Software Documentation

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Product Documentation

Emanate PowerPath™ Tag

PPT-200

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Emanate PowerPath™ Tag PPT-200
Quick Start Guide

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1 INTRODUCTION

1.1 The PowerPath Tag

ThePowerPath Tag incorporates both hardware and software that provide the ability to track location and usage state of AC powered assets. PowerPath Tagsare used as part of advanced RTLS technology that can contribute to optimum usage of assets in a facility. This Quick Start Guide contains instructions for installing your PowerPath Tag, connecting your Tags to your asset, and for initially configuring the tags.

1.2 Additional Documentation

This Quick Start Guide contains basic information for physically installing PowerPath Tags. PowerPath Tags can be used in a variety of different RTLS systems, some of which may require special software configuration as well. Please see any additional documentation which accompanies your product for further information.

1.3 Parts

Before you begin installation, make sure you have the following parts on hand:

Part	Comment
PowerPath Tag	Supplied by Vendor
C13 Power Cable	Not supplied by Vendor
Quick Start Guide	Supplied by Vendor
Additional documentation and software	Your RTLS Vendor may supply additional documentation and software in support of this product
For mounted installations you may also need the following items:	
Tie-wraps	Not supplied by Vendor
Double sided tape	Not supplied by Vendor

1.4 Important Notices

- The Model PPT-200 Tagcontains 802.11 and Bluetooth Low Energy transmitting devices, and must be installed in a manor which provides at least 20 cm (7.8 inches) of separation distance from all persons.
- **Obtaining the Latest Software Version**: You can use the Emanate Tag Management server to upgrade your tags with the latest firmware.

2 Overview of the Installation Process

There are three overall stages to the installation process:

1. **Initial Activation**:

   In order for the tag to communicate with the Wi-Fi network and the PowerPath server, basic network access parameters must be configured into the tag.

   This configuration is done with the PowerPath Tag iPhone App.

   See Section 3 for more information.

2. **Physical Connection**:

   The tag must then be physically connected to the device to be tracked.

   See Section 4 for more information.

3. **Additional Software Configuration**:

   Once activated and connected to the device, additional configuration is done from the PowerPath Server.

   See the documentation accompanying the PowerPath Server for more information.

3 ACTIVATING THE TAG

This section contains discussion of the steps to initially activate a tag using the iPhone app.

3.1 Unpacking

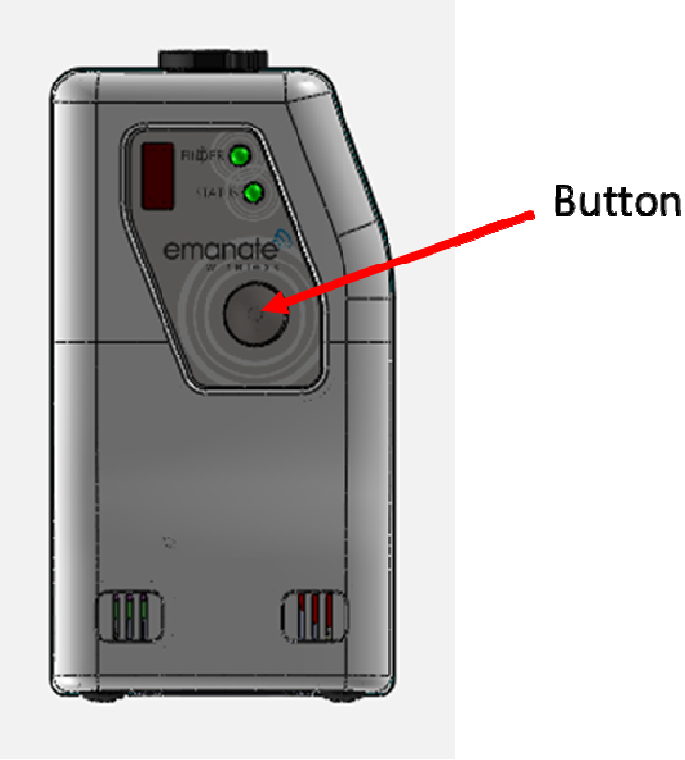
Carefully unpack the Tag from the box.

