Elpas Wi-Fi Man Down Tag

P/N: 5-MDT00433-0

User Guide

0Introduction

This User Guide provides basic instructions for the successful usage of the Elpas Wi-Fi Man Down Tag.

⚠ **CAUTION!** Reasonable effort was made to ensure that the specifications and other information in this guide are accurate and complete at the time of its publication. Nonetheless, all information contained in this document is subject to change at any time without prior notice. Any modifications to this equipment without prior written consent of CenTrak Inc. will void all warranties including the pertinent regulatory certifications and as such revoke your authority to operate this product. Furthermore, unauthorized modifications may also result in damage to this device and may cause a safety hazard to the users.

Product Description

The Elpas Wi-Fi Man Down Tag is a personal duress button device with optional pull cord and fall detection capabilities and is designed for real-time monitoring and tracking of staff members and visitors. This tag is designed for both seniors in assisted living facilities or workplace staff members that may be subject to attack or injury in high-risk environments.

(*Actual products may vary from photo*)

Alerts may be triggered either by squeezing the two side buttons. When worn on a belt, a short rip cord may be attached to a belt loop so that an alert is transmitted when the cord is pulled.

Note: Users can also wear the Elpas Wi-Fi Man Down Tag as a pendant using a lanyard. If you choose to do so, make sure you use a lanyard for which, the force required to unlatch the tether switch is less than the force required to open the clasp.

The pull mechanism is particularly useful for seniors with arthritis who have difficulties pressing buttons.

The Elpas Wi-Fi Man Down tag detects falls and alarms when tilted horizontally. To prevent false alarms, the device indicates a pre-alarm by beeping and vibrating giving the wearer a chance to cancel the alarm before it is transmitted by pressing on the front cancel button.

Button press or pull cord (pull cord is present only in Fall detect version) should be used as the primary means of calling for help even after a fall. The fall detection is meant to alert in the event that the victim falls unconscious and may not trigger if not sufficiently horizontal.

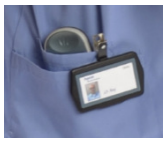
Elpas Man Down Tags may be monitored by Elpas local controllers and/or by CenTrak Omni Software. Elpas Low Frequency Beacons or IR readers may be used to provide room level indoor location.

Note: Users who do not require it, can disable the IR functionality to prolong battery life. See page 3.

Outputs on all Elpas network devices can be used to drive sirens, strobe lights or PA systems. Alerts may be sent to various handheld devices such as DECT handsets using Omni DECT interfaces or to IOS or Android smartphones using the Omni Go app.

Calls may be cleared by exposing the Elpas Wi-Fi Man Down Tag to a responder's handheld LF beacon requiring that staff arrive at the location of the caller.

Warning: When IR location is needed, placing the Elpas Wi-Fi Man Down Tag in a pocket or covered area will significantly reduce the IR range of the device. The Elpas Wi-Fi Man Down Tag should only be worn on the outside of the user's clothing.



Emergency Call Button Events

Factory Default: B1=0 (Button Up)

Activation/Emergency Call: Pressing both buttons, simultaneously, for at least 1 second or pulling the cord is - B1=1 (Button Down) and last LF location, 6 RF messages, 3 for B1 Down and 3 for last LF, are transmitted (each @ 4ms in duration), 312.5ms apart.

Upon button release, B1=0 (Button Up), 3 RF messages are transmitted (each @ 4ms in duration), 312.5ms apart.

Fall Detection - The Elpas Wi-Fi Man Down tag detects a fall when tilted. The device will report when it goes from vertical to horizontal or vice versa and remains in that position for ten seconds or longer.

Alert Testing (Elpas Shield Test event)**:** Pressing either button alone, B1=1 (Button Down), 3 RF messages are transmitted (each @ 4ms in duration), 312.5ms apart.

Upon button release, B1=0 (Button Up) 3 RF messages are transmitted (each @ 4ms in duration), 312.5ms apart.

