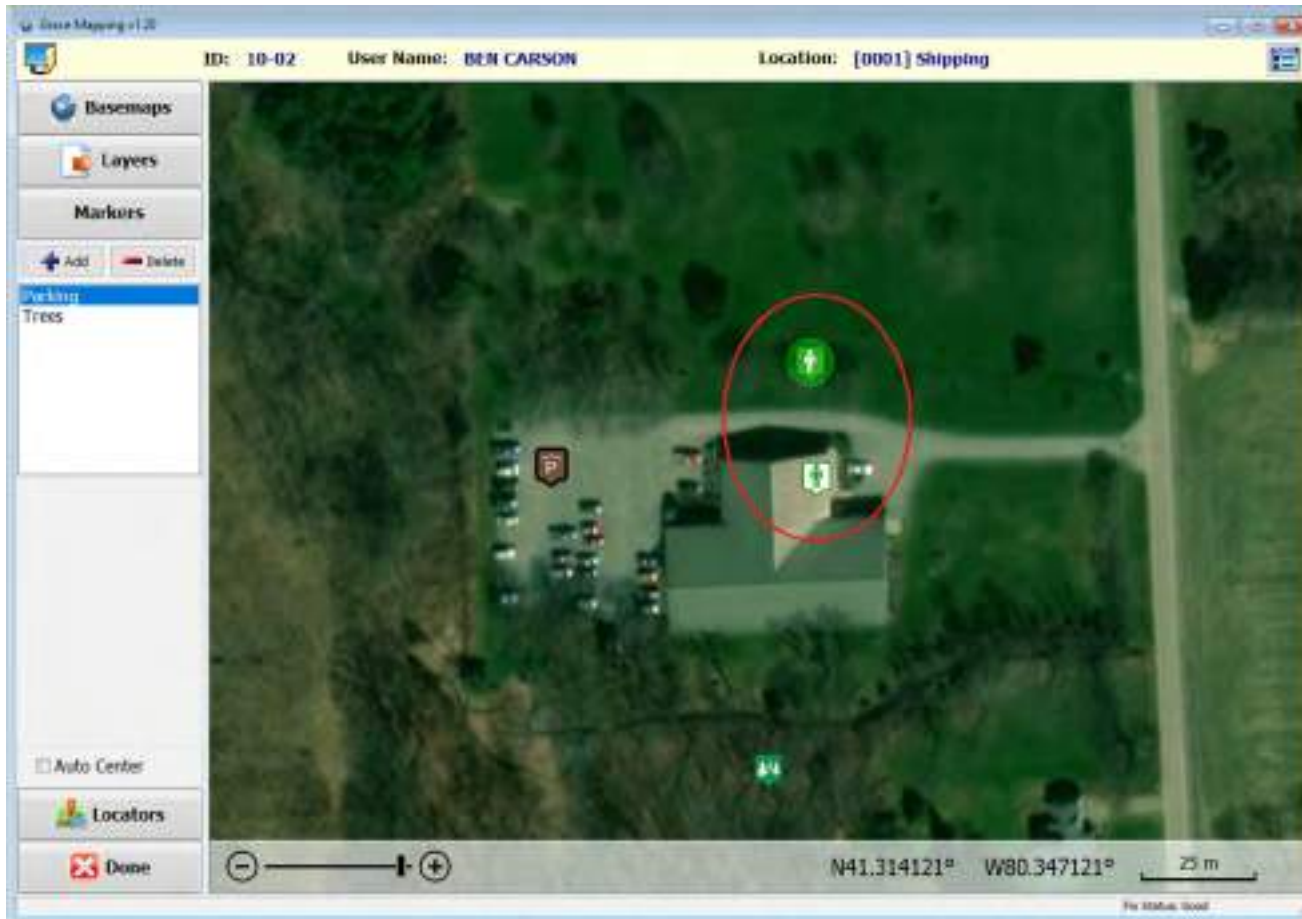
A smaller radius indicates a better signal. The radius will also use color as a visual indicator of signal quality (Green=Good, Yellow=Fair, Red=Poor). Fix Radius will only apply to the selected user and can only be seen at certain zoom levels of the map.

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



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 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 Grace-Watch 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 Grace-Watch 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 Grace-Watch. 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 Location Description, Address Fields, Picture, and Individual Location Points (Names and Descriptions)

Location Name: 305BENDHILLROAD

Location Description: GRACE INDUSTRIES BUSINESS ADDRESS

Location Address:

Number	Prefix	Street	Suffix
305		BEND HILL	RD

City	State	Zip Code	Country
FREDONIA	PA	16148	USA

Location Photo:

LOAD PICTURE

Manage Locators

Plot Locators To Maps

Done Cancel

- 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**

View and Edit Location Points

Enter Location Points Name and Description

Number	Name	Description	Latitude	Longitude
0001	Randy Office	Randy Office	41.313099	-80.339777
0002	Ricks Office	Research	41.313212	-80.339494
0003	Shipping	Plant Shipping		
0004	South Wall	Plant South		
0005	B Paddock	R&D Cubicle		
0006	C O'Brien	R&D Cubicle		
0007	J Campman	Main Office		
0008	P Emmett	Main Office		
0009	B Phillips	Main Office		
0010	Toms Area	Toms Area		
0011	Reception	Main Office		

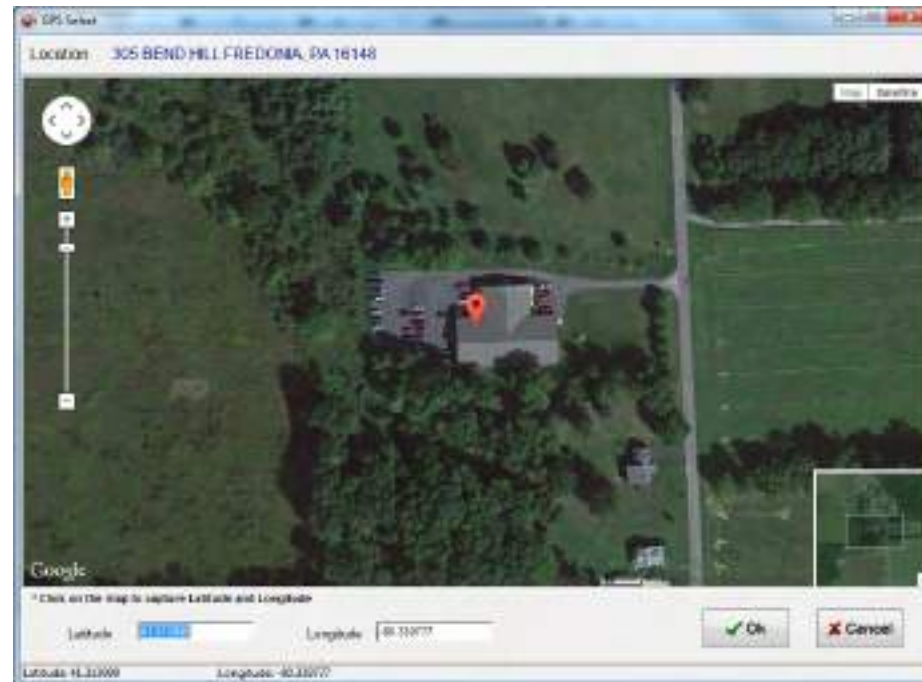
☒ Enable GPS Fields

DONE

*Click on the GPS fields to use the lookup form

- 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



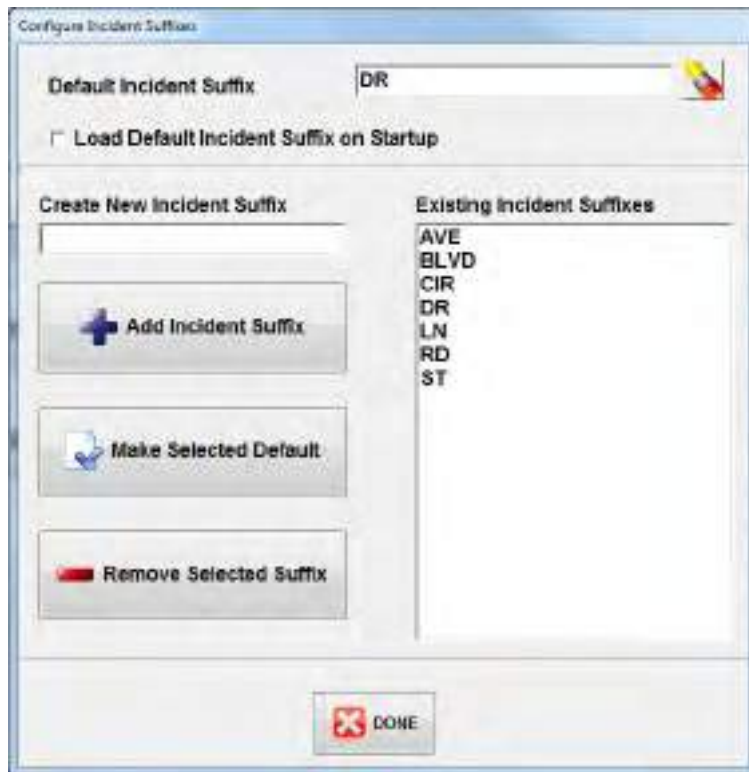
- Press the Prefixes Button to Edit Incident Prefixes
- Enter a Prefix into the Create New Box and Press Add Incident Prefix
- The Prefix Will Be Added to the Dialog Box on the Right
- Highlight a Prefix and Press Remove to Remove a Prefix from the List
- Highlight a Prefix and Press Make Default to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

Configuring Incident Cities

Configure Incident Cities

Default Incident City: FREDONIA

☐ Load Default Incident City on Startup

Create New Incident City

Existing Incident Cities

FREDONIA
GREENVILLE
HERMITAGE
INDIANAPOLIS
MERCER
NEW CASTLE
SHARON
SHARPSVILLE
TRANSFER

+ Add Incident City

Make Selected Default

- Remove Selected City

DONE

- 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 Grace-Watch 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 Grace-Watch is started
- Press Done when finished

Configuring Incident Zip Codes

Configure Incident Zip Codes

Default Incident Zip Code: 16124

☐ Load Default Incident Zip Code on Startup

Create New Incident Zip Code

Existing Incident Zip Codes

16124
16125
16130
16146
16148
16150
46225

+ Add Incident Zip Code

Make Selected Default

- Remove Selected Zip Code

DONE

- 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 Grace-Watch 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 Grace-Watch is started
- Press Done when finished

Configuring General Setup

Configuration

GRACE INDUSTRIES, INC.
LONG WORKER SAFETY

GraceIndustries **GRACE-WATCH®** Configuration Module
Copyright©2005-2020 Grace Industries, Inc.



