Honeywell

Industrial RTLS
Release 100.1

Industrial RTLS Tag Users Guide

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CHAPTER

1 ABOUT THIS GUIDE

This guide describes the procedures to configure, mount, operate, and maintenance of the Industrial RTLS (Real-Time Location Solution) Tag. Industrial RTLS Tag is one of the components in the Industrial RTLS for industrial control and operations across hazardous and safe areas.

Revision history

Revision	Date	Description
A	April 2022	Initial release of the document

Intended audience

This guide is intended for people who are responsible for planning, administering, and operating the Industrial RTLS Tag. These people include Plant Managers, Process Engineers, and System Administrators.

Prerequisite skills

It is assumed that you are familiar with the operation of Industrial RTLS Tag. OneWireless system software and the plant processes which OneWireless system controls, Microsoft Windows operating systems and network administration tasks.

How to use this guide

This guide provides guidance on:

- RTLS Tag description
- RTLS Tag configuration
- RTLS Tag mounting
- RTLS Tag operation
- RTLS Tag maintenance

Required Honeywell documentation

The following guides and sources contain additional information required for deploying Industrial RTLS Tag. It is recommended to have these guides readily available for reference.

- Industrial RTLS Users Guide
- OneWireless WDM Users Guide
- OneWireless FDAP Users Guide
- OneWireless PCAP Users Guide

Acronyms

The following are the acronyms used:

Acronyms	Expansion
ID	Identity
RTLS	Real-Time Location Solution
WDM	Wireless Device Manager
FDAP	Field Device Access Point
PCAP	Process Control Access Point
PPE	Personal Protective Equipment
P/N	Part Number
MM	Millimeter
LED	Light-Emitting Diode
ISA	Intelligent Service Architecture
RED	Radio Equipment Directive
FCC	Federal Communication Commission
IC	Industry Canada
DSSS	Direct-sequence spread spectrum
HAZLOC	Hazardous Location

CHAPTER

2 INDUSTRIAL RTLS TAG OVERVIEW

RTLS Tag Overview

The following are the overview and features of RTLS Tag:

Overview

RTLS Tag is a personnel wearable Industrial wireless Tag operating at 2.4 GHz ISM band. It is a compact, light, and simple battery-operated device that will be wearable handily using a clip accessory or a lanyard. The RTLS Tag communicates with FDAP32 Anchors to enable Real-time location tracking. It is an Intrinsically safe class1/div1 certified device with a battery life lasting up to 3 years*. The RTLS Tag has an IP65 rating and the ability to operate in harsh environments. The RTLS Tag can also be mounted and used for asset tracking.

* - Depends upon the operating conditions.

CHAPTER

3 ENVIRONMENTAL SPECIFICATION

The following are the Environmental specification:

Specification	Details
Environmental Ratings	IP65
Operating Temperature	-20 to +60° C (IECEx, ATEX, CSA)
Operating Humidity	0~95% non-condensing
Transportation and Storage Humidity	0~95% non-condensing
Mechanical Shock	5G Operational, 15 G Non-Operational

CHAPTER

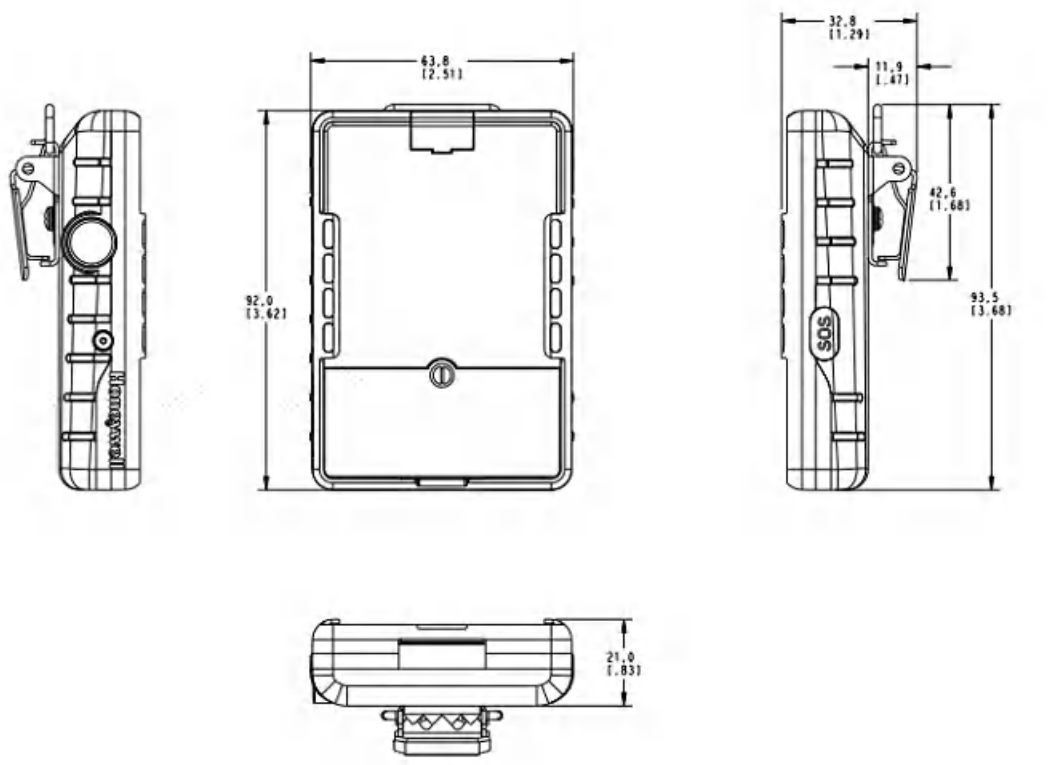
4 HARDWARE COMPONENT

The following are the Hardware components of the RTLS Tag:

- Tag
- Battery
- Clip

Dimensions

The following figure and table give the details of the RTLS Tag dimensions:



Specification	Details
Dimensions	92 mm height x 63.8 mm length x 21.0 mm width.