Product Specifications:	
RTLS Technologies	Wi-Fi 2.4GHz / UHF 433.92MHz / LF 125KHz; IR (800nm)
Maximum Power	RF 10mW @ 433MHz / LF 65dBµA/m @ 10m @ 125KHz
Maximum Tx Power	10dBm @ 433MHz
	Programmable via Mobile Provisioning App
Wi-Fi (Motion Stationary)	Default
Recommendation:	Use low value for DTIM. Recommended value = 1
	Use low value for beacon interval time – recommended value 100ms or less
	Factory Programmed
RF (Motion/Stationary)	Default: Supervision messages every 30secs /60secs
IR (Motion/Stationary)	Default: Supervision messages every 5secs /60secs
RF under LF	Default: 6 RF transmissions (each transmission @ 4ms in duration), 312.5ms apart
IR under LF	Does not transmit
Event Messages Button Press/Release Low Battery	3 RF transmissions (each transmission @4ms in duration), 312.5ms apart
Supervised Events	Button Press Release, LF Chokepoint and tamper, Low Voltage Motion
Power Source	3V/1000 mAh battery: Sony CR2477 or Panasonic CR2477
Battery Life	12 months under normal working assumptions
LED Status Indicator	Button Press/Release | Motion/Stationary | Entering/Exiting LF Field | Low Battery
Badge ID	Unique, factory-programmed ID
Construction	Nylon Plastic (IP65)
Dimensions (H x W x D)	8.3 x 4.4 x 1.7 cm (3.3 x 1.7 x 0.7 inches)
Weight	44.4 grams (1.56 ounces)
Placement	Belt or Lanyard
Operating Environment	Temp: -30°C to 60°C (-22°F to 140°F) Humidity: 95% non-condensing **WARNING:** *The battery life decreases if the tag is exposed to temperatures* above 50°C
Management Software	Omni V5.2 or higher
Regulatory	IC, FCC, and CE compliant
Warranty	1 year limited (excluding battery)
Pre-fall Alarm	Buzzer and vibration

Product offerings and specifications are subject to change without notice.

Ordering Information

Part Number:	**Description:**
5-MDT00433-0	Elpas Man Down Tag

Accessories

Part Number:	**Description**
5-LW009800-0	Elpas Shield belt Clip (set of 5)
5-LW009700-0	Elpas Shield Pull Cord (set of 5)
5-LW009900	Elpas Shield Canvas Case

Provisioning

Given the two-way nature of the Wi-Fi channel, the transmission characteristics of the tag will be configurable using a mobile app called the Man Down Provisioning App (*see Provisioning App details section of this document*).

The following is a list of provisioned options:

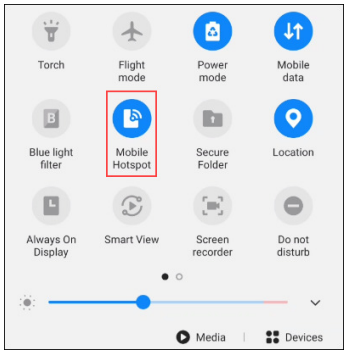
Wi-Fi Encryption Type				
Wi-Fi Password		String		Hidden
Network Priority				When multiple networks are defined and visible by the tag, the tag will join the priority network
Omni Server Address		String		IP Address or Host Name of Omni Server
Transmission Characteristics				
Motion Supervision	Int	Seconds	300	Interval between Wi-Fi supervision messages when tag is in motion
Motionless Supervision	Int	Seconds	300	Interval between Wi-Fi supervision messages when tag is stationary
Report Entry to LF	Boolean		FALSE	If true, tag will report LF event upon each entry to LF Field
Report Departure from LF			FALSE	If true, tag will report LF event upon transitions between motion and motionless
Report Motion Events			FALSE	If true, tag will report LF event upon transitions between motion and motionless
Front Button Press	Int		1	1 - None - Do not report 2 - Down Only - Report only button down 3 - Both - Report both down and up
Report Tilt	Boolean		FALSE	
Report Fall	Boolean		FALSE	**NOTE**: Fall detection can be turned off using the front button
Report Test	Boolean		FALSE	Single side push
Transmit IR	Boolean		FALSE	
Transmit RF	Boolean		FALSE	
Transmit Wi-Fi	Boolean		FALSE	
Use Vibration Feedback	Boolean		FALSE	Vibrate on pre-fall alarm

Wi-Fi Provisioning App

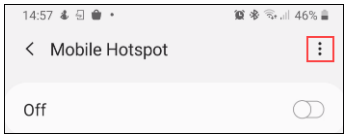
The Wi-Fi Provisioning App is available for Android and iOS.