Incident Setup | **User Setup** | **System Setup** | ***General Setup**

Custom Logo | Audio Alarm | Audio Evac

Load a Logo that is 153x73 Pixels or Smaller

Current Custom Logo
AMERICANFLAGLOGO.PNG

Preview

  Browse

Configuration Protection

☐ Show Warning Message On Entry







☐ Log Date And Time When Changes Are Made


☐ Password Protect

Password

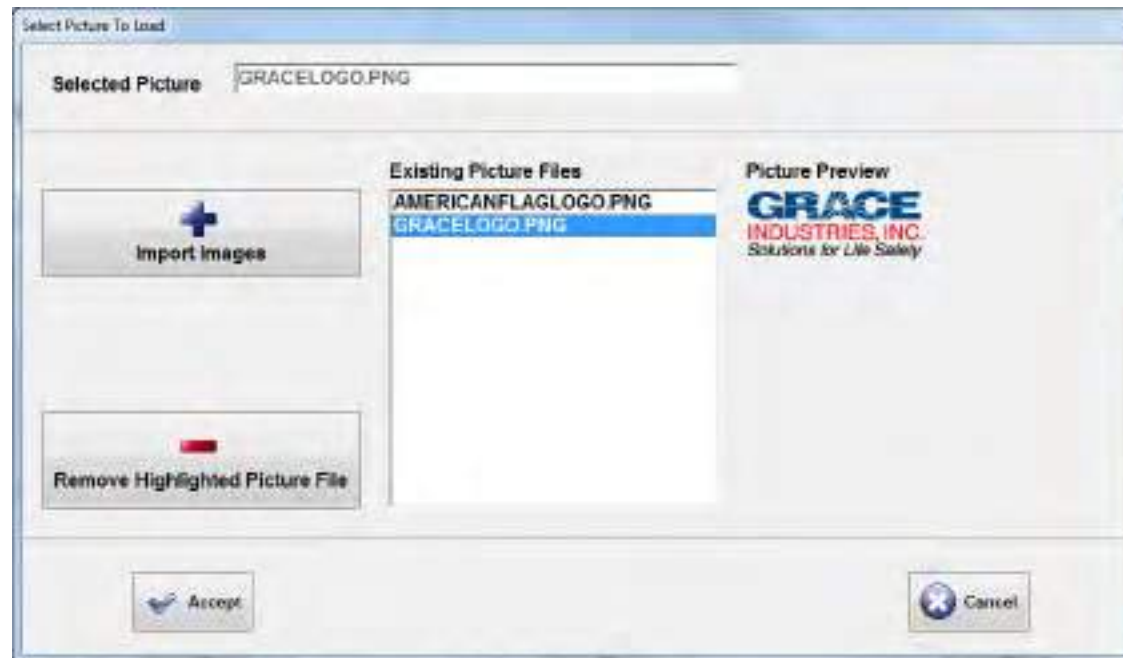
Retype Password

Incident And Data Management Options **Hot Keys** **Custom Log Events** **Canned Messages** **GPS Mapping** **Notifications**

 Configure  Configure  Configure  Configure  Configure  Configure

 Exit Configuration

Changing the Custom Logo



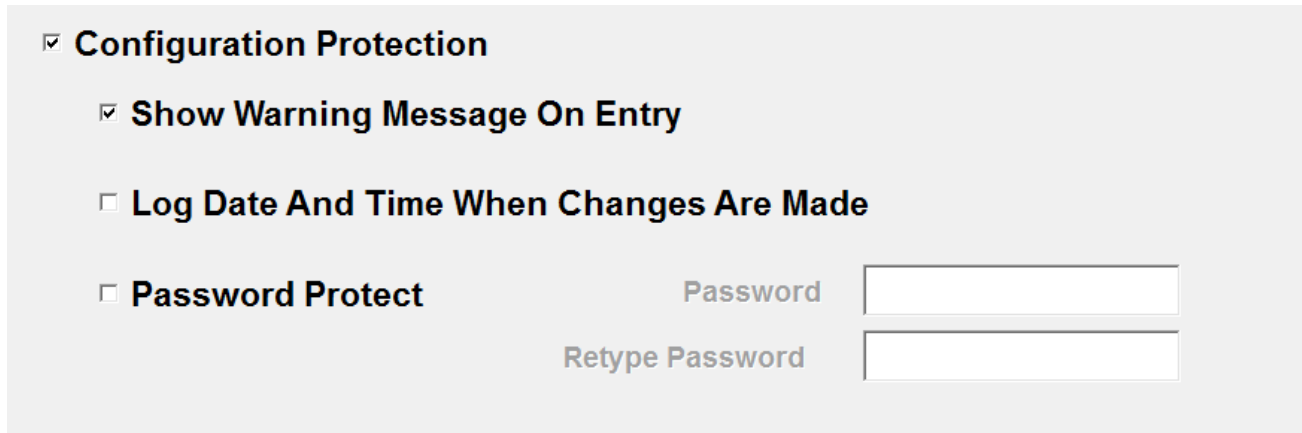
- Select Browse from the General settings Tab
- Select a picture from the list and press Select Highlighted Picture
- Logo graphic files must be placed in <Program Folder>\logos
- Press Accept to Accept the new picture or Cancel to cancel the action

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\Grace-Watch\Alarms

Configuration Protection



The screenshot shows a configuration window titled "Configuration Protection". It contains four checkboxes: "Configuration Protection" (checked), "Show Warning Message On Entry" (checked), "Log Date And Time When Changes Are Made" (unchecked), and "Password Protect" (unchecked). To the right of the "Password Protect" checkbox are two text input fields. The first field is labeled "Password" and the second field is labeled "Retype Password".

<input checked="" type="checkbox"/> Configuration Protection	
<input checked="" type="checkbox"/> Show Warning Message On Entry	
<input type="checkbox"/> Log Date And Time When Changes Are Made	
<input type="checkbox"/> Password Protect	Password <input type="text"/>
	Retype Password <input type="text"/>

- 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 Canned Messages for SuperCELL and WorkForce

Configure Text Messages

Enter Canned Messages for Transmission to Super Cell Devices

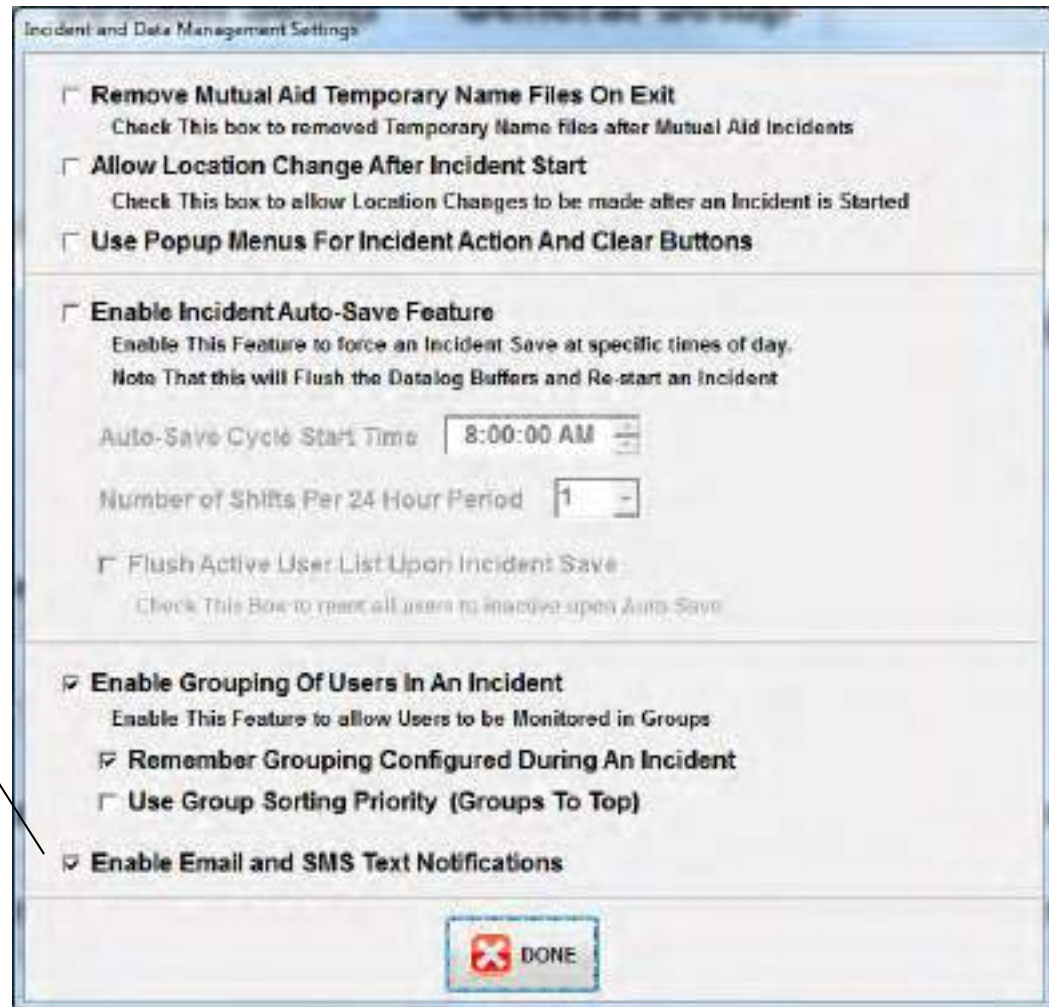
Group	User I.D.	Message
D0	120	Evacuate Sector
D0	121	No Message
D0	122	No Message
D0	123	No Message
D0	124	No Message
D1	120	Recall Team A
D1	121	No Message
D1	122	No Message
D1	123	No Message
D1	124	No Message
D2	120	Assist Group 2

 DONE

- Add canned messages desired to all 120 locations
- SuperCELL and WorkForce WF2 currently support 16 canned messages
- Grace-Watch supports 80 canned messages to account for future SuperCELL and WorkForce 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, text message or Grace system message to one or more recipients.



Incident and Data Management Settings

☐ Remove Mutual Aid Temporary Name Files On Exit
Check This box to removed Temporary Name Files after Mutual Aid Incidents

☐ Allow Location Change After Incident Start
Check This box to allow Location Changes to be made alter an Incident is Started

☐ Use Popup Menus For Incident Action And Clear Buttons

☐ Enable Incident Auto-Save Feature
Enable This Feature to force an Incident Save at specific times of day.
Note That this will Flush the Datalog Buffers and Re-start an Incident

Auto-Save Cycle Start Time

Number of Shifts Per 24 Hour Period

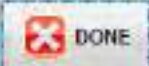
☐ Flush Active User List Upon Incident Save
Check This Box to react all users to inactive upon Auto-Save

☒ Enable Grouping Of Users In An Incident
Enable This Feature to allow Users to be Monitored in Groups

☒ Remember Grouping Configured During An Incident

☐ Use Group Sorting Priority (Groups To Top)

☒ Enable Email and SMS Text Notifications

 DONE

Configuring Notifications

Connections

The screenshot shows a 'Configure Notifications' window with the 'Connections' tab selected. It contains two main sections for configuring SMTP connections.

SMTP (Email)

- SMTP Server: smtp.gmail.com
- SMTP Port: 465
- Requires SSL Encryption: ☐
- Authentication: Login
- User Name: user@mydomain.com
- Password: [masked]

SMTP (Short Message Service)

- SMTP Server: smtp.mydomain.com
- SMTP Port: 25
- Requires SSL Encryption: ☐
- Authentication: None
- User Name: [empty]
- Password: [empty]

A 'DONE' button is located at the bottom of the window.

- 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

The screenshot shows a software window titled 'Configure Notifications' with a tabbed interface. The 'Triggers' tab is active. The window is divided into two main sections: 'Trigger Configuration' and 'Trigger Details'.

Trigger Configuration:

- Buttons: '+ Create Trigger Name', 'Modify Trigger' (with a pencil icon), and 'Delete Selected Trigger' (with a red minus icon).
- Trigger List: A list box containing 'User Panic'.

Trigger Details:

- Trigger Name: 'User Panic' (with a 'Descriptive Name' label).
- Sys ID Range: 'C0' To 'C0' (*Valid Range 00-FF).
- User ID Range: '01' To '99' (*Valid Range 01-99).
- Time Range: '12:00 AM' To '12:00 AM' (*Effective Time Range).
- Trigger Event: 'Panic Alarm' (selected from a dropdown).
- Locator Range: (empty) To (empty) (*Valid Range 0001-65535).
- Canned Msg ID's: (empty text box).
- ☐ Treat Trigger As Alarm.


Footer:

- A 'DONE' button with a red 'X' icon.