Specification	Details
Weight	100 grams.
Distance	Distance from Antenna to Enclosure 9.07 mm.
Separation Distance	Separation distance between the user and the antenna of the Tag device is 20.93 mm.

Physical description

The following are the physical description of the personnel RTLS Tag:

External view of personnel RTLS Tag

The following are the external views of the personnel RTLS Tag:

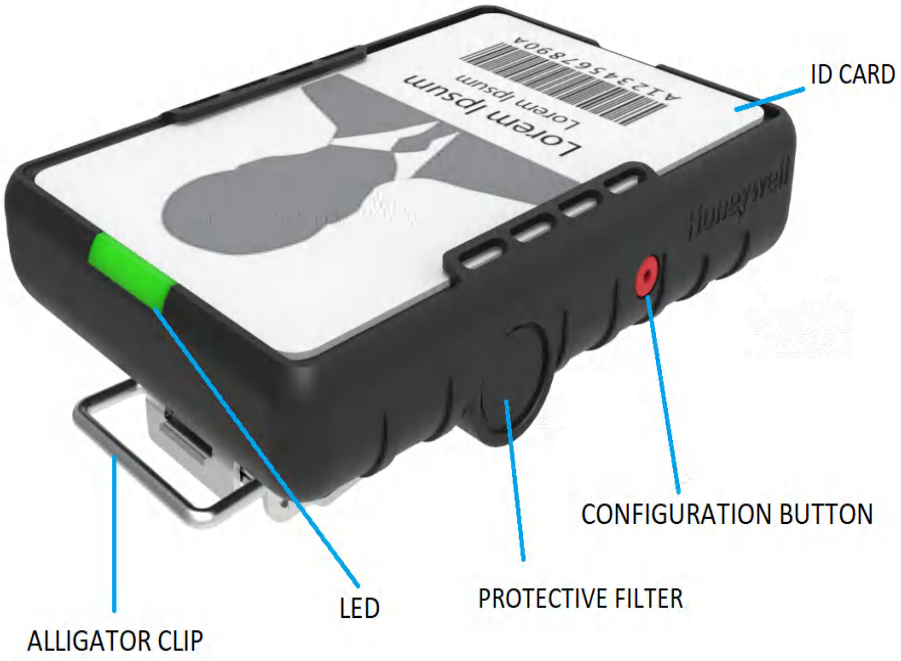
Front View

Rear View


SOS

Component description of personnel RTLS Tag

The following are the component description of the personnel RTLS Tag:



ID card

RTLS Tag is made of plastic, with provision to hold a standard ID card in the front.

Configuration button

A concealed configuration button needs to be operated with a tool for the initial setup configuration of the Tag.

Protective filter

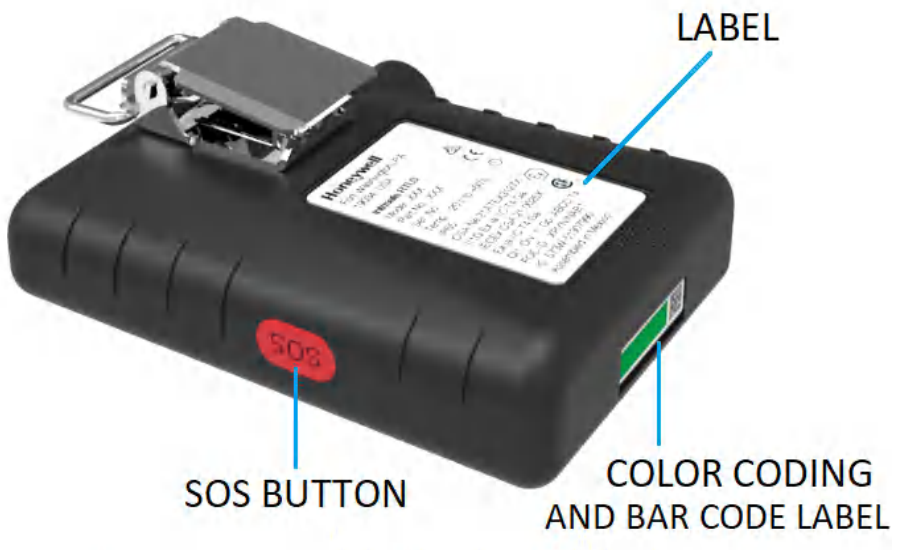
A black protective filter is used for pressure sensing. Next to the configuration button there is a vent stamp.

LED indicator

The LED indicator on the top lights up when the configuration and SOS buttons are operated giving secondary feedback to the user.

Alligator clip

The alligator clip at the back gives the flexibility to be attached anywhere on the overalls, belt, etc.