To begin using the app:

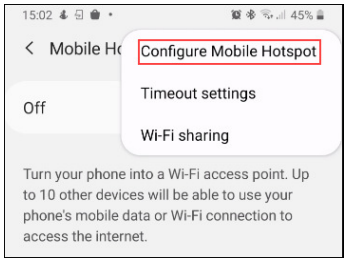
1. Configure your mobile phone to be a hotspot.
2. Navigate to your mobile phone's Hotspot settings.



3. Click the ellipses in the top right corner.



4. Click **Configure Mobile Hotspot**.

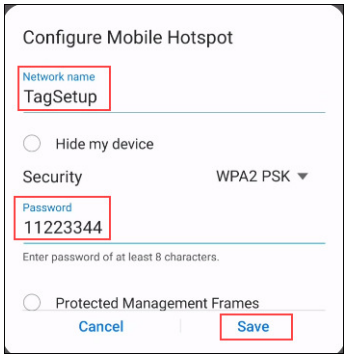


5. Set the Network Name and Password:

   Network Name: TagSetup.

   Password: 11223344.

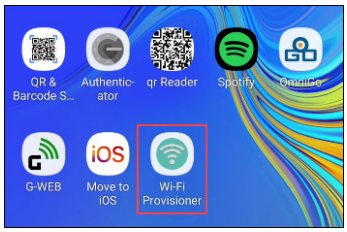
6. Click Save.



7. To connect the device to the handset take the Elpas tag and press any of the side buttons.

   Hold it for 10 seconds.

8. Open the Wi-Fi Provisioner App.



9. **Connected to**: indicates the devices is not connected yet .

10. Once it connects the screen will show the device name and the firmware version.
11. The entire configuration is sent to the device. There is no option to read information from the device, information that was displayed on the device is overwritten each time the configuration is written.

    There are two options available:

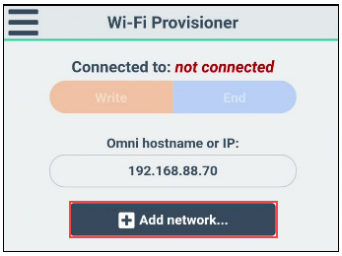
    - **Write** – save all the configured fields to the device, overwrite all the current settings for the device.
    - **End** – test the connection but no other action is required, the same functionality as Cancel, disconnect the device.

Configuration

NOTE: It is not necessary to be connected to the Wi-Fi to do the configuration.

The configuration of the device is as follows:

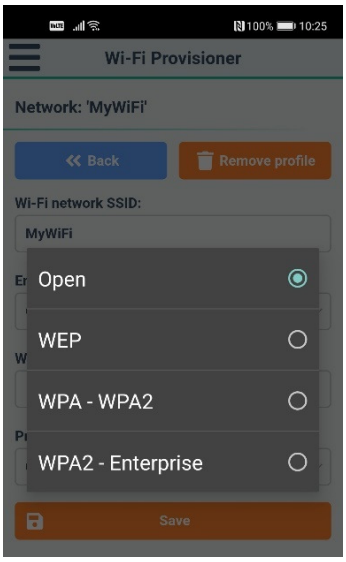
1. Omni hostname or IP indicates the IP address where the Omni server is based.
2. **Add network**, will only be active if there are *no* Wi-Fi networks available.
   NOTE: There is a limit of only one Wi-Fi network.



   NOTE: Currently, only one Wi-Fi network is supported.

   a. To set up a network from this screen, click **Add network.**
   b. **<< Back** will return to the previous screen.
   c. Provide the **Wi-Fi network SSID.**
   d. If **Encryption type** is not **Open** provide the **Wi-Fi network password.**

i. The **Encryption type** options that are provided are:



3. **Remove** Profile will remove the Wi-Fi information.

4. Click **Save**, the information is saved and returns to the main screen.

5. Enable **Motion Supervision** by selecting the toggle switch**.**

   Motion Supervision intervals can be set using the dropdown arrows.
   The device, while being in motion, sends a supervision message to Omni at the intervals selected.

   As per the example below a message will be sent every 5 minutes:

   a. The device turns on.
   b. Connects to the Wi-Fi network.
   c. Submits the message.
   d. Returns to sleep mode, turning the Wi-Fi off and preserving battery life.

      NOTE: The minimal supervision value is 5 minutes and is only valid for the Wi-Fi channel.