3.2 Pressing the Button

The Tag ships with the battery charged, but with the hardware and radios in a deep sleep state.

In order to configure the tag from the iPhone application, you must first wake up the tag. This is done by pushing the button on the top of the tag.

Once you push the button, the tag wakes up, and the Bluetooth Low Energy radio becomes active for 30 minutes.

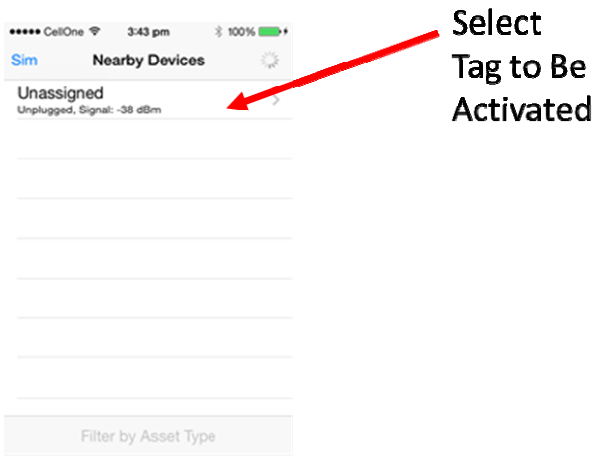


Note If the Status LED does not flash after pressing the button, the battery may have been run down. In that case, you should first charge up the tag by plugging it into an AC outlet for 2 hours.

3.3 Connecting the iPhone App

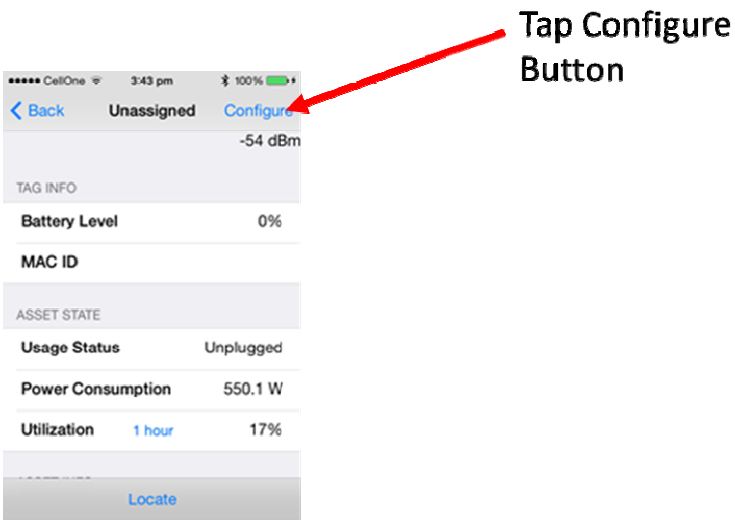
You should see the PowerPath iPhone App icon on your phone. If the PowerPath iPhone Application is not installed on your phone, first install it using the Apple App Store.

Once you have started the App, you will be presented with a list of tags that are ready for activation. Select the desired tag from the list.



3.4 Configuring Network Parameters with the App

After you have selected a device, a device detail screen will appear. Tap the Configure button to go to the Activation parameter screen.

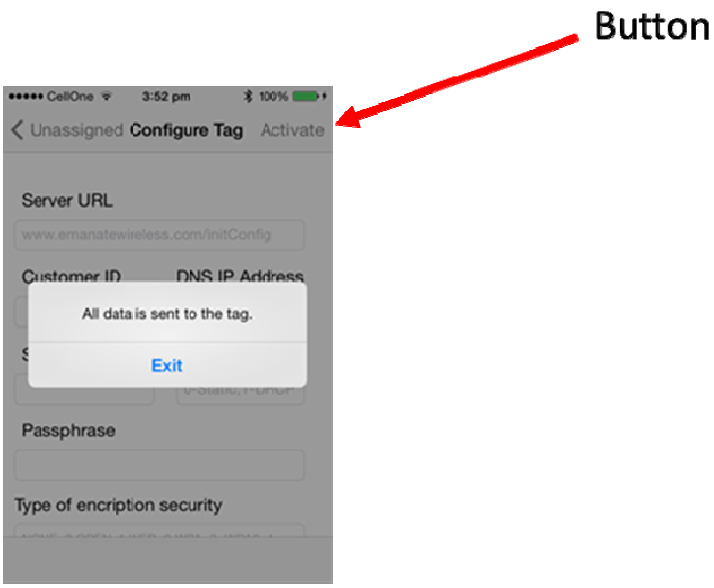


The next screen will allow you to enter Activation parameters for the Tag.