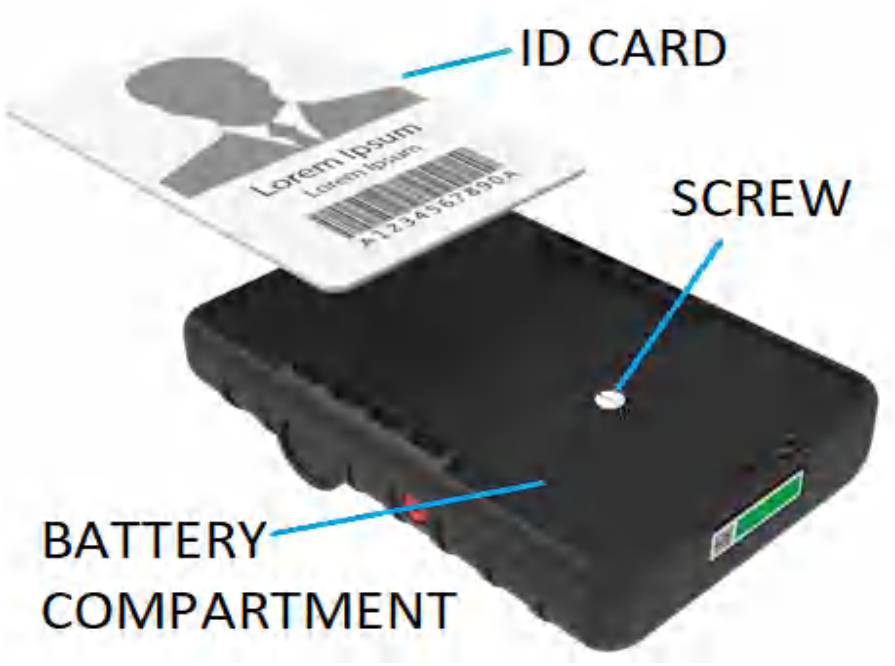


SOS button

An SOS button is easily accessible but activated with a long press for personnel emergency and in man down event.

Color coding and bar code label

There are two labels on the personnel RTLS Tag. A larger one at the back and the small one is a color coding and bar code label at the bottom.



The user needs to remove the ID card to access the battery compartment door which is held by a screw.

Honeywell branding can be seen engraved on the bottom cover on the side near to the configuration button.

CHAPTER

5 RTLS TAG CONFIGURATION

Prerequisites

Log on to the OneWireless user interface and configure the WDM using the First Time Configuration Wizard. The First Time Configuration Wizard appears only for the first log-on. For more information about First Time Configuration and OneWireless user interface details, see the Wireless Device Manager User's Guide.

Establish the connection between WDM and RTLS Tag

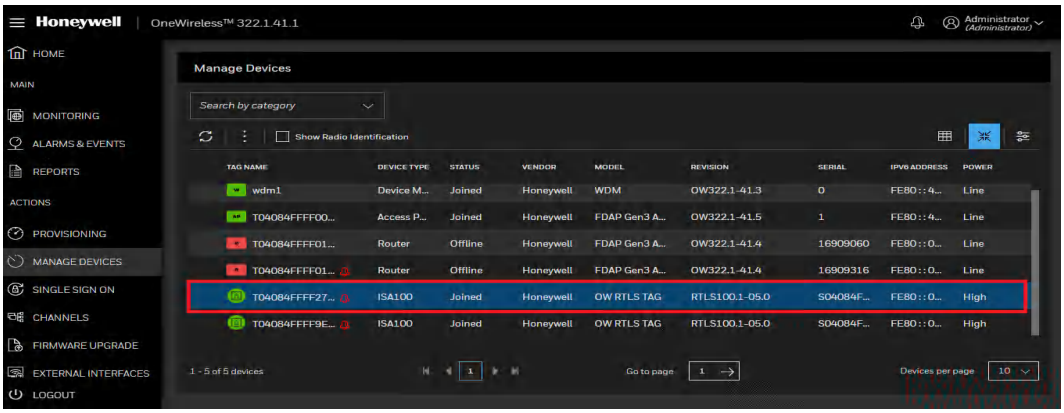
To establish the connection between WDM and RTLS Tag. After Powering ON the RTLS Tag, perform a long press of configuration switch for more than 5 seconds to connect the RTLS Tag to the nearest ISA 100 network, enable you to do the commissioning. WDM enables you to the commission, configure, and monitor the RTLS Tags connected to it from a centralized location. All the RTLS Tag configuration parameters are easily accessible from the WDM, which centralizes all key functions required to manage the RTLS Tag.

Initial setup configuration:

The following are the instruction for the initial setup configuration of the RTLS Tag:

1. Use the configuration pin to press the configuration button for more than 5 seconds.
2. After 5 seconds, RTLS Tag will be in configuration mode, it can be identified by configuration LED (green color) blink sequence once every 10 seconds.