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 IDs 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 IDs 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 IDs to check for.
- **Grace Message IDs**
 - Select the ID of a worker worn (SuperCELL or WorkForce WF2) device 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 Events 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 Grace Message.

Configuring Notifications

Email

The screenshot shows a Windows-style dialog box titled "Configure Notifications". It has five tabs: "Email", "SMS Message", "Grace Message", "Connections", and "Triggers". The "Email" tab is selected. Inside the dialog, there is a checkbox labeled "Use Email Notifications" which is checked. Below this is a section titled "Email Notification". On the right side of this section is a checkbox labeled "Log To Incident". Under "Email Notification", there is a "Triggers" list box containing "User Panic". To the right of the list box are two buttons: "Select Trigger" (with a blue plus icon) and "Remove Trigger" (with a red minus icon). Below the triggers are three text fields: "From" with the value "fromuser@mydomain.com" (with an example "Ex: John@fromemail.com" to the right), "To" with the value "user@mydomain.com" (with an example "Ex: John@toemail.com" to the right), and "Subject" with the value "Notification". Below these is a "Message" section with a text area containing "Urgent: Please Respond". At the bottom of the dialog are two buttons: "Send Test Email" (with a green envelope icon) and "DONE" (with a red X icon).

Configure Notifications

*Email | SMS Message | Grace Message | Connections | Triggers

☒ Use Email Notifications

Email Notification

☐ Log To Incident

Triggers: User Panic

+ Select Trigger

- Remove Trigger

From: fromuser@mydomain.com Ex: John@fromemail.com

To: user@mydomain.com Ex: John@toemail.com

Subject: Notification

Message

Urgent: Please Respond

Send Test Email

DONE

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

Configure Notifications

Email *SMS Message Grace Message Connections Triggers

☒ Use SMS Notifications

SMS Notification ☐ Log To Incident

Triggers: User Panic

From: fromuser@mydomain.com Ex: John@fromemail.com

Mobile #: 2345438765 10-digit phone number

Carrier: AT&T

Subject: Notification

Message: Urgent: Please Respond

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

Grace Message

The screenshot shows the 'Configure Notifications' window with the 'Grace Message' tab selected. The window has a title bar with standard OS controls. Below the title bar are tabs for 'Email', 'SMS Message', 'Grace Message' (selected), 'Connections', and 'Triggers'. The main content area is divided into sections. The first section, 'Grace Message Notification', has a checkbox 'Use Grace Message Notifications' which is checked. To its right is a checkbox 'Log To Incident' which is unchecked. Below these is a 'Triggers' list containing 'User Panic'. To the right of this list are two buttons: '+ Select Trigger' and '- Remove Trigger'. The second section, 'Grace Messages To Send', contains a list with '10-120 Evacuate Sector'. To the right of this list are three buttons: '+ Canned Msg', '+ Free Form Msg', and '- Remove Msg'. At the bottom of the window is a 'DONE' button with a red 'X' icon.

Select the third tab on the notification configuration screen to setup a Grace Message notification.

Field Descriptions

- **Use Grace 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 Grace Message notification.
 - Use the Remove Trigger button to remove a trigger from the Grace Message notification.
- **Grace 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

Incident and Data Management Settings

☒ **Remove Mutual Aid Temporary Name Files On Exit**
Check This box to removed Temporary Name files after Mutual Aid Incidents

☒ **Allow Location Change After Incident Start**
Check This box to allow Location Changes to be made after an Incident is Started

☐ **Use Popup Menus For Incident Action And Clear Buttons**

☐ **Enable Abandon Evac Feature**

☐ **Enable Removal of OFF or No Signal Units from the Incident Scene.**

☐ **Use Real Time Clock Set Message (Radio H Only)**

☐ **Enable Incident Auto-Save Feature**
Enable This Feature to force an Incident Save at specific times of day.
Note That this will Flush the Datalog Buffers and Re-start an Incident

Auto-Save Cycle Start Time

Number of Shifts Per 24 Hour Period


☐ **Flush Active User List Upon Incident Save**
Check This Box to reset all users to inactive upon Auto-Save

☒ **Enable Grouping Of Users In An Incident**
Enable This Feature to allow Users to be Monitored in Groups

☐ **Remember Grouping Configured During An Incident**

☐ **Use Group Sorting Priority (Groups To Top)**

☐ **Enable Email and SMS Text Notifications**

 DONE

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

Grace Industries Grace-Watch

GRACE
INDUSTRIES, INC.
LONG WORKER SAFETY

GRACE-WATCH®
Emergency Signaling and Automated Personnel Accountability

Incident Information (All Values Auto Filled)

Incident Name Incident # Incident Date and Time

Incident Data

Select Incident Type Select Position Shift

NORMAL OPERATION ENGINEERING

Box Alarm Commander Load Run Card

Incident Location

Location Files :

Number Prefix Street Suffix

City State Zip Code Country

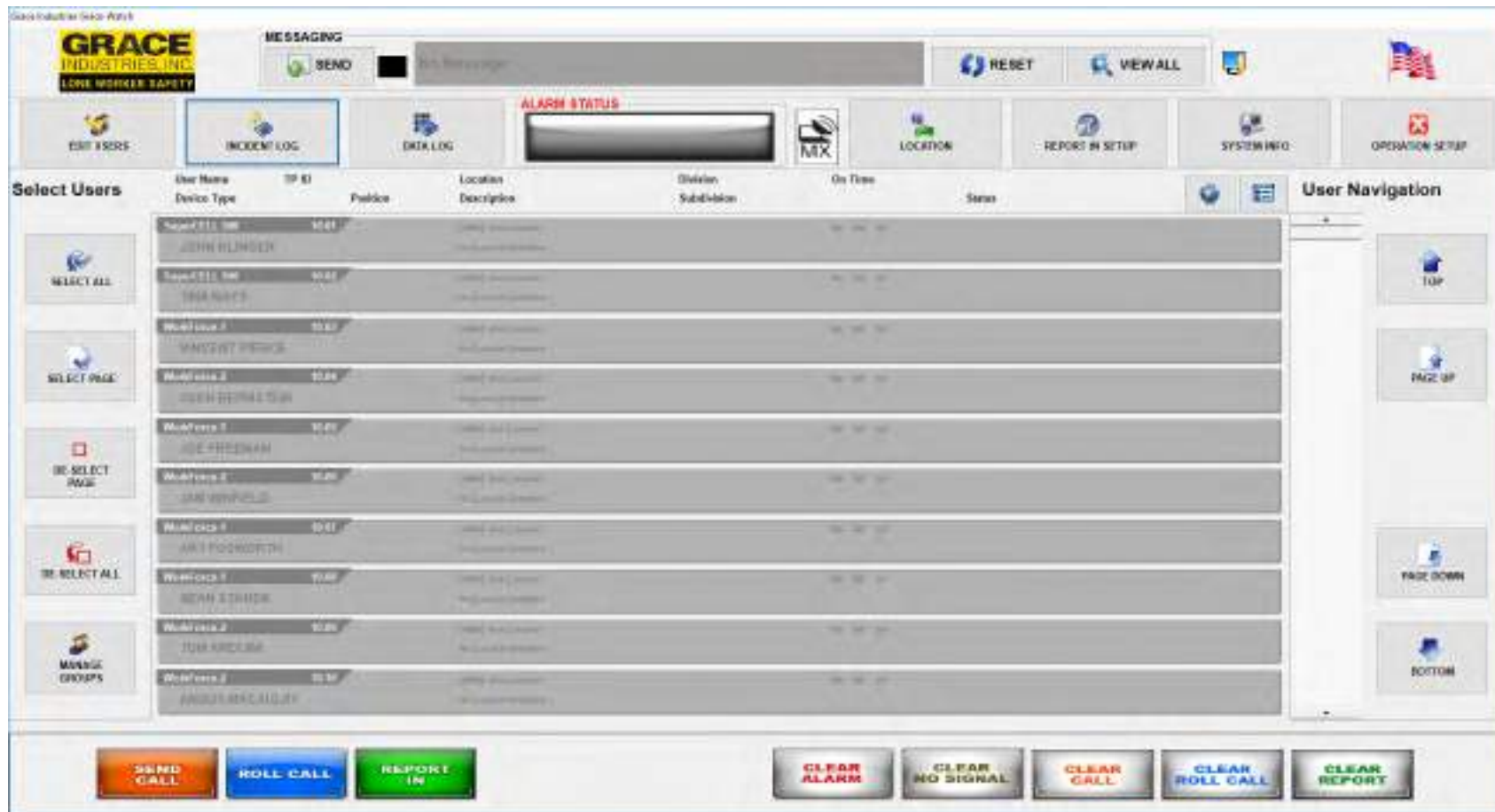
Version 3.05 ©1996 Patent Protected US 7,538,895

Configure Show Utilities **Start Incident** Stop Incident Exit

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 Grace Messaging 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 Grace-Watch System.

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

Users that check in to the Grace-Watch 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 worker worn 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 use 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 worker worn 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 user's alarm has been reset, the alarm status image may be cleared using the Clear Alarm button located on the action bar.

Call-Back, Report-In, and Roll Call commands may be manually sent to the worker worn devices by selecting a user or user's and pressing the appropriate button on the action bar. A message will be transmitted to the worker's 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.

Report-In and Roll call commands can also be sent automatically to the worker worn devices at regular time intervals using the Auto Report-In setup page and setting the desired parameters.

Managing an Incident

Continued

Canned or free form messages may be sent to SuperCELL and WorkForce WF2 devices using the Grace messaging screen accessed using the Send Button in the Grace messaging box. Grace messages received from SuperCELL and WorkForce will be displayed in the Grace 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 Grace-Watch 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 Grace-Watch Incident Viewer.

Communications Fault



- If the MX900-H 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.

Monitor Screen with Active Users

Grace Industries, Inc. - Lone Worker Safety

MESSAGING: SEND [Text Message] RESET VIEW ALL [Icons]

EDIT USERS INCIDENT LOG DATA LOG ALARM STATUS [MX] LOCATION REPORT IN SETUP SYSTEM INFO OPERATION SETUP

Select Users

User Name	TP ID	Position	Location Description	Device Subscription	On Time	Status
Workforce 1	15.01		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
JOHN KLINGER						
SuperCELL 501	15.02		[0000] Not Located	No Location Detected	00:00:11	[Green Status Icon]
VINCENT PIERCE						
Workforce 2	15.03		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
SEAN STANER						
SuperCELL 501	15.04		[0000] Not Located	No Location Detected	00:00:11	[Green Status Icon]
TRIG MARY						
Workforce 2	15.05		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
EVAN DEGENSTEIN						
Workforce 1	15.06		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
JOE TOSMAN						
Workforce 2	15.07		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
JAN VENTILLO						
Workforce 1	15.08		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
JOE TOSMAN						
Workforce 2	15.09		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
TOMARDON						
Workforce 2	15.10		[0000] Not Located	No Location Detected	00:00:20	[Green Status Icon]
JAMES BINGHAM						

User Navigation: TOP PAGE UP PAGE DOWN BOTTOM

SEND CALL ROLL CALL REPORT IN CLEAR ALARM CLEAR NO SIGNAL CLEAR CALL CLEAR ROLL CALL CLEAR REPORT

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 Abandon, Call-Back, Report-In, Roll Call, Auto Report-In, 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 user's 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, Call-Back, Report-In 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 screenshot shows a 'User Profile' window with a title bar. At the top, there are buttons for 'SAVE', 'PREV USER', 'NEXT USER', 'LOAD PICTURE', and 'DONE'. Below these is a green header bar with 'TPASS Device Settings' and fields for 'Group ID: 01', 'User ID: 05', and 'Device Type: SuperCell 508'. To the right of the header bar, it says 'PAR/Police Enabled' and 'Motion and Panic Alarms'. The main area contains a form for user information. On the left, there are fields for 'Name: VINCENT PIERCE', 'Position:', 'Rank:', 'Shift:', and 'Group:'. In the center, there is a small photo of a man and a 'Location: (9999) Not Located' field. On the right, there is a 'User Status' section with a green box and a 'User Status' label. Below the photo, there is a 'Description: No Location Detected' field. At the bottom, there is a 'Personal Information' section with fields for 'ID Number:', 'Height:', 'Weight:', 'Blood Type:', and 'Birth Date:'. Below this is a 'Notes' section with a large text area. At the very bottom, there is a tabbed interface with tabs for 'EXPERIENCE', 'HEALTH ISSUES', 'TRAINING', 'SPECIAL SKILLS', 'CONTACTS', and 'SHIFT INFO'.