      For the RF channel the value is factory set to be 10 seconds. The IR channel is NOT used for motion supervisions!

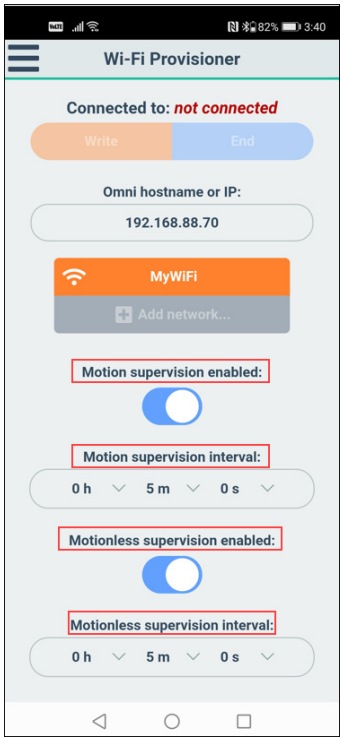
6. Enable **Motionless Supervision** by selecting the toggle switch**.**

   Motionless Supervision intervals can be set using the dropdown arrows.
   The device, *while not in motion/stationary*, sends a supervision message to Omni at the intervals selected.

   As per the example below a message will be sent every 5 minutes:

   a. The device turns on.
   b. Connects to the Wi-Fi network.
   c. Submits the message.
   d. Returns to sleep mode, turning the Wi-Fi off and preserving battery life.

      NOTE: The minimal supervision value is 5 minutes and is valid only for the Wi-Fi channel.
      For RF and IR channels the value is factory set at 60 seconds.



7. **Report entry to LF:**

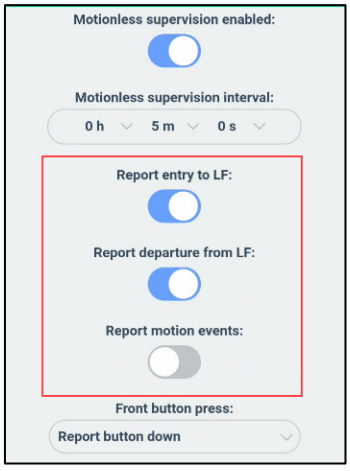
   If active, when the device moves into an area with a LF beacon, a message is sent with the LF ID to Omni.

8. **Report departure from LF:**

   If active, when the device moves out of an area with a LF beacon, a message is sent with the LF ID to Omni.

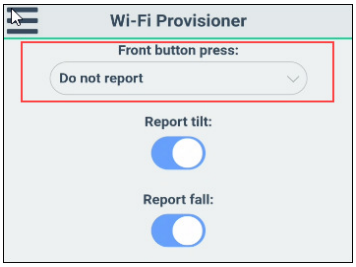
9. **Report Motion Events**:

   A message is sent when the device starts or stops moving. By default this option is disabled.



10. **Front button press:**

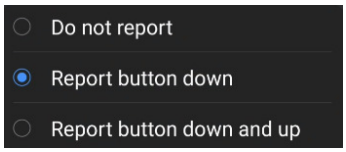
    The device has a front button that can be pressed.



There are three options to select from:

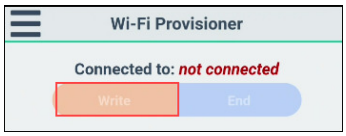
- Do not report – do not send a message

- Report button down (default) – when the button is pressed a message is sent
- Report button down and up – in both cases, up and down, a message is sent



11. **Report tilt:**
Will report when the device goes from vertical to horizontal or vice versa and remains in that position for ten seconds or longer.
12. **Report test (single side press):**
The device has two side buttons. When this option is activated, if either of the buttons is pressed, a supervision message that tests the connectivity between Omni and the Wi-Fi device is sent.
13. **Transmit IR:, Transmit RF:, Transmit Wi-Fi:**
Whichever of these options are activated, the device will use to transmit the messages. If all three are activated all three will be used. If the device will not be required for a time and needs to be put into a deep sleep, disable all three options and no data will be transmitted until the device is re-activated. A warning will be issued and needs to be confirmed. The device will need to be reconfigured when activated again.
NOTE: This option should only be used when the device will not be used for a time for example, going on vacation.
14. **Vibration feedback:**
Produces a vibration on the pre-fall alarm. This option is off by default as it is a battery consuming feature.
15. **Reset defaults:**

    Will reset all the settings to their default status.
16. Once the configuration is complete:
    a. Return to the main screen.
    b. Connect the device if it is not connected.
    c. Select **Write** to save the configuration.



