

CRESTRON-PINPOINT

Crestron Home Beacon Setup App



1 Introduction

The CRESTRON-PINPOINT app configures PP-100 PinPoint™ Proximity Detection Beacons for use with a Crestron® system. Configuration includes pairing PinPoint beacons with rooms and adjusting the beacons' range for optimal room coverage. Once configuration is complete, the app generates a configuration file that is imported into the CRESTRON-APP and CRESTRON-APP-PAD Control Apps for Apple® iOS® operating system on the device(s) that will be used with the PinPoint beacons.

2 Download the App

NOTE: This section provides instructions for downloading the app from the App Store® online store that is available on an iOS device. The application can also be downloaded from the App Store using iTunes® software on a computer. For detailed information, refer to www.apple.com/support/itunes/store/apps.

Prerequisites

- Cellular data network (iPhone® and cellular-equipped devices only) or Wi-Fi® network that is connected to the Internet (Refer to support.apple.com/kb/TS1398 for Wi-Fi network information.)
- iTunes account (Refer to support.apple.com/kb/HT2731 for information about setting up an account.)
- Bluetooth® communications enabled on the iOS device

Download the App from the App Store

1. On the iOS device's home screen, tap the **App Store** icon (🍏).
2. Search for the app:
 - a. Tap **Search**.
 - b. Tap the search field and enter the search term **Crestron**.
 - c. Tap **Search**. The Crestron apps are listed.
3. Tap the Crestron Home® Beacon Setup App and follow the prompts to download it. The iOS device downloads the app. The app's icon (📍) appears on the home screen and shows the status of the download and installation.

3 Create a PinPoint System

Create a PinPoint System for a residence by specifying rooms and pairing a beacon to each room.

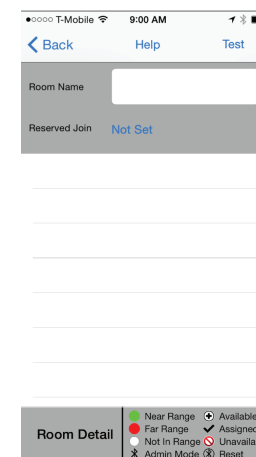
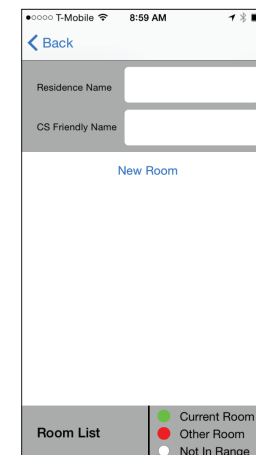