- 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



The screenshot shows a 'User Assignment' dialog box. At the top, there are four buttons: 'SAVE' (with a floppy disk icon), 'PREV USER' (with a left arrow), 'NEXT USER' (with a right arrow), and 'DONE' (with a red X icon). Below these buttons, a green bar displays 'TPASS Device Settings' and 'PAR/Solical Enabled'. Underneath, it shows 'Group ID: D0' and 'User ID: 05'. The main section contains user details: 'Name: VINCENT PIERCE', 'Pos:', 'Rank:', and 'Shift:'. To the right of these fields is a small portrait photo of a man. Below the name fields, there is a 'User Status' section with a yellow box containing the word 'Online'. To the right of this box, it shows 'Online Time: 00: 01: 25' and 'Alarm Time: 00: 00: 00'. Further down, it displays 'Location: [0000] Not Located' and 'Description: No Locator Detected'. At the bottom, there are two dropdown menus labeled 'Assigned To: SECTOR' and 'RESOURCE'.

- 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 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 Call-Back, Report-In, or Roll Call or clear a status condition such as Alarm, Report-In, 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

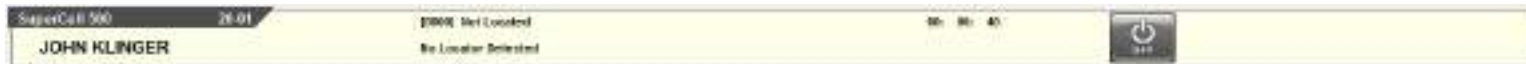
- **User Status Images give a quick visual representation of a user's status during an incident**
- **Status Images for Grace-Watch Systems are:**
 - **On, Off, None (Only when user is inactive)**
 - **Alarm, Alarm Cleared**
 - **No-Signal, No-Signal Cleared**
 - **Abandon,**
 - **Call-Back Command,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

On, Off, or No Status

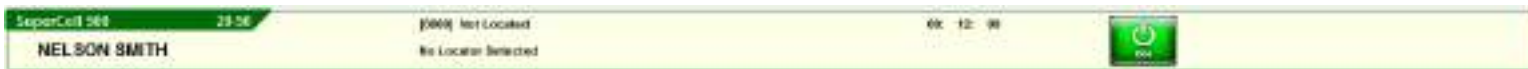
- **No Status** – User Inactive, i.e. has not checked into the system



- **OFF Status** – User's worker worn device is turned OFF

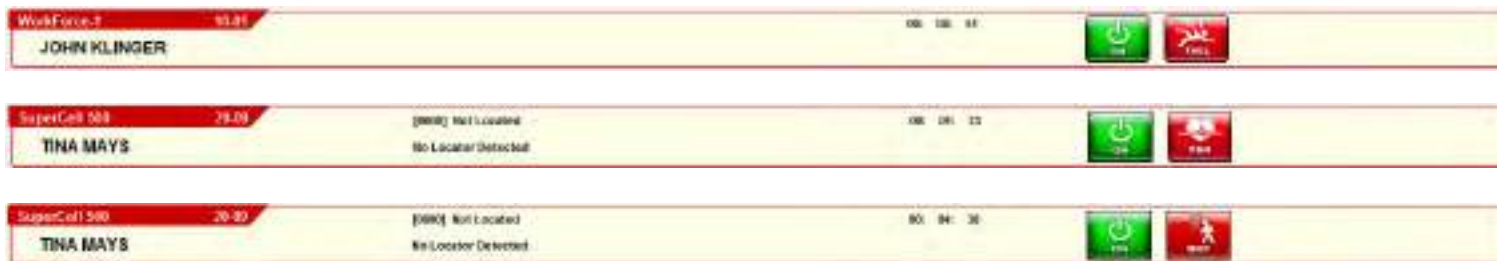


- **ON Status** – User's worker worn device is turned ON



Alarm/Alarm Cleared Status Images

- Alarm Status Image – Worker Worn Device is in ALARM
- Caused by Emergency Alarm Button Press on worker worn device or from a Lack of Motion condition, or by a fall detected with the WorkForce



- 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 Grace-Watch has not received a Message from a device within the No-Signal Time setting**
- **Default setting for No-Signal is 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 devices in which signal is no longer present**



Abandon Command* / Sent / Received / Acknowledge Status

(*Abandon is an optional feature in the Grace-Watch System)

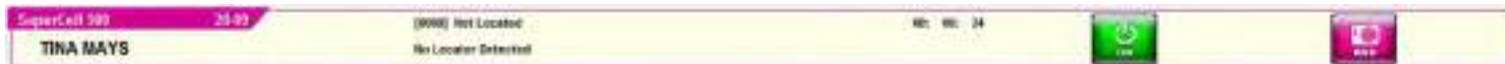
- Abandon Command – Abandon has been commanded



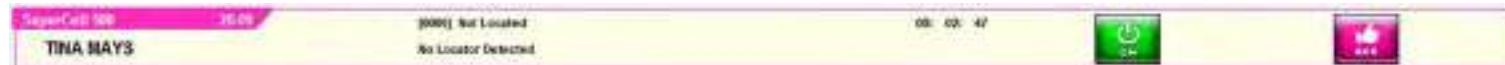
- Abandon Sent Status Image – Abandon Message has been sent to the worker worn device



- Abandon Received Status Image – Abandon Received Message has been transmitted from the worker's device

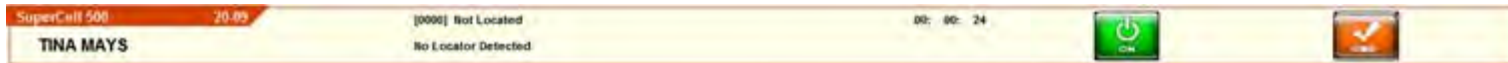


- Abandon Acknowledged Status Image – Abandon Acknowledge Message has been transmitted from the worker's device



Call-Back / Sent / Received / Acknowledge Status

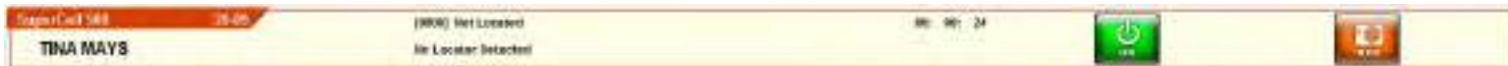
- Call-Back Command – A Call-Back has been commanded



- Call-Back Sent Status Image – A Call-Back Message has been sent to the worker worn device



- Call-Back Received Status Image – A Call-Back Received Message has been transmitted from the worker's device



- Call-Back Acknowledged Status Image – A Call-Back Acknowledge Message has been transmitted from the worker's device



Report-In / Sent / Received / Acknowledge Status

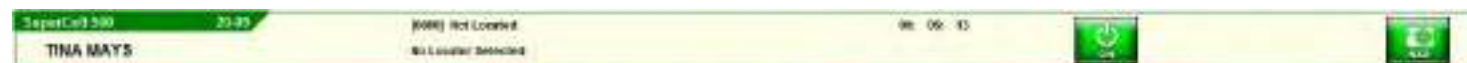
- Report-In Command – A Report-In has been commanded



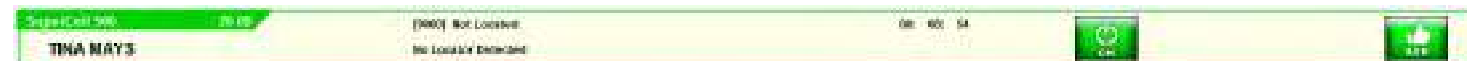
- Report-In Sent Status Image – A Report-In Message has been sent to the worker worn device



- Report-In Received Status Image – A Report-In Received Message has been transmitted from the worker's device



- Report-In Acknowledged Status Image – A Report-In Acknowledge Message has been transmitted from the worker's device



Auto Report-In Command / Sent / Acknowledge Status

- Auto Report-In Command – An Auto Report-In has been issued



- Auto Report-In Sent Status – An Auto Report-In Message has been sent to the worker worn device



- Auto Report-In Received Status – A Report-In Received Message has been transmitted from the worker's device

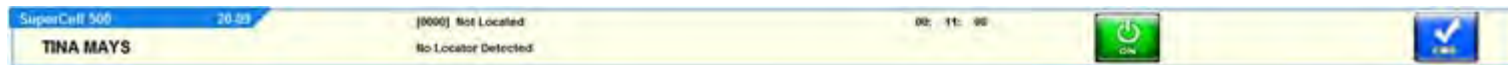


- Auto Report-In Acknowledged Status – An Auto Report-In Acknowledge Message has been Automatically transmitted from the worker's device



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 worker worn Device



- Roll Call Received Status Image – A Roll Call Received Message has been transmitted from the worker's device



- Roll Call Acknowledged Status Image – A Roll Call Acknowledge Message has been transmitted from the worker's 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 Grace-Watch System sorted from highest priority to lowest priority:

Fall Alarm Status: Highest priority; always sorted to the top of the user list on the monitor screen.

Alarm Status: Second highest priority.

No Signal Status

Abandon Status: (Abandon Commanded, Sent, Received, and Acknowledged)

Call-Back Status: (Call-Back Commanded, Sent, Received, and Acknowledged)

Roll Call Status: (Roll Call Commanded, Sent, Received, and Acknowledged)

Report-In and Auto Report-In Status: (Report-In Commanded, Sent, Received, and Acknowledged)

Withdrawn Status: in Mode 2. *NOTE: In Mode 1, this status will be sorted below Off status.*

User On Status: in Mode 2. *NOTE: In Mode 1, this status will be sorted below Off status.*

User Off Status: in Mode 2. *NOTE: In Mode 1, this image will be sorted above the On status images.*

Alarm Cleared Status: has no effect on the sort order of the user on the monitor screen.

No Signal Cleared Status: Lowest priority score of all online status images.

Micro-Repeater: Always displayed below normal users in the same system ID range.

Non-Active User: Users that have not checked into the system; always sorted below the users that have checked into the system with any status listed above.

User Sort Priority

Continued...

Users with Equal Priority: If multiple users have the same priority scores based on the above statuses, then the users will be sorted within that score based on Group ID and User ID.

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 IDs and then the Auxiliary IDs 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

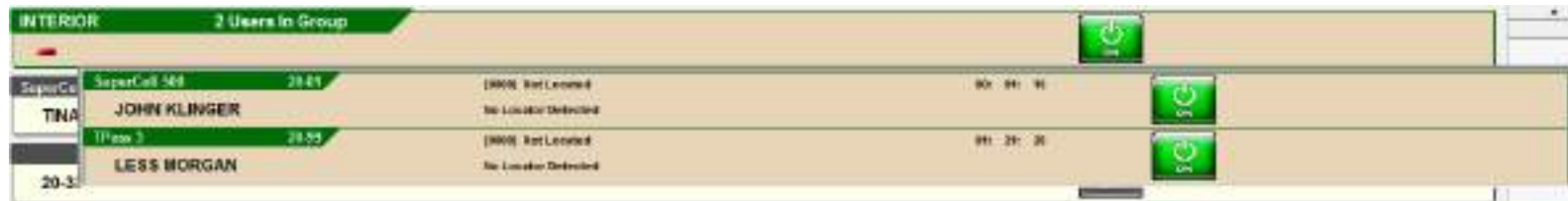
These two options reverse the order in which On and Off units are displayed.