    A confirmation message will confirm that the configuration was successful stored on your device.
    d. The device will automatically be disconnected.

Initial Activation & Software Enrollment

The Elpas Wi-Fi Man Down Tag is shipped from the factory in **Sleep Mode** to conserve battery power during transit.

1. Prior to initial usage, remove the Activation Label and simultaneously press, both of the emergency call push buttons for at least 7 seconds.

This action Awakens Elpas Wi-Fi Man Down Tag from Sleep Mode and also enrolls its unique factory installed **ID Number** (a six-digital hexadecimal value) into the Host RTLS Application.

If the Enrollment process is successful, the Red LED Status Indicator of the transmitter lights up for 3 seconds.

Safety Issues

It is the responsibility of the system installer to ensure that the appropriate staff members are suitably trained in the usage and maintenance of Elpas Wi-Fi Man Down Tag.

Additionally, **Supervisory Alerts** should be configured in the Host RTLS Application to notify staff members that Elpas Wi-Fi Man Down Tag is:

- In a low battery condition, or
- Not properly transmitting location and status data.

Note: The above configured **Supervisory Alerts** should be triggered periodically to ensure system integrity.

Alert Testing

When you press either the left or the right emergency call push-button individually, you trigger Elpas Wi-Fi Man Down Tag to emit a Test Alert Message for the host RTLS application to confirm that the unit is functioning properly.

Battery Replacement

- **CAUTION!** Risk of explosion if battery is replaced an in type. Dispose of used batteries according to the manufacturer's instructions.

⚠ **CAUTION!** Before you remove the battery, press any button for 4 seconds to discharge any residual voltage from capacitors.

1. Temporarily suspend usage of Elpas Wi-Fi Man Down Tag in the host RTLS application.
2. Place Elpas Wi-Fi Man Down Tag on its right side. Remove the 2 screws that hold the battery cover to the body.

3. **First time replacement:** Utilize the pull tab (find it with the **Bat▼** mark engraved on the back) to slide the battery out of the Transmitter.

   Future replacements: In the absence of the pull tab, remove the cover from the other side, and use a plastic instrument to slide the battery out.

   Dispose of the used battery in accordance with local regulations.

⚠ **CAUTION!** After removing the battery please wait at least 30 seconds before installing the replacement battery so as to not cause damage to the tag or to negatively affect the tag's operational performance.

4. Slide the new battery into the transmitter. Recommended battery: CR2450 lithium battery.

   ⚠ **IMPORTANT!** Ensure that the positive (+) side of the battery faces up.

5. Close the side-cover(s) such that the screw holes are correctly aligned. Tighten the 2 screws snugly into place. Do not over-tighten as this may strip the case's threads.
6. Reactivate the Transmitter in the Host RTLS Application.

Disabling/Enabling IR

By default, IR functionality is on.

1. Press button B1 (squeeze both side buttons) for five seconds. The LED Flashes five times.
   - A single flash means IR is now on.
   - A double flash means IR is now off.
2. While the LED flashes, squeeze the side buttons again, three short presses, to change from the current state. The LED flashes again, as before, to indicate the new state.

Note: If you do not press three times in five seconds (while the LED flashes), the tag remains in the original state.

RF Transmissions in LF Fields

For Moving Transmitter

LF Response Time: Onboard LF receiver polls every 250ms to check if the Transmitter is in an LF zone

Transmission Rate: 3 RF event transmissions (each transmission about 2ms in duration), at 0.4 second intervals.
If the Transmitter stays in an LF zone, then repeated at 2 seconds intervals.

Transmitted Message Type: RF Data Message includes ID code of LF Beacon. Motion bit, M=1.

For Motionless Transmitters

LF Response Time: Onboard LF receiver polls every 250ms to check if the transmitter is in an LF zone

Transmission Rate: 3 RF supervision transmissions (each transmission about 2ms in duration), 0.4 seconds apart:
If the Transmitter stays in a LF zone for more than 10 minutes, then repeated at 15 second intervals.