3. RTLS Tag will join the OneWireless user interface (ISA100 network). For more information, see section *Description of RTLS Tag parameters*



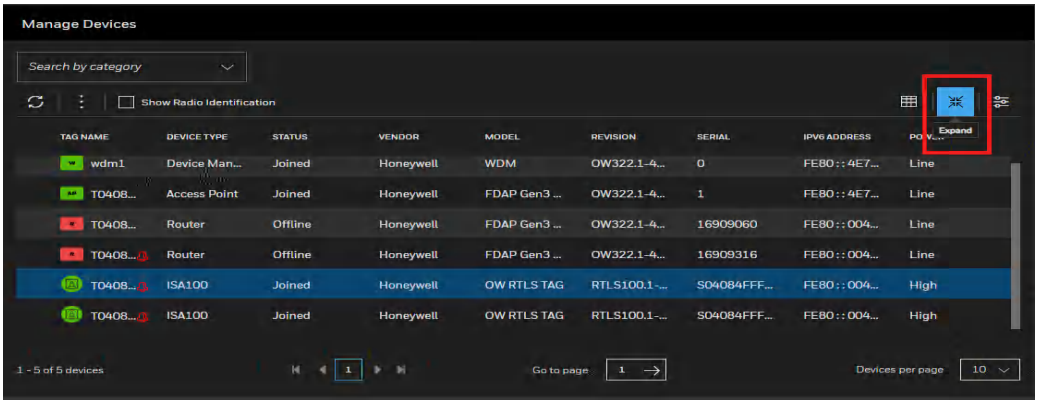
4. RTLS Tag can be identified with the icon as shown below:

5. RTLS Tag will get exit from configuration mode, in two conditions as follows:
   - If the configuration is complete.
   - If timeout happens after 1 hour.
6. In case if configuration mode exits or to add a new RTLS Tag, repeat steps 1 to 3.

Description of the RTLS Tag parameters:

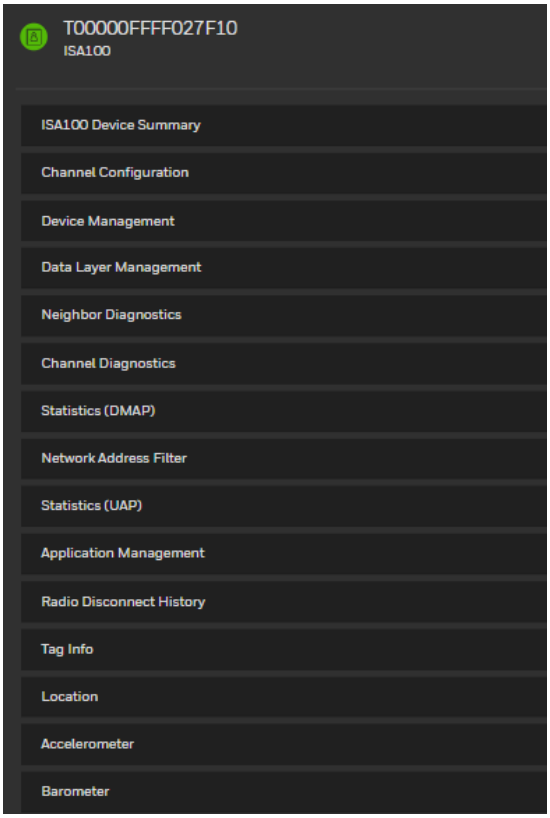
Once the RTLS Tag joins the network, you can configure and monitor the RTLS Tag by using the OneWireless user interface. The Managed Devices in the OneWireless user interface provides a list of all the devices in the OneWireless network. The RTLS Tag will be available in the Managed Devices page only if it is in online. If time out or the RTLS Tag exits from the configuration mode, the RTLS Tag devices will be removed from the Managed Devices.

The Property Panel in the Managed Devices of OneWireless user interface provides configuration properties of all the devices configured in the OneWireless network.

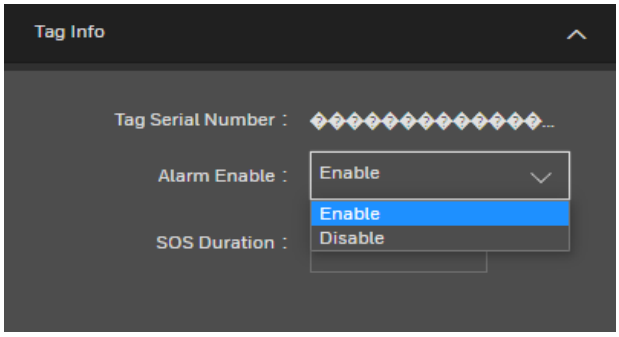


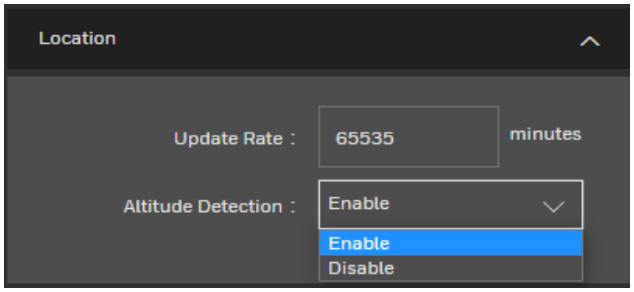
Select the required RTLS Tag from the list of devices from the Managed Devices and then expand to view the RTLS Tag parameter details in the Property panel.