With Mode 1, all Off units display above On units.

In Mode 2, all On units display above Off units. Mode 2 is the most commonly used mode.

Note: All other sorting rules apply regardless of which mode is chosen.

Grouping



The screenshot shows a monitoring interface with a group titled 'INTERIOR' containing '2 Users In Group'. The group is expanded, showing three users: 'JOHN KLINGER' and 'LESS MORGAN' (both with status '20:01' and 'No Location Detected') and 'Tina' (with status '20:01' and 'No Location Detected'). Each user entry has a green status icon on the right. The interface also shows a 'SuperCell 568' entry and a '20:31' timestamp.

INTERIOR		2 Users In Group			
SuperCell	SuperCell 568	20:01	[9000] Not Located	00: 01: 01	[Status Icon]
Tina	JOHN KLINGER	20:01	No Location Detected		[Status Icon]
	Tina	20:01	No Location Detected		[Status Icon]
20:31	LESS MORGAN	20:01	No Location Detected		[Status Icon]

- 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 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 Call-Back, Roll Call and Report-In 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

Group Manager


☒ Add Selected Users To New Group
☐ Move Grouped Users To A New Group

New Group Name:

 CREATE GROUP

☐ Add Selected Users To Existing Group
☐ Move Grouped Users To A Different Group

Available Groups:


 ADD USERS


☐ Undo Grouping For Selected Groups

 UNDO

☐ Remove Selected Users From Their Groups

Existing Users:

 REMOVE USERS

 Cancel

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.
- **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

☒ **Enable Grouping Of Users In An Incident**

Enable This Feature to allow Users to be Monitored in Groups

☒ **Remember Grouping Configured During An Incident**

- 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 Abandon
 - Send Call-Back
 - Call for Report-In
 - Call for Roll Call
 - Clear Alarm
 - Clear No-Signal Condition
 - Clear Abandon
 - Clear Roll Call
 - Clear Report-In
 - Clear Call-Back

Send Abandon to User(s)



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

Clearing an Abandon Command



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

Call-Back a User(s)



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

Clearing an Call-Back Command



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

Performing a Manual Report-In



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

Clearing an Manual Report-In



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

Performing a Roll Call



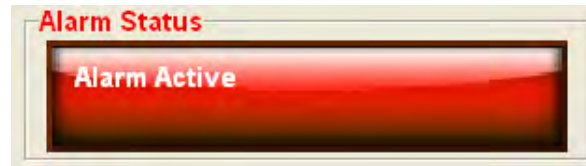
- **Select User(s) to contact for Roll Call**
- **Press and hold the Roll Call Button for .5 seconds (or longer than the hold time set in configuration)**
- **Watch as Roll Call Commands are Initiated and Sent to the selected user(s)**
- **Watch for the Roll Call Received Status Image for each user being contacted for Roll Call to be achieved, indicating the worker worn 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 worker worn 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 worker worn 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 worker worn 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 Report-In Setup
- It also contains the Operation Setup button to return to operation setup and save or cancel an incident
- The Auto Report-In feature is a great way to perform Report-In checks at regular intervals with minimal time and labor required

Auto Report-In Setup

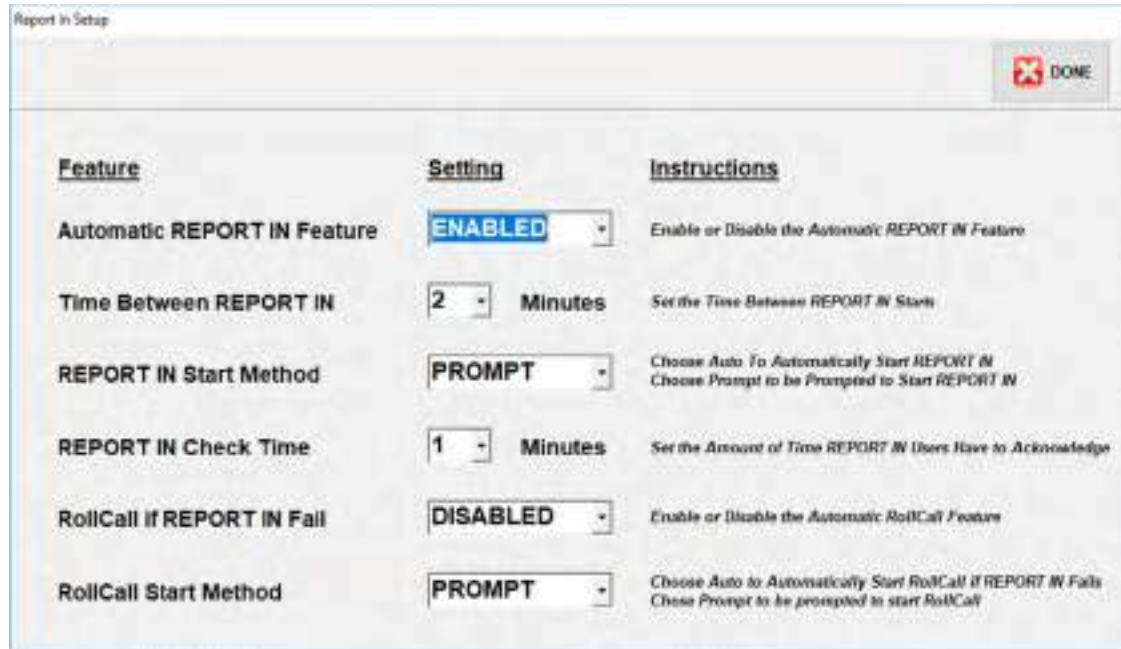
Report In Setup



<u>Feature</u>	<u>Setting</u>	<u>Instructions</u>
Automatic REPORT IN Feature	DISABLED -	Enable or Disable the Automatic REPORT IN Feature
Time Between REPORT IN	2 - Minutes	Set the Time Between REPORT IN Starts
REPORT IN Start Method	PROMPT -	Choose Auto To Automatically Start REPORT IN Choose Prompt to be Prompted to Start REPORT IN
REPORT IN Check Time	1 - Minutes	Set the Amount of Time REPORT IN Users Have to Acknowledge
RollCall if REPORT IN Fail	DISABLED -	Enable or Disable the Automatic RollCall Feature
RollCall Start Method	PROMPT -	Choose Auto to Automatically Start RollCall if REPORT IN Fails Chose Prompt to be prompted to start RollCall

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

Auto Report-In Setup



The screenshot shows a 'Report In Setup' window with a 'DONE' button in the top right corner. The window contains a table with three columns: 'Feature', 'Setting', and 'Instructions'.

Feature	Setting	Instructions
Automatic REPORT IN Feature	ENABLED	Enable or Disable the Automatic REPORT IN Feature
Time Between REPORT IN	2 - Minutes	Set the Time Between REPORT IN Starts
REPORT IN Start Method	PROMPT	Choose Auto To Automatically Start REPORT IN Choose Prompt to be Prompted to Start REPORT IN
REPORT IN Check Time	1 - Minutes	Set the Amount of Time REPORT IN Users Have to Acknowledge
RollCall if REPORT IN Fail	DISABLED	Enable or Disable the Automatic RollCall Feature
RollCall Start Method	PROMPT	Choose Auto to Automatically Start RollCall if REPORT IN Fails Choose Prompt to be prompted to start RollCall

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

Automatic Report-In Countdown



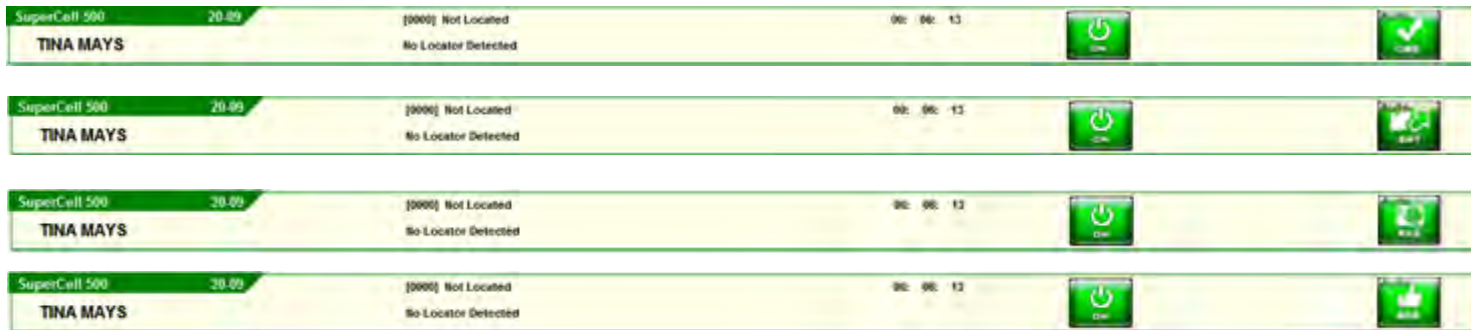
- Once the Auto Report-In is enabled, notice that the Alarm Status Box will display the remaining time before the Report-In is initiated
- If an Alarm occurs, the Alarm Message will be displayed over top of the Auto Report-In countdown

Automatic Report-In Time Reached



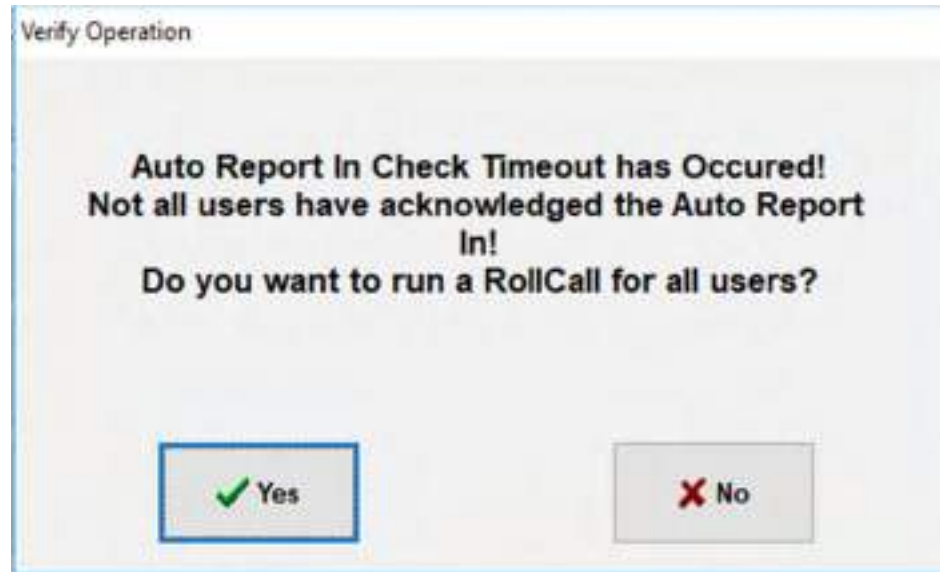
- Once the Report-In Time reaches zero, the Report-In check will begin automatically if the Report-In start method is set to Automatic
- Otherwise the above message will appear
- Selecting Yes will start the Report-In check
- Selecting No will reset the Report-In timer to the Report-In Check time value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