Transmitted Message Type: RF Data Message includes ID code of LF Beacon. Motion bit, M=0

Cleaning & Disinfection Procedures

Use an appropriate antibacterial disinfectant such as Dispatch® Hospital Cleaner Disinfectant with Bleach from Caltech Industries (http://www.caltechind.com) to clean the Lone Worker Transmitter.

Since 'Cleaning Procedures' may vary according to facility guidelines, thus the procedures given below are for illustrative purposes only:

Option 1 – Using Dispatch Disinfectant Spray

1. Lightly wet a disposable towel with Dispatch spray.
   Do not saturate the towel
2. Wipe the outer surfaces of the sensor
3. Wipe the sensor with a dry disposable towel
4. Allow the sensor to air dry
5. Return the clean sensor to inventory or usage
6. Dispose of used towels per facility policies

Option 2 – Using Dispatch Disinfectant Towels

1. Open a new Dispatch pre-moistened towel
2. Wipe the outer surfaces of the sensor
3. Wipe the sensor with a dry disposable towel
4. Allow the sensor to air dry
5. Return the clean sensor to inventory or usage
6. Dispose of used towels per facility policies

Pull Switch Cleaning: Frequent use of the pull switch may result in a buildup of dust on the mechanism. Dust buildup causes friction which requires added force to pull and restore the switch. Should this occur, clean the switch using a compressed air duster. Gently spray on the pull switch, and use a brush (often included with the canister).

Alert Event Configuration in Omni

There are nine alert events relevant to the Lone Worker tag.

- **Lone Worker Fall Alarm** (Fall Detect version only)**:** When the tag tilts and the pre-alert event is not cancelled within 15 seconds, the tag transmits the Lone Worker Fall alert which indicates that the user has fallen and unable to function.
- **Lone Worker Front Button Press:** In regular version, B2 down. In Fall Detect version, to cancel an alert event, the user can press the button in the front of the tag. To cancel a Pre Alarm event, the user can place the tag in the up-right position. If the tag is repositioned, it transmits the Cancel (cancel the pre-alert) event.
- **Lone Worker Panic:** When under duress, the user can press both of the side buttons, simultaneously, or pull the cord to transmit a Lone Worker Panic alert.
- **Lone Worker Pull Cord Restore:** When the user inserts the cord back into place, the tag transmits a cancellation for the pre-alert event.
- **Lone Worker Pre-Alert:** When the tag tilts, it transmits a Pre Alarm event. The pre-alert lasts for 15 seconds during which, the user can cancel it.

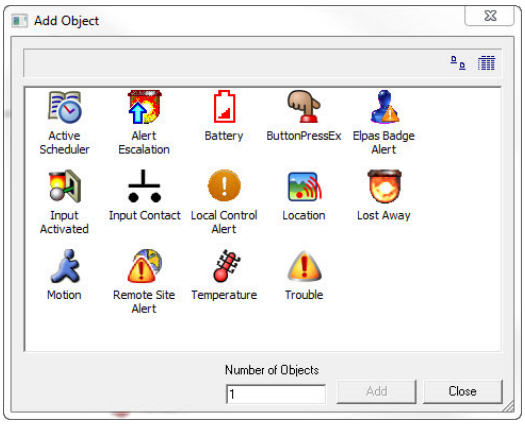
  Note that the Pre-Alarm and Fall event messages may be disabled (and re-enabled) by pressing the front button for approximately 10 seconds. The tag beeps when the Fall function is disabled/enabled.
- **Lone Worker Single Side Button:** To test the alerts, the user can press either of the side buttons to transmit a Lone Worker single-side button event.
- **Low Battery:** When the battery of the tag runs low, it transmits a low battery event.
- **Motion:** When the tag is in motion, it transmits a Motion event.
- **Stationary:** When the tag is stationary, it transmits a Stationary event.

Users can configure all or some of these alert events in one alert object, the Elpas Badge Alert object.