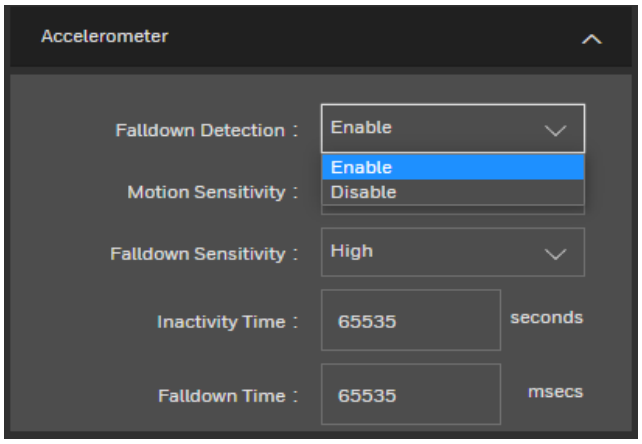
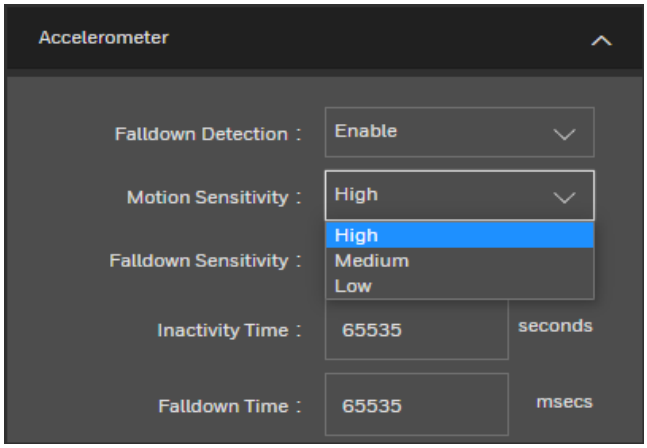
The Property panel of RTLS Tag is shown below:

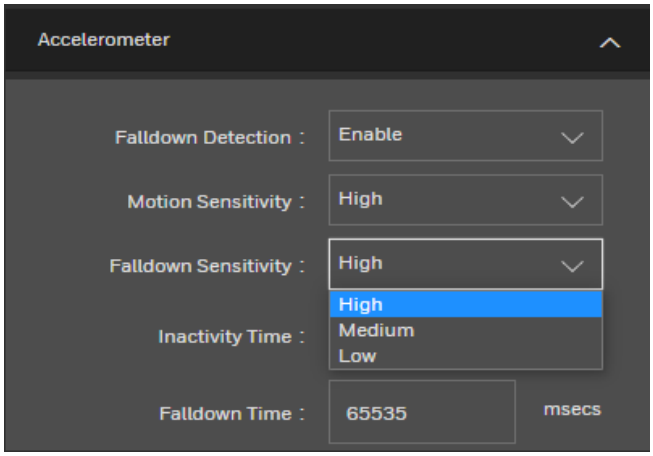
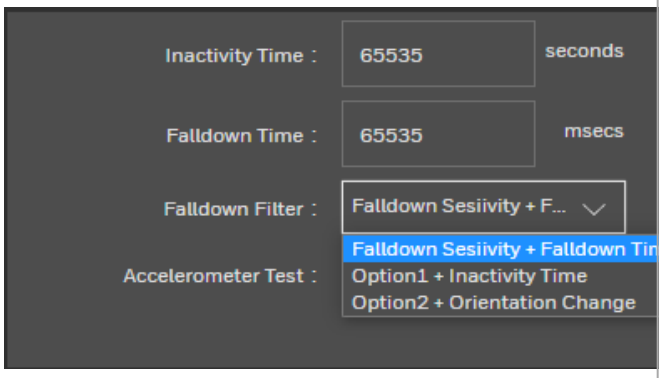


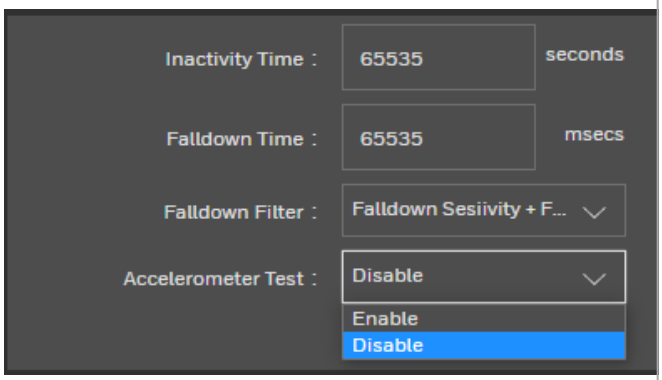
The following table describes the RTLS Tag parameter details.

Panel	Group elements	Description
	Tag Info	Tag Serial Number: Displays the default RTLS Tag Serial Number. You cannot rename the Tag. The Tag Serial Number can be up to 17 digits.

Panel	Group elements	Description
		Alarm Enable: Displays the Tag alarm status as **Enable** or **Disable**.
		SOS Duration: Minimum 3 seconds - Maximum 60 seconds.
	Location	Update Rate: Minimum 1 minute - Maximum 60 minutes
		Altitude Detection: Displays the Altitude Detection status as **Enable** or **Disable**.

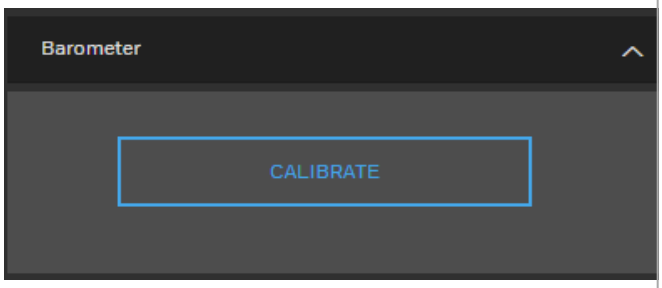
Panel	Group elements	Description
	Accelerometer	Falldown Detection: Displays the Falldown Detection status as **Enable** or **Disable**.
		Motion Sensitivity: Displays the Motion Sensitivity status as **High** or **Medium** or **Low.** The ability of the RTLS Tag to detect the movement of the object to which it is associated.