These parameters are the following:

- Server Name: DNS name or IP address of the Emanate Server
- WiFi SSID: SSID of the WiFi network
- Password: WPA2-PSK passphrase for WiFi network
- Customer ID: Unique ID for customer (assigned by Emanate)

Once you have filled in the parameters, tap the Activate button. Once activation is complete, you will see the message below.


Button
CellOne
3:52 pm
100%
Unassigned
Configure Tag
Activate
Server URL
www.emanatewireless.com/initConfig
Customer ID
DNS IP Address
All data is sent to the tag.
Exit
Passphrase
Type of encription security

4 CONNECTING THE TAG

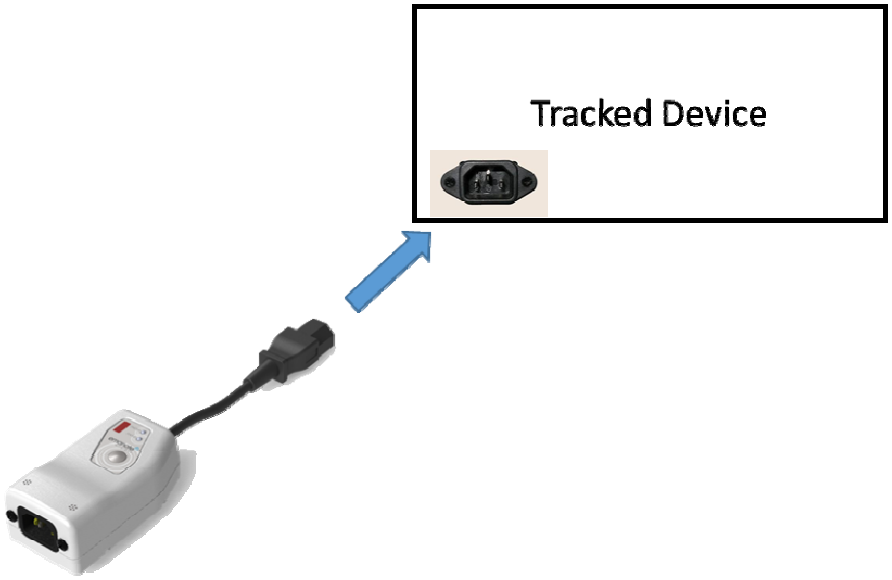
This section contains discussion of the steps to physically attach the tag to the device to be tracked.

4.1 Connecting Tag Cable to Device

Note **Your Device Must have a IEC60320 C14 (Male) Connector**: The tag is designed with an IEC60320 C13 (Female) cable, and can only work with devices that have a IEC60320 C14 (Male) connector.

Note **The PPT-200 is rated for 15A operation.** The PPT-200 cannot be used with any devices which require rating of more than 15A.

Note **Warning.** To avoid contaminating or infecting personnel, the service environment, or other equipment, make sure that equipment which has been used before has been appropriately disinfected and decontaminated.



1. Insert the Tag's C13 cable into the C14 connector on the device to be tracked.

4.2 Tag Mounting Options

Note **Moisture**:The tag is rated for IP-52, which is protected from moisture up to a damp wipe. Do not mount the tag in a place where it will be subject to dripping liquid, spillage, excessive condensation, or other significant volume of moisture.

1. Mounting Option 1: Mount the tag to a pole or other narrow object on the device using tie-wraps, feeding the wraps through the belt-loop openings on the bottom of thetag.

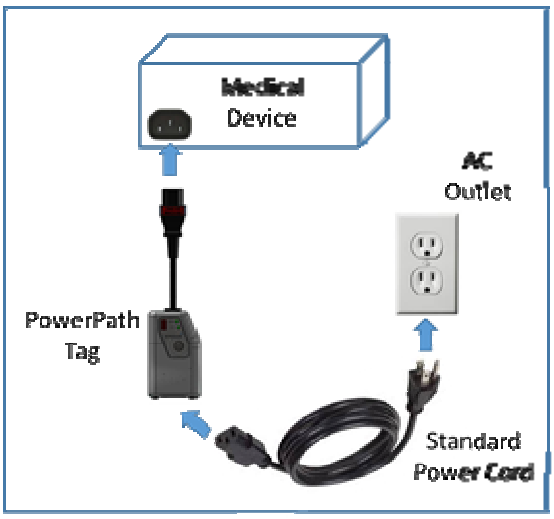
2. Option 2: Mount the tag with strong sticky tape or other adhesive, making sure the tag is secure.

4.3 Connecting to AC Power

Note **The PPT-200 is rated for 15A operation.** The PPT-200 cannot be used with any devices which requiresmax current of more than 15A.

Note **Protecting against Electric Shock.** The PPT-200 is classified as Class I Equipment with an internal power sourceaccording to IEC 60601-1/EN 60601-1/CSAC22.2 601.1/UL 2601-1, which means that it isan instrument included in the protective grounding (protective earth) system of the room byway of grounding contacts in the power plug.To protect the patient and hospital personnel, when operating from an AC source, tag must be grounded. You must use an appropriate C13 3-wire cablewhich grounds the tag to the power line ground (protective earth) when plugged intoan appropriate 3-wire receptacle. DO NOT OPERATE THE PPT-200 ON A 2-WIRE AC SUPPLY.

After the Tag is securely mounted, connect a standard IEC60320 3-wire C13 (female) power cord into the tag in order to power the tracked device.



5 SAFETY COMPLIANCE NOTICE

This device has been tested and certified according to the following safety standards and is intended for use only in InformationTechnology Equipment which has been tested and certified to these or other equivalent standards:

- UL Standard 60950-1 / CSA C22.2 No. 60950-1-03
- EN 60950-1
- UL Standard 60601-1
- EN 60601-1

Note This device is approved for indoor use only.

Note **The PPT-200 is rated for 15A operation.** The PPT-200 cannot be used with any devices which require rating of more than 15A.

Note **Service**: There are no user serviceable parts inside the Tag. Please refer all repair operations to a qualified service center.

6 CERTIFICATIONS

NOTE: FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

The distance between user and products should be no less than 20cm

7 EMANATE LEGAL NOTIFICATIONS

COPYRIGHT & TRADEMARKS.

LIMITED WARRANTY

Emanate guarantees that the PowerPath Tag Model PPT-200 is free from physical defects in material and workmanship under normal use for one year from the date of purchase. If this product proves defective during this warranty period, contact Emanate Customer Support in order to obtain a Return Authorization Number. BE SURE TO HAVE YOUR PROOF OF PURCHASE AND SERIAL NUMBER FROM THE PRODUCT PACKAGING ON HAND. RETURN REQUESTS CANNOT BE PROCESSED WITHOUT PROOF OF PURCHASE. When returning a product, mark the Return Authorization Number clearly on the outside of the package and include your original proof of purchase.

IN NO EVENT SHALL EMANATE'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, ITS ACCOMPANYING SOFTWARE, OR ITS DOCUMENATION. EMANATE DOES NOT OFFER REFUNDS FOR ANY PRODUCT. Emanate makes no warranty or representation, expressed, implied or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. Emanate reserves the right to revise or update its products, software or documentation without obligation to notify any individual or entity.

ADDITIONAL NOTIFICATIONS

The PowerPath Tag, Model PPT-200 product is subject to U.S. export controls when exporting outside the United States. You are responsible for ensuring compliance with these regulations.

The EmanatePowerPath Tag, Model PPT-200 includes software embedded therein ("Embedded Software") for use with the Emanate Tag Server. Your use of the Embedded Software and Server Software is subject to the End User License Agreement (EULA) included in this box.

The Emanate PPT-200 tag is non-recyclable.