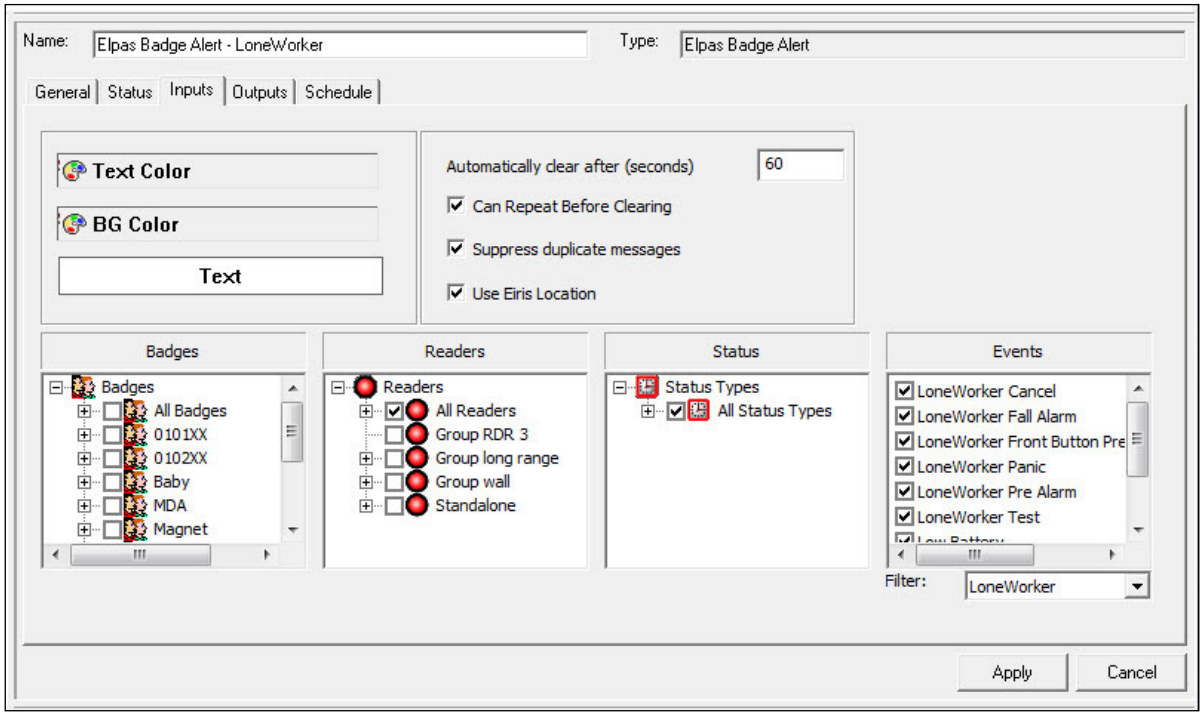
Note: This document includes only the Lone Worker Transmitter alert event specific instructions. For further information regarding alert configuration, see Eiris Configuration Guide, section 5.

To configure Lone Worker alerts:

1. In the EV2 setup mode, right-click the Alerts branch and select **Add by Type**. The alerts **Add Object** window opens.



2. Select **Elpas Badge Alert** and click **Add**. A new Elpas Badge Alert object is created and opens in its **General** tab.
3. In the **Name** field, enter the name you choose (one that includes Lone Worker is recommended since the object is also used for other badges).
4. Open the **Inputs** tab.
5. Under the **Events** pane, from the **Filter** drop-down list, select **Lone Worker**. The Lone Worker related events appear in the **Events** pane.
6. Select the check-boxes of the events for which you want the alerts.



Product Warranty

CenTrak Elpas Series. (Elpas or the Company), and its affiliates, warrants its products (hereinafter referred to as "the Product") to be free of defects in materials and workmanship under normal operating conditions and use for a period of one year from the date of shipment by Elpas. The Company's obligations shall be limited within the warranty period, at its option, to repair or to replace the defective Product or any defective component or part thereof. To exercise this warranty, the product must be returned to the manufacturer freight prepaid and insured.

This warranty does not apply to repairs or replacement caused by improper installation, Product misuse, failure to follow installation or operating instructions, alteration, abuse, accident, tampering, repair by anyone other than Elpas, external causes, and failure to perform required preventive maintenance. This warranty also does not apply to any products, accessories, or attachments used in conjunction with the Product, including batteries, which shall be covered solely by their own warranties, if any. Elpas shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, resulting from a malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Product.

ELPAS MAKES NO EXPRESS WARRANTIES EXCEPT THOSE STATED IN THIS STATEMENT. ELPAS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ELPAS'S SOLE RESPONSIBILITY FOR WARRANTY CLAIMS IS LIMITED TO REPAIR OR TO REPLACE AS SET FORTH IN THIS STATEMENT.