Panel	Group elements	Description
		Falldown Sensitivity: Displays the Falldown Sensitivity status as **High** or **Medium** or **Low.**
		Inactivity Time: Inactivity Time is an inactive time duration for no motion or activity detected to the object which it is associated. Minimum 60 seconds - Maximum 300 seconds. Falldown Time: Falldown Time is the minimum time the TAG has to experience

Panel	Group elements	Description
		during freefall for the falldown detection. Minimum 80 milliseconds - Max 1000 milliseconds Falldown Filter: Displays the Falldown filter status as **Falldown Sensitivity +Falldown Time** or **Option1 + Inactivity Time** or **Option2 + Orientation Change.**
		Accelerometer Test: Displays the Accelerometer Test status as **Enable** or **Disable**. It is used to test different option of other accelerometer parameters (Falldown time, falldown

Panel	Group elements	Description
		filter, inactivity time, etc) depending on the RTLS Tag working environment or associations. When the test is enabled, configuration LED and SOS LED are updated on the below conditions. 1. Motion Detected - When the tag is moved or picked up or placed on etc. Configuration LED is toggled for each detection. 2. Inactivity Detected - When there is not motion detected for the Tag for inactivity duration, Configuration

Panel	Group elements	Description
		LED and SOS LED are switched OFF. 3. Falldown Detected - When the Tag experience the freefall (for falldown time and falldown filter options), SOS LED is toggled for each freefall detection. **NOTE:** When the test is enabled, configuration LED does not blink every 10 seconds, when tag is in configuration mode.

Panel	Group elements	Description
	Barometer	Calibrate: Displays the Barometer status as **CALIBRATE**.

CHAPTER

6 MOUNTING

The following are the two types of mounting:

1. Personnel RTLS Tag mounting
2. Asset Tag mounting

Personnel RTLS Tag mounting consideration

Personnel RTLS Tag Mount

The Personnel RTLS Tag has flexible wearing options on personnel using the clip as shown below:

1. Around the neck.
2. Worn on the belt.

Asset Tag mounting consideration

The following figure shows the Asset Tag mounting:

RTLS Tag can also be mounted on a asset using the tamper proofing case.

Follow the below steps to place the Tag inside the tamper proof case.

1.
2.

CHAPTER

7 OPERATION

Personnel RTLS Tag operation

Personnel RTLS Tag status and notifications

The flashing LED indicates personnel RTLS Tag status using the colors described in the below table:

LED color		Device status	Blink rate
	GREEN	Power ON.	Blink once during power ON.
	GREEN	Configuration button press more than 5 seconds. During configuration mode ON.	10 seconds OFF and 1 second ON during configuration.
	GREEN	When wake up event detected by accelerometer and accelerometer test is enabled.	Continuously ON.

LED color		Device status	Blink rate
	RED	SOS Button press more than 5 seconds.	Continuously ON.
	RED	When man down event detected by accelerometer and accelerometer test is enabled.	Continuously ON.
	RED	When accelerometer test is enabled, toggled on every fall down detection.	Continuously ON.
	RED	Power ON test failure.	Continuously ON.

Personnel RTLS Tag safety alert

The personnel RTLS Tag has a safety alert SOS button as shown below. The red SOS button once pressed more than 5 seconds, sends an alert to the site dashboard to inform that the personnel will need help during personnel emergencies and man-down events.


SOS
SOS BUTTON

CHAPTER

8 MAINTENANCE

Inspection

The following are the inspection of the personnel RTLS Tag:

Protective Filter

A black round protective filter is used for pressure sensing. Observe for cleanliness and ensure no dust is deposited on the protective filter surface.

Crack

Examine for the visible cracks on the RTLS Tag enclosure surface. If visible cracks are observed, replace the Tag.

Battery replacement

Removal

> **WARNING:**
>
> - DO NOT REPLACE BATTERY WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
> - NE PAS REMPLACER LES ACCUMULATEURS SI UNE ATMOSPHÈRE EXPLOSIVE PEUT ÊTRE PRÉSENTE.

Perform the following procedure to remove the battery.

1. To replace the battery, remove the personnel RTLS Tag from the hazardous area.

2. Keep the personnel RTLS Tag towards the front side and remove the Identity (ID) card from the personnel RTLS Tag enclosure.

> **NOTE:** Collect the ID card and secure it if you want to use it again.

3. Use a screw driver and loosen the exposed screw holding the electronic assembly to the personnel RTLS Tag enclosure.

4. Pull the battery cover and remove it from the personnel RTLS Tag enclosure.

> **NOTE:** Collect the battery cover and secure it for installation.

5. Remove the battery from the battery holder.

Installation

> **WARNING:**
>
> - USE ONLY AA LITHIUM THIONYL CHLORIDE BATTERY FROM EVE P/N: ER1450505 BATTERIES.

- UTILISEZ UNIQUEMENT DES PILES AA AU LITHIUM-CHLORURE DE THIONYLE D'EVE P/N: ER1450505 BATTERIES.

Perform the following procedure to install the battery.

1. Replace with new battery and push the battery in the battery holder. Ensure the battery is inserted on the respective (+ /-) signs as mentioned in the battery holder.