Automatic Report-In Started



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


Auto Report-In Check Failure



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

Setting up Auto Roll Call

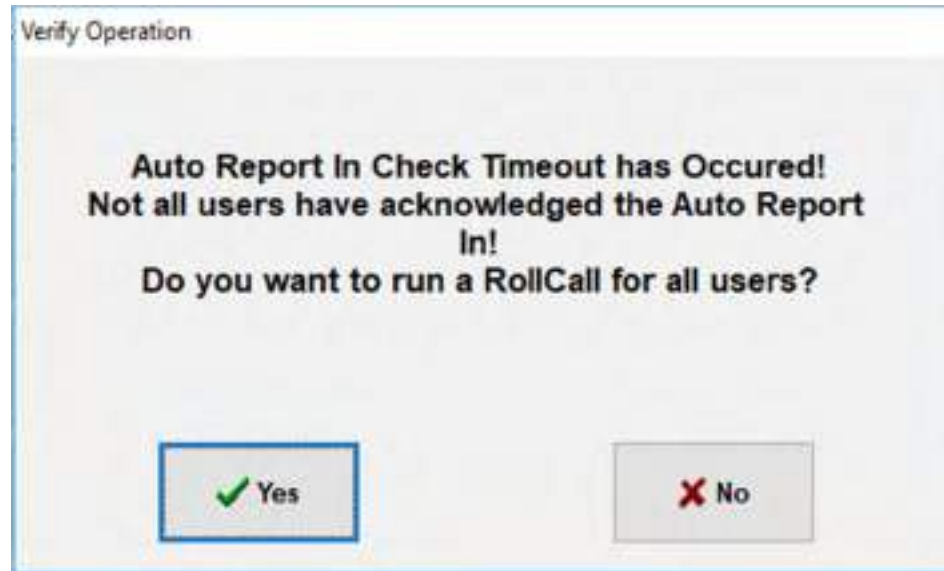
Report In Setup

 DONE

<u>Feature</u>	<u>Setting</u>	<u>Instructions</u>
Automatic REPORT IN Feature	ENABLED ▾	Enable or Disable the Automatic REPORT IN Feature
Time Between REPORT IN	2 ▾ Minutes	Set the Time Between REPORT IN Starts
REPORT IN Start Method	PROMPT ▾	Choose Auto To Automatically Start REPORT IN Choose Prompt to be Prompted to Start REPORT IN
REPORT IN Check Time	1 ▾ Minutes	Set the Amount of Time REPORT IN Users Have to Acknowledge
RollCall if REPORT IN Fail	ENABLED ▾	Enable or Disable the Automatic RollCall Feature
RollCall Start Method	PROMPT ▾	Choose Auto to Automatically Start RollCall if REPORT IN Fails Choose Prompt to be prompted to start RollCall

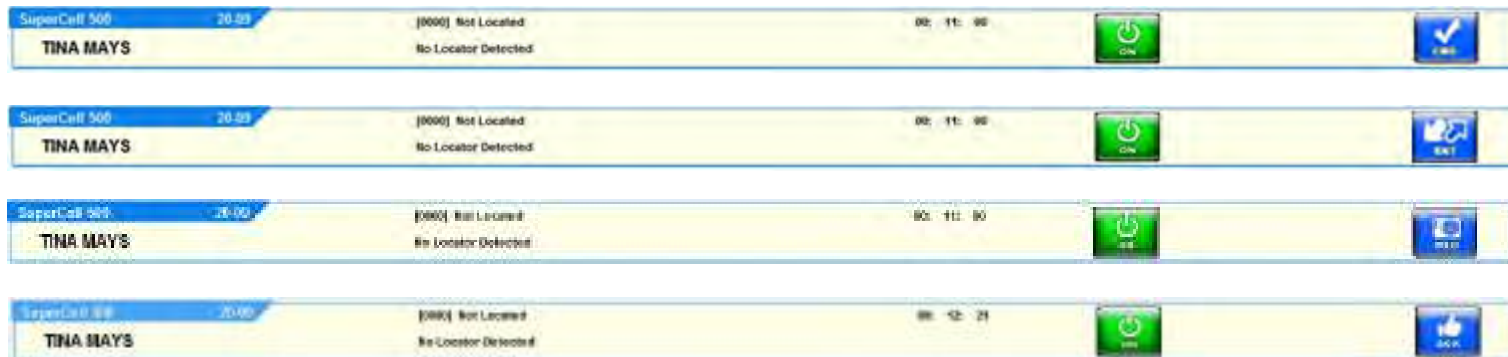
- Press the Report In Setup button on the Main Bar and the above Dialog will appear
- Automatic Roll Call must be enabled and setup before use

Automatic Report-In Time Reached



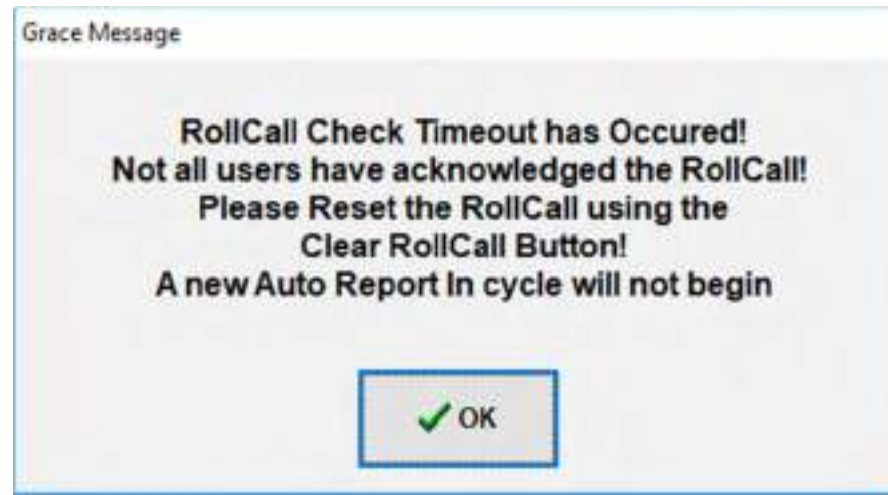
- Once a Report-In check has failed, the Auto Roll Call will begin automatically if the Roll Call start method is set to Automatic
- Otherwise the above message will appear
- Selecting Yes will start the Auto Roll Call
- Selecting No will reset the Report-In timer to the Report-In time value and begin 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 worker worn device
- Each worker worn device silently recognizes the Auto Roll Call signal, goes into audible alarm and automatically responds with a received signal
- As each User acknowledges Roll Call, the Roll Call Ack will appear
- Auto Roll Call will be sent until all users have responded with an Acknowledge
- If all users do not respond within the Report-In 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 Report-In check time can start

Auto Roll Call Failure



- Should the Roll Call check fail, it either means the user(s) that have not responded are either unable to or are out of range
- In either case, an active check on that user(s) should be performed
- It may be desirable to perform an Call-Back if a Roll Call check fails
- Note once again that a new Report-In 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


View Location Information

Location Name
305BENDHILLROAD


Location Description :
GRACE INDUSTRIES BUSINESS ADDRESS

Location Address
305 BEND HILL RD
FREDONIA, PA 16148 USA



Manange Locators  Locators

Plot Locators To Maps  Maps

 DONE

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 ID values and Options set on the system**

System Information Dialog

System Information
Done

Incident Details

Incident Name: 30805MILLROAD_INC_8080004_H_115219AM

Incident Type: GLASS FIRE

Incident Commander: JO-MEON

Incident Start: 8/8/2014 11:52:19 AM

Incident Position: A0880

Incident SIRE: A

Incident Run Time: 0 Hours - 1 Minutes - 0 Seconds

Group Monitoring Status

■ Active
 Inactive
 Disabled

Unit	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used																
Not Used																
Aux ID 0	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used																
Aux ID 1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used																
Not Used																
Not Used																
Aux ID 2	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used																
Not Used																
Not Used																
Aux ID 3	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
System ID	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used																
Not Used																

User Statistics

Users Monitored: 1152

Active Users: 5

Alarm Count: 6

Online Users: 1

Configuration

Be Signal Time: 0 Hours - 0 Minutes

Active Key Hold Time: 0.5 Seconds

Clear Key Hold Time: 0.5 Seconds

Sort Priority: Mode 2 - Active Units before Off Units

Display Filter: CHARGE MESSAGES ONLY

PC Connect Timeout: 10 Seconds

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

Incident Log			
 ADD NOTE		 PREV ENTRY	 NEXT ENTRY
			 DONE
Date	Time	Log Entry	User Navigation
06/05/2014	11:02:30 AM	User STEVEN WALTERS with I.D. C9-06 Has the Unit in the Off Mode.	 TOP  PAGE UP  PAGEDOWN  BOTTOM
06/05/2014	11:02:30 AM	User STEVEN WALTERS with I.D. C9-06 Has Checked into the System.	
06/05/2014	11:02:45 AM	User HEATHER KLINE with I.D. C9-02 Has the a Unit with a Low Battery.	
06/05/2014	11:02:45 AM	User HEATHER KLINE with I.D. C9-02 Has the Unit in the Off Mode.	
06/05/2014	11:02:45 AM	User HEATHER KLINE with I.D. C9-02 Has Checked into the System.	
06/05/2014	11:02:55 AM	User PAUL CHAMNEY with I.D. C9-05 Has the Unit in the Off Mode.	
06/05/2014	11:02:55 AM	User PAUL CHAMNEY with I.D. C9-05 Has Checked into the System.	
06/05/2014	11:02:35 AM	User JOHN ALLEN with I.D. C0-05 Has the Unit in the Off Mode.	
06/05/2014	11:02:35 AM	User JOHN ALLEN with I.D. C0-05 Has Checked into the System.	
06/05/2014	11:02:35 AM	User EVAN BERNSTEIN with I.D. D0-10 Has the Unit in the Off Mode.	

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 worker worn device 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
- Grace messages received are also logged

The Radio Data Log

Radio Data Log

PREV ENTRY NEXT ENTRY DONE

Date	Time	Name <small>TPA33 ID/Transmitter</small>	Location <small>Description</small>	Status or Message String	User Navigation
03/04/2020	11:04:08 AM	MUAM STANBRO 10-00	(0000) Not Located No Location Detected		 PAGE UP BOTTOM
03/04/2020	11:04:01 AM	SEAN STANBRO 00-00	(0000) Not Located No Location Detected		
03/04/2020	11:03:01 AM	VINCENT PROLES 10-00	(0000) Not Located No Location Detected		
03/04/2020	11:03:38 AM	SEAN STANBRO 10-00	(0000) Not Located No Location Detected		
03/04/2020	11:03:35 AM	TOM ARDRE 00-00	(0000) Not Located No Location Detected		
03/04/2020	11:03:04 AM	Incident Started 00-00			

ABANDON CALL ROLL CALL REPORT IN


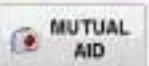
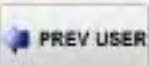

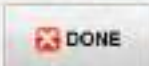
Editing User Information During an Incident



- User's 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 Name List - GP2020 NAV


     

Short Name	Rank	Position	SECTOR	Height	ID Number
TPASS ID		Shift	RESOURCE	Weight	Birth Date
JOHN KLINGER					
2041	REPORTER	Shift			
JOE FREEMAN					
2042	REPORTER	Shift			
JAN WINFIELD					
2043	REPORTER	Shift			
ART FOSWORTH					
2044	REPORTER	Shift			
SEAN STANEK					
2045	REPORTER	Shift			
TOM ARDUINI					
2046	REPORTER	Shift			
ANGUS MACAULAY					
2047	REPORTER	Shift			
ALAN CRUVER					
2048	REPORTER	Shift			
TINA MAYS					
2049	REPORTER	Shift			
DON KENNEDY					
2050	REPORTER	Shift			