Elpas shall have no liability for any death, personal injury, property damage, or other loss whether direct, indirect, incidental, consequential, or otherwise, based on a claim that the Product failed to function. However, if Elpas is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the company's maximum liability shall be limited to the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive liability of Elpas.

Elpas shall not, under any circumstances whatsoever, be liable for any inaccuracy, error of judgment, default, or negligence of Elpas, its employees, officers, agents, or any other party, or of the purchaser or user, arising from any assistance or communication of any kind regarding the configuration, design, installation, or creation of security system involving the Product, that being the responsibility of the purchaser or user. If Elpas is unable to make such repair or replacement, the company's entire liability shall be limited to the cost of a reasonable substitute product. Elpas shall not be responsible for any dismantling, installation, reinstallation, purchasing, shipping, insurance, or any similar charges.

Elpas shall have no liability for any damages, including without limitation, any direct, indirect, incidental, special, or consequential damages, expenses, costs, profits, lost savings or earnings, or other damages arising out of the use of the Product or the removal, installation, reinstallation, repair or replacement of the Product or any related events. In the event that there is any liability against Elpas, such liability shall be limited to the purchase price of the Product which amount shall be fixed as liquidated damages.

The purchaser and user understand that this Product may be compromised or circumvented by intentional acts; that the Product will not in all cases prevent death, personal injury, property damage, or other loss resulting from burglary, robbery, fire or other causes; and that the Product will not in all cases provide adequate warning or protection. The purchaser and user also understand that a properly installed and maintained alarm may reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such events will not occur or that there will be no death, personal injury, property damage, or other loss as a result of such events.

By purchasing the Product, the purchaser and user shall defend, indemnify and hold Elpas, its officers, directors, affiliates, subsidiaries, agents, servants, employees, and authorized representatives harmless from and against any and all claims, suits, costs, damages, and judgments incurred, claimed, or sustained whether for death, personal injury, property damage, or otherwise, because of or in any way related to the configuration, design, installation, or creation of a security system involving the Product, and the use, sale, distribution, and installation of the Product, including payment of any and all attorney's fees, costs, and expenses incurred as a result of any such events.

The purchaser or user should follow the Product installation and operation instructions and test the Product and the entire system at least once each week. For various reasons, including but not limited to changes in environmental conditions, electric, electronic, or electromagnetic disruptions, and tampering, the Product may not perform as expected. The purchaser and user are advised to take all necessary precautions for the protection and safety of persons and property.

This statement provides certain legal rights. Other rights may vary by state or country. Under certain circumstances, some states or countries may not allow exclusion or limitation of incidental or consequential damages or implied warranties, so the above exclusions may not apply under those circumstances and in those states or countries.

Elpas reserves the right to modify this statement at any time, in its sole discretion without notice to any purchaser or user. However, this statement shall not be modified or varied except by Elpas in writing, and Elpas does not authorize any single individual to act on its behalf to modify or vary this statement.

Any questions about this statement should be directed to Elpas.

CE

Elpas Shield: LWA

Hereby, Elpas declares that the radio equipment type LWA is in compliance with Directive 2014/53/EU.The full text of the EU declaration of conformity is available at the following internet address: www.elpas.com

W.E.E.E. Product Recycling Declaration
For information regarding the recycling of this product you must contact the company from which you orignially purchased it.
If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier.
This product is not to be thrown away with everyday waste - Directive 2002/96/EC Waste Electrical and Electronic Equipment.

CENTRAK ELPAS SERIES

FCC regulatory conformance：

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help

RF Exposure

The SAR limit adopted by FCC is 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported to the FCC for this device type complies with this limit. The highest SAR value reported to the FCC for this device type when using in portable exposure conditions is 0.258 W/kg.

IC regulatory conformance

This device complies with CAN ICES-3 (B)/NMB-3(B).
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subjectto the following two conditions:
(1) this device may not cause harmful interference, and
(2) thisdevice must accept any interference received, including interference that may cause undesiredoperation.
Cet appareil est conforme à la norme CAN ICES-3 (B)/NMB-3 (B).
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.

RF Exposure

The SAR limit adopted by IC is 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported to the IC for this device type complies with this limit. The highest SAR value reported to the IC for this device type when using in portable exposure conditions is 0.258 W/kg.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user’s authority to operate the equipment.