2. Place the battery cover on the battery holder and push the battery cover to get locked in the position.

   NOTE: Use the same secured battery cover during the removal.

3. Insert a screw on the personnel RTLS Tag and use a screw driver to tighten the screw. Ensure the screw is tightly fastened.
4. Insert back the ID card from the bottom as shown below.

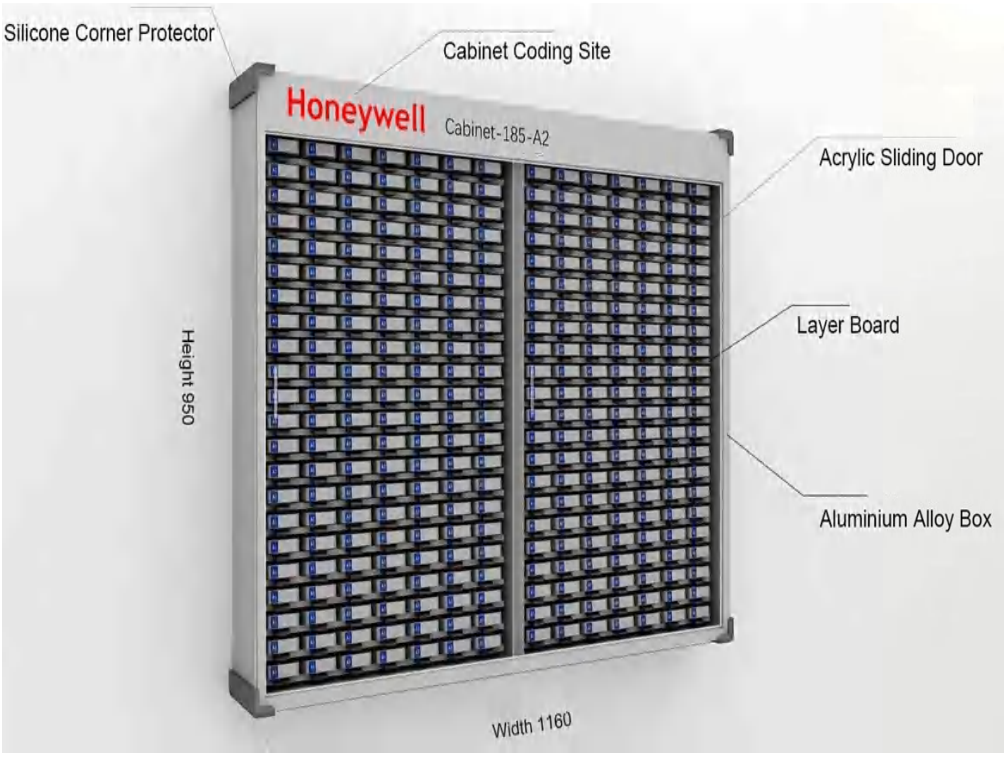

Lorem Ipsum
Lorem Ipsum
A123456789A

CHAPTER

9 STORAGE

Storage rack

The following figure shows the storage rack for the RTLS Tag:



CHAPTER

10 SAFETY AND SECURITY INFORMATION

The following are the special conditions for safe use of the RTLS Tag:

1. Do not replace the battery when in a Hazloc.
2. Use only AA Lithium thionyl chloride battery from Eve P/N ER1450505. For more information, see section "Battery Replacement".
3. Replacement of the electronic components will impair intrinsic safety.
4. Do not break open the Tag enclosures. As this will invalidate the compliance and warranty clauses.

Security Checklist

The following are the checklist points you must complete to secure RTLS Server and its communications.

1. Prevent unsafe use of USB sticks on RTLS Server.
2. Ensure that the RTLS Server node does not have other unintended software installed.
3. Ensure that the RTLS Server node and related deployed servers should be physically protected in a controlled area in the site.
4. Ensure that the networks in which RTLS server nodes operate are physically protected in a controlled area.
5. Ensure that the Password related recommendations are followed as per recommended windows policies. Refer to Password Recommendations.
6. Ensure that only the required ports are opened on the RTLS Server nodes and firewalls. All ports needed for RTLS server communications are configured during the installation.
7. RTLS Server applies role-based security for authorizing all operations. Refer to section "Configuring Users and Roles" in *Industrial RTLS Users Guide*.

8. Regularly check the audit and event logs to view the user activity pertaining.
9. Ensure that only the required privileged users are provided access to RTLS portal.
10. Assign every person accessing the system a unique user or access ID, and prevent multiple users from sharing the same account or access ID.
11. Do not share administrative IDs such as Admin accounts. Create a separate user for each administrator.
12. Ensure that the latest anti-virus software is installed.
13. Ensure that the anti-virus has the latest updates.
14. Ensure that the anti-virus is active and on-demand scan is enabled.

Users Roles for RTLS

RTLS is enabled with role based access to various pages in the application.

Based on the role the access permissions are enabled as below.

Role	User	Actions
System Admininstrator	User	A system administrator is an actor whose primary responsibility is to configure user accounts, roles and permission within RTLS server.
Super User	User	A super user is an actor whose primary responsibility is to setup organization hierarchy and system settings which affects the whole system. Apart from configuring user accounts, roles and permission, a super user has unrestricted access to the rest of RTLS server components.
Supervisor	User	A supervisor is an actor whose primary responsibility is to setup system to perform day to day activities such as configuring personnel details, asset details, site / area / zone details, safety and security profiles etc., A supervisor also has the privilege to

Role	User	Actions
		delegate its responsibility to operator and remove it at a later point in time.
Operator	User	Monitors Dashboard and mustering.