User Navigation

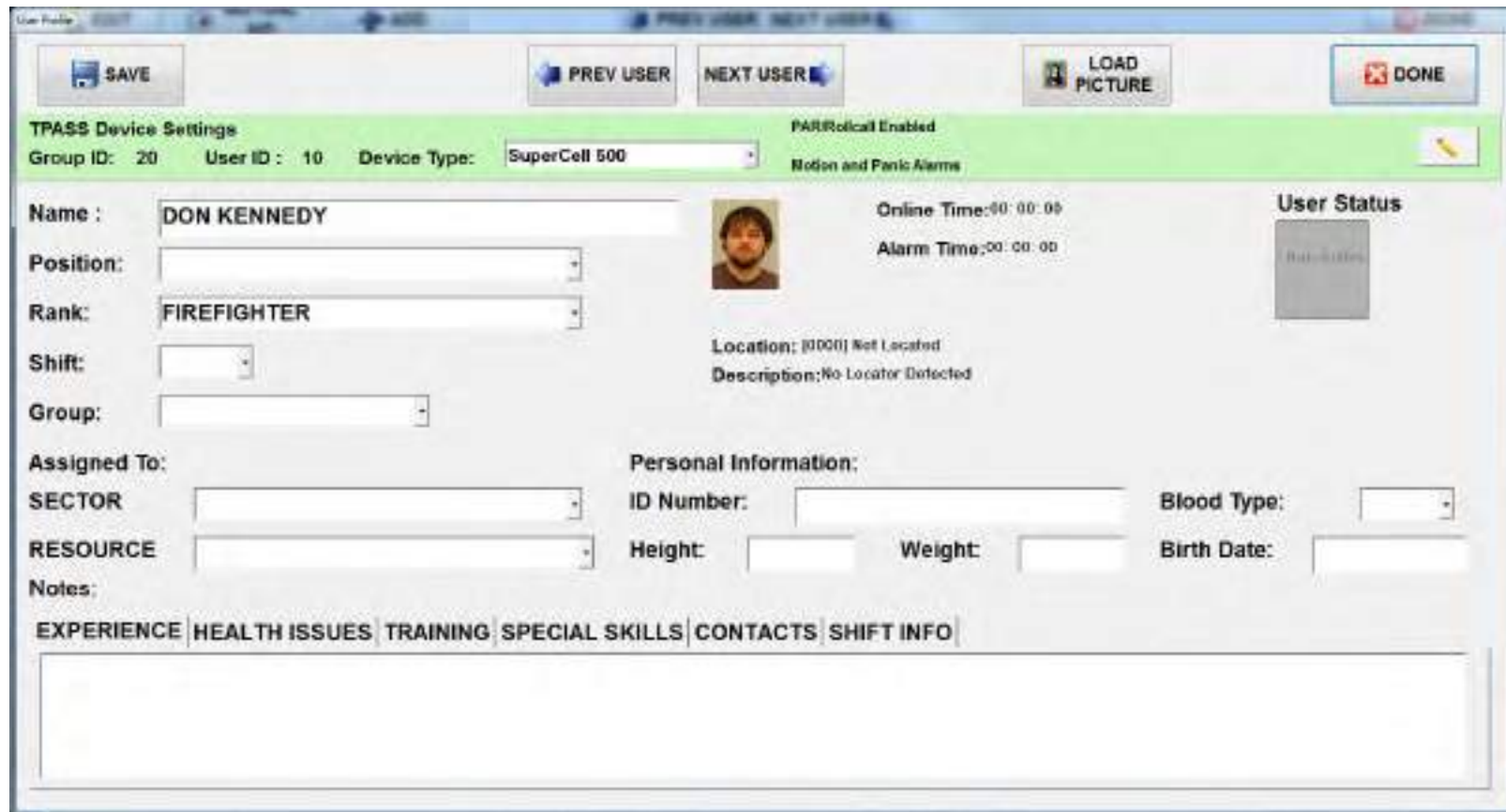
 TOP

 PAGE UP

 PAGEDOWN

 BOTTOM

User Profile Dialog



The screenshot shows a 'User Profile' dialog box with a title bar and standard window controls. At the top, there are buttons for 'SAVE', 'PREV USER', 'NEXT USER', 'LOAD PICTURE', and 'DONE'. Below these is a green header bar containing 'TPASS Device Settings' and 'PARRollcall Enabled'. The 'TPASS Device Settings' section includes 'Group ID: 20', 'User ID: 10', and 'Device Type: SuperCell 500'. The 'PARRollcall Enabled' section includes 'Motion and Panic Alarms'. The main area is divided into several sections: 'Name: DON KENNEDY', 'Position:', 'Rank: FIREFIGHTER', 'Shift:', 'Group:', 'Assigned To: SECTOR', 'RESOURCE', 'Notes:', 'Personal Information: ID Number:', 'Height:', 'Weight:', 'Blood Type:', 'Birth Date:', 'Online Time: 00:00:00', 'Alarm Time: 00:00:00', 'User Status', 'Location: [0000] Not Located', and 'Description: No Locator Detected'. There is a small profile picture of a man and a 'User Status' box. At the bottom, there are tabs for 'EXPERIENCE', 'HEALTH ISSUES', 'TRAINING', 'SPECIAL SKILLS', 'CONTACTS', and 'SHIFT INFO'. A large text area is at the very bottom.

SAVE PREV USER NEXT USER LOAD PICTURE DONE

TPASS Device Settings

Group ID: 20 User ID: 10 Device Type: SuperCell 500

PARRollcall Enabled

Motion and Panic Alarms

Name: DON KENNEDY

Position:

Rank: FIREFIGHTER

Shift:

Group:

Assigned To: SECTOR

RESOURCE

Notes:

Personal Information:

ID Number:

Height:

Weight:

Blood Type:

Birth Date:

Online Time: 00:00:00

Alarm Time: 00:00:00

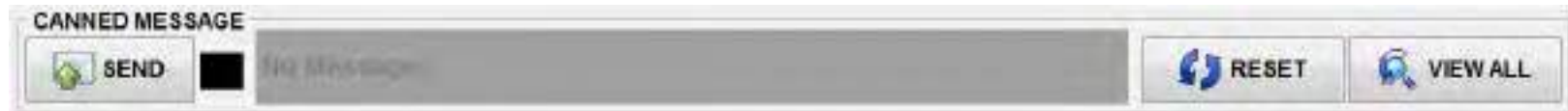
User Status

Location: [0000] Not Located

Description: No Locator Detected

EXPERIENCE HEALTH ISSUES TRAINING SPECIAL SKILLS CONTACTS SHIFT INFO

Sending & Receiving Grace Messages from SuperCELL and WorkForce WF2 Devices



- The Grace 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 Grace Message



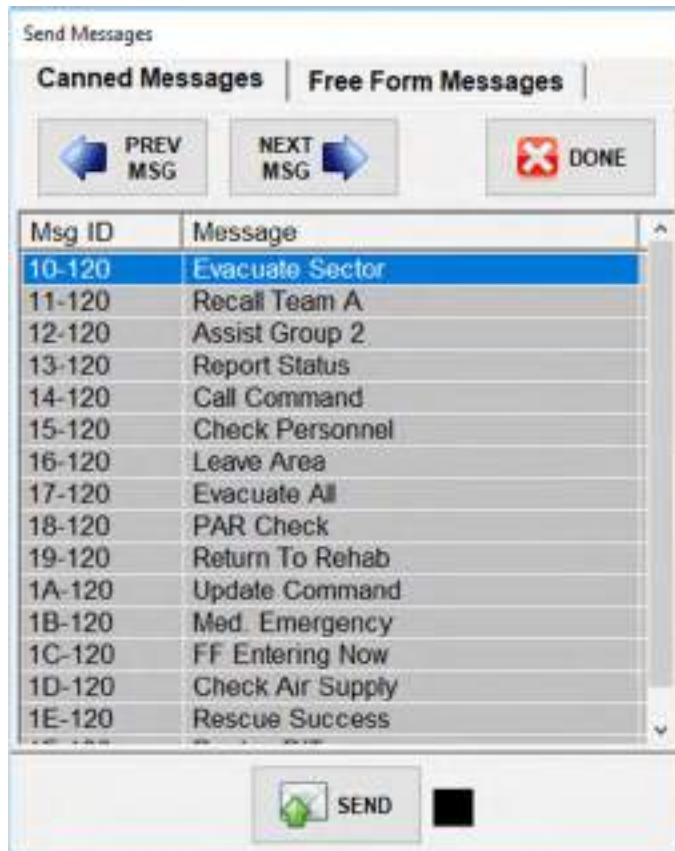
- When a Grace Message is received, the message area will “light up” with a green background and the Grace Message will be displayed along with a time and date stamp
- The red indicator square will flash on and off
- To reset this active message, press the Reset button
- The message box will return to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

Viewing All Received



- **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 Grace message box
- The send Grace message dialog will appear
- Select the Canned message tab.
- 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

Sending a Free Form Message

The screenshot shows a software window titled "Send Messages". It has two tabs: "Canned Messages" and "Free Form Messages", with the latter being selected. In the top right corner, there is a red "X" icon and the word "DONE". Below the tabs is a large text area labeled "Message". Underneath the message area is a "Destination" section with two radio buttons: "All" (which is selected) and "Specify". Below the radio buttons is a "Family" dropdown menu showing the value "10". At the bottom of the "Destination" section is a "Users" label and a large empty text box. At the very bottom of the window, there is a "SEND" button with a paper plane icon and a small black square indicator.

- To Send a Free form Message, press the Send Button from the Grace message box
- The send Grace message dialog will appear.
- Select the Free Form Tab.
- Key in your message.
- Select destination device IDs or select All.
- Press the send button.
- The indicator box will flash red indicating the message has been sent
- 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

Grace Industries Grace Watch

GRACE INDUSTRIES, INC.
LOW VOLTAGE SAFETY

GRACE-WATCH®
Emergency Signaling and Automated Personnel Accountability



Incident Information (All Values Auto Filled)

Incident Name	Incident #	Incident Date and Time
GRACE INDUSTRIES_INC_03042020_115215AM	188	03/04/2020 11:52:15 AM

Incident Data

Select Incident Type	Select Position	Shift
NORMAL OPERATION	ENGINEERING	

Box Alarm	Commander	Load Run Card
2204	CAMPMAN	


Incident Location


Location Files : GRACE INDUSTRIES


Number	Prefix	Street	Suffix
305		BEND HILL	RD


City	State	Zip Code	Country
FREDONIA	PA	16148	USA


Version 2.05 ©180 Patent Protected US 7,530,080

 Configure

 Show Utilities

 Return To Incident

 Stop Incident

 Exit

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 Grace-Watch Incident Viewer program
- The Incident number will be automatically incremented for the next incident

Cancelling the 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 Grace-Watch Software
- Select the Incident Viewer Icon and double-click to start the program

Incident Viewer Screen

Grace Industries Grace-Watch Incident Viewer

VIEW USERS VIEW INCIDENT LOG VIEW DATA LOG REPLAY INCIDENT VIEW SYSTEM INFO

Grace Industries **GRACE-WATCH®** Incident Viewer
Version 3.05.0100 Patent Protected US 7,538,666

Internet Status 

Incident Information

Incident Name	Incident #	Incident Date and Time
GRACE INDUSTRIES_INC_03042020_115122AM	185	03/04/2020 11:51:22 AM




Incident Data

Incident Type	Incident Position	Shift (Optional)
NORMAL OPERATION	ENGINEERING	
Box Alarm	Incident Commander (Optional)	Load Run Card (Optional)
2204	CAMPMAN	

Incident Location (Optional)

Location File : GRACE INDUSTRIES

Number	Prefix	Street	Suffix
305		BEND HILL	RD
City	State	Zip Code	Country
FREDONIA	PA	16148	USA

 Open Incident  Print  Exit

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 Grace-Watch 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

Active Incident Users

EDIT PREVIOUS USER NEXT USER DONE

User Name	Position	DISPATCH	Height	ID Number
TPASS ID	Rank	RESOURCE	Weight	Birth Date
BILLY PAVICH		ARRIVING		
50-12	SAFETY OFFICER	Shift: A	2013	
JOHN DAVIS		ARRIVING	5'8"	15060417
50-01	ENGINE 1 A	Shift: A	195	8/26/54
PAUL DELUGH		ARRIVING		
50-02	ENGINE 1 A	Shift: A	ENGINE 2	
DEAN MARC		ARRIVING		
50-03	FIRE FIGHTER	Shift: A	ENGINE 2	
WILLIE HARRELL		ARRIVING		
50-05	FIRE FIGHTER	Shift: A	LADDER 22	
BOB DOUGHNY		ARRIVING		
50-14	ENGINE 1 A	Shift: A	LADDER 22	
LARRY JOHNSON		ARRIVING		
50-16	FIRE FIGHTER	Shift: A	ENGINE 2	
50-22		ARRIVING		
50-22	Shift:			

User Navigation

TOP PAGE UP PAGEDOWN BOTTOM

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 Grace-Watch System during the incident will be saved in the incident file**
- **Users are sorted by Group and ID 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

User Profile

TPASS Device Settings Group ID: CC User ID : 02 PAR/Recall Enabled

PREV USER NEXT USER DONE

Name : ARTHUR MCKENZIE  Online Time: 00:00:00

Position: UNIT2 LEAD

Rank: LIEUTENANT Alarm Time: 00:00:00

Shift: A

Assigned To: Personal Information:

SECTOR BASEMENT ID Number: 100000002 Blood Type: AB

RESOURCE ENGINE 2 Height: 5'10 Weight: 175 Birth Date: 12/12/0960

Notes:

EXPERIENCE HEALTH ISSUES TRAINING SPECIAL SKILLS CONTACTS SHIFT INFO

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



Date	Time	Log Entry	GPS Data	User Navigation
9/09/2014	11:02:15 AM	Incident Started Name: 3855NDHILL ROAD WC 0600014 H121620M		TOP
9/09/2014	11:02:16 AM	Incident Details Type: GRASS FIRE Commander: JOHNSON		PAGE UP
9/09/2014	11:02:17 AM	Internet Status: Connected		
9/09/2014	11:02:18 AM	User DAVID ENGLES with I.D. 00-05 Has Checked into the System.		
9/09/2014	11:02:19 AM	User DAVID ENGLES with I.D. 00-05 Has the Unit in the Off Mode.		
9/09/2014	11:02:23 AM	User VINCENT PERCE with I.D. 00-05 Has Checked into the System.		
9/09/2014	11:02:23 AM	User VINCENT PERCE with I.D. 00-05 Has the Unit in the On Mode.		
9/09/2014	11:02:23 AM	User VINCENT PERCE with I.D. 00-05 is Now in Location 5785:Office Seat2 - Office Seat2		PAGE DOWN
9/09/2014	11:02:35 AM	User SVEN BERNSTEN with I.D. 00-18 Has Checked into the System.		
9/09/2014	11:02:35 AM	User SVEN BERNSTEN with I.D. 00-18 Has the Unit in the Off Mode.		BOTTOM

* Double click Location or GPS data to view the mapping if available

Viewing the Radio Data Log

Radio Dialog

PREV ENTRY NEXT ENTRY DONE

Date	Time	Name TRASS ID	Location Description	Status or Current Message String	User Navigation
06/06/2014	03:39:51 PM	JOHN ALLEN 03-00	[000] Not Located No Locator Detected		TOP
06/06/2014	03:40:07 PM	PAUL CHANEY 03-10	[000] Not Located No Locator Detected		PAGE UP
06/06/2014	03:40:08 PM	HEATHEN KLINE 03-12	[000] Not Located No Locator Detected		
06/06/2014	03:40:11 PM	STEVEN WALTERS 03-06	[000] Not Located No Locator Detected		
06/06/2014	03:40:51 PM	DAVID ENGLES 03-06	[000] Not Located No Locator Detected		
06/06/2014	03:40:55 PM	03-05	[000] Not Located No Locator Detected		
06/06/2014	03:41:25 PM	BRET MOGNEY 25-05	[000] Not Located No Locator Detected		
06/06/2014	03:42:59 PM	OVEN BERNSTEIN 04-00	[000] Not Located No Locator Detected		PAGE DOWN
06/06/2014	03:55:29 PM	VINCENT PERCE 04-00	[000] Not Located No Locator Detected		
06/06/2014	03:55:59 PM	VINCENT PERCE 04-00	[000] Not Located No Locator Detected		BOTTOM

EWAC ROLL CALL PAR

Viewing the System Information

The screenshot displays a software interface for viewing system information. It is divided into four main sections: Incident Details, User Statistics, Configuration, and Group Monitoring Status.

Incident Details:

- Incident Name: 308BENCHILLROAD_INC_00002014_033922PM
- Incident Type: GRASS FIRE
- Incident Commander: JOHNSON
- Incident Start: 00/05/2014 03:39:25 PM
- Incident Position: ADMIN
- Incident Shift: A
- Incident Run Time: 0 Hours : 18 Minutes : 22 Seconds

User Statistics:

- Users Monitored: 1702
- Active Users: 10
- Alarm Counts: 1
- Online Users: 1

Configuration:

- No Signal Time: 0 Hours 5 Minutes
- Action Key Hold Time: 0.0 Seconds
- Clear Key Hold Time: 0.0 Seconds
- Sort Priority: Mode 2 - Active Units before Off Units
- Datalog Filter: CHANGE MESSAGES ONLY
- PC Comm Timeout: 10 Seconds

Group Monitoring Status:

Legend: ■ Active ■ Inactive ■ Disabled

Unit ID	Status	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used	00																
Not Used	10																
Aux ID 0	20	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used	30																
Aux ID 1	40	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used	50																
Not Used	60																
Not Used	70																
Aux ID 2	80	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used	90																
Not Used	A0																
Not Used	B0																
Aux ID 3	C0	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
System ID	D0	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Not Used	E0																
Not Used	F0																

Grace-Watch with Location Utilizing Locator Beacon LT100-H

(Works with Grace worker-worn man-down devices and Grace-Watch Monitoring Systems)



The Locator Beacon is a compact signaling device that transmits a location code to a worker worn device when the user is in range of the Beacon. Once updated with a location code from the Locator Beacon, all worker worn device 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 user wearing a worker worn device, the device 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 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!**

FCC Statements

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Industry Canada Statements

This Class A digital apparatus complies with Canadian ICES-003.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada. (select the class for your device)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARRANTY

Grace Industries, Incorporated warrants your Product to be free from defects in workmanship and materials for a period of one year from the date of purchase. This warranty is valid only when the returned Product is accompanied by a sales slip or other proof of purchase that states the date and location of purchase. Grace Industries, Inc. will not repair or replace any merchandise that has been damaged because of accident, misuse or abuse of the Product while in the possession or control of the consumer. This warranty is void if any attempt to repair or replace parts was made or attempted by other than qualified Grace Industries, Inc. personnel. This warranty is void if any of the sealed compartments are opened or tampered with. Send all returned merchandise prepaid and accompanied by proof of purchase to: Grace Industries, Inc., Repair Division, 305 Bend Hill Road, Fredonia, PA 16124. Grace Industries, Inc. shall not be liable for any direct, incidental or consequential loss or damage arising out of the failure of the device to operate.

The sole and exclusive remedy under all guarantees or warranties, expressed or implied, is strictly limited to repair or replacement as herein provided. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING ONE (1) YEAR FROM THE DATE OF PURCHASE. The warranty and liability set forth in the prior paragraphs are in lieu of all other warranties, expressed or implied, in law or in fact, including implied warranties of merchantability and fitness for a particular purpose. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

NOTE: The information contained in this booklet is believed to be accurate and reliable. Grace Industries, Inc. provides this information as a guide only.

305 Bend Hill Road
Fredonia, PA 16124 U.S.A.
724-962-9231
www.graceindustries.com

Grace-Watch® Monitor

MX900-H

Installation and User's Information

Only To Be Removed By End User

NOTE: Grace-Watch Software MUST be installed before connecting to PC



**MADE IN
USA**

**GRACE
INDUSTRIES, INC.**
LONG WORKER SAFETY

Grace-Watch® Monitor Installation and User Information



Antenna can fold and rotate to aid in orienting in vertical position.

Grace-Watch® Monitor attached to laptop computer



Transmit/Receive Indicator LED

USB Connector

Shielded Cable with USB Connector (6 feet)

NOTE: Grace-Watch Software MUST be installed before connecting to PC

Grace-Watch® Monitor, Micro-Transceiver with USB, is a compact radio transceiver designed as part of the Grace-Watch® Lone Worker Emergency Signaling and Automated Accountability Systems.

Grace-Watch® Monitor Package includes Grace-Watch® Monitor MX900-H-GW and Grace-Watch® Monitor Software package. Grace-Watch® Monitor software requires a user supplied Windows 7/10 computer with available USB port. Grace-Watch® Monitor is compatible with Grace Industries' Radio-H radio platform telemetry devices.

The Grace-Watch® Monitor sends and receives data transmissions from Grace Industries Lone Worker Devices. The Grace-Watch® Monitor is powered from its USB connection and is suitable for mounting on the back of a laptop display screen or on a window.

Grace-Watch® Monitor comes with 6 feet of shielded cable for ease of mounting.

With proper attention given to the following important items, optimum performance can be achieved for most applications:

1. For Installation, the Grace-Watch® Monitor may be mounted on the back of a laptop display screen where the antenna has a clear, unobstructed path to the outside environment. Another typical location for the Grace-Watch® Monitor would be on a window with an unobstructed path to the outside environment.

Always mount MX900H in a vertical orientation, with antenna pointing up.

Note: Antenna can be fold and rotate to aid in orienting in the vertical position.

2. Grace-Watch® Monitor should be located as far away as possible from other radio equipment antennas. This

includes cell phone boosters, Wi-Fi, and other 2-way radio equipment antennas. It is also recommended to keep the Grace-Watch® Monitor antenna a minimum of six inches away from metal surfaces.

Grace-Watch® Monitor Specifications

Description: Grace-Watch® Monitor is a compact radio transceiver designed for use as part of the Grace-Watch® Lone Worker Emergency Signaling and Automated Accountability System.

Model: MX900-H-GW

Case: Stainless steel

Power: Powered by USB connection

Cable: 6 feet shielded cable with USB connection

Size: 2.0 x 3.0 x .75 inches

Antenna: 5.75 inches long when extended. 1.25 x 5 inches when folded.

Compatibility: Radio-H Radio Platform ONLY - Grace Industries SuperCELL® SC500-SM, SC500-LW, SC500-CS, SuperPASS®5X, TPASS®5, TPASS®3, and TPASS® Micro Repeater

Frequency Range: 902-928 MHz FHSS (frequency hopping spread spectrum) Non-Licensed ISM

Data Output: Serial USB 2.0, 38400-bps ASCII encoded numeric data

Certifications

FCC ID: J5MXHEM -- Meets FCC Part 15

IC: 5916A-MXHEM -- Complies with Canadian ICES-003