Report security Vulnerability

To report a security vulnerability, see How to report a security vulnerability as follows.

How to report a security vulnerability

For the purpose of submission, a security vulnerability is defined as a software defect or weakness that can be exploited to reduce the operational or security capabilities of the software.

Honeywell investigates all reports of security vulnerabilities affecting Honeywell products and services.

To report a potential security vulnerability against any Honeywell product, please follow the instructions at Vulnerabilityreporting.aspx.

Submit the requested information to Honeywell using one of the following methods:

- Send an email to security@ honeywell.com; or
- Contact your local Honeywell Process Solutions Customer Contact Center (CCC) or Honeywell Technical Assistance Center (TAC).

Third-party licenses

This product may contain or be derived from materials, including software, of third parties. The third party materials may be subject to licenses, notices, restrictions and obligations imposed by the licensor.

The licenses, notices, restrictions and obligations, if any, may be found in the materials accompanying the product, in the documents or files accompanying such third party materials, in a file named third party licenses on the media containing the product, or at Thirdpartylicenses.

CHAPTER

11 PRODUCT CERTIFICATIONS

The following are the compliance statements.

RED (Radio Equipment Directive)

RTLS Tag complies with EN 302372 of the R&TTE Directive. The RTLS Tag does not cause harmful interference and accepts any interference received.

WARNING: Changes or modifications made to this equipment not approved by Honeywell invalidate the compliance to RED.

FCC (Federal Communication Commission)

RTLS Tag complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions.

1. RTLS Tag will not cause harmful interference.
2. RTLS Tag must accept any interference received, including an 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, According 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 under the instructions, will 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.

CAUTION:

- Any changes or modifications not expressly approved by the party responsible for compliance could avoid the user's authority to operate this equipment.

Industry Canada (IC)

RTLS Tag complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions.

1. RTLS Tag will not cause interference.
2. RTLS Tag must accept any interference, including an interference that may cause undesired operation.

Déclarations de conformité

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.

CAUTION:

- RTLS Tag complies with radio frequency exposure limits set forth by Industry Cananda for an uncontrolled environment.
- Cet équipement est conforme aux limites d'exposition aux radiofréquences defines par Indstrie Canada pourun environment non contrôlé.

RTLS-Tag Radio

RTLS-Tag Radio has been approved by Innovation, Science, and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that has a gain greater than the maximum gain indicated for any type listed are strictly prohibited from use with this RTLS Tag.

Le présent émetteur radio a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés cidessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont trictement interdits pour l'exploitationde l'émetteur.

WARNING:

Failure to follow these installation guidelines could result in death or serious injury. Ensure only qualified personnel perform installation or service.

Explosions could result in death or serious injury. Before connecting a handheld communicator in an explosive atmosphere, ensure the instruments are installed under intrinsically safe or non-incendive field wiring practices.

Verify that the operating atmosphere of the transmitter is consistent with the appropriate hazardous location certifications. Electrical shock could cause death or serious injury.

RTLS Tag complies with Part 15 of the FCC Rules. Operation is subject to the following conditions.

- RTLS Tag will not cause harmful interference.
- RTLS Tag must accept any interference received, including an interference that may cause undesired operation could be intentional or unintentional and needs to be protected against.

Wireless certification

The following are the specification of Wireless certification:

Specification	Details
Multiple standards /field protocols	ISA100 Wireless and ranging.
Frequency band and operating channels	Unlicensed ISM Band (2.4 – 2.483 GHz) 15. ISA100 Wireless.
Compliance	Radio Approvals: FCC Part 15.247 Subparts B and C Canada – Industry Canada AS NZS 4771-2000 Method RSS-210, Issue 7. RSS-Gen, Issue 2. ICES-003, Issue 4. European Union – ETSI EN 300 328 V1.7.1. EN 301 893 V1.4.1. EN 301 489-17 V1.2.1. EN 301 489-1 V1.6.1. IEC61326-1, 2005. CE Mark. R & TTE Directive 1999/5/EC EMC

Specification	Details
	Directive 2004/108/EC LVD.
Security	128-bit AES encryption.
Quality of service	Supported.
Transmit power (maximum)	DSSS: 9 dBm.
Receive sensitivity (Typical).	DSSS (2.4 GHz): -95 dBm @ 250 kbps.

Hazloc Certification

The following are the specification of Hazloc certification:

Specification	Details
Hazardous Environment Ratings	II1G Ex ia IIC T4 Ga - ATEX Intrinsic Safety (2014/34/EU). Ex ia IIC T4 Ga - IECEx Intrinsic Safety. C1 D1, Groups A,B,C,D T4 - CEC Intrinsic Safety. Class 1, Zone 0, AEx ia IIB T4 Ga - NEC Intrinsic Safety.

Label Drawing

The label shown is for reference purposes only.

CHAPTER

12 APPENDIX A

The following is the list of model/Kit number and spare parts that are applicable to RTLS Tag assembly:

S.No.	Model /Kit Numbers	Spare part number	Description
1	OW-RTLTG2/51121718-100	-	Industrial RTLS Tag
2	51157016-501	50141440-001	Battery-AA

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  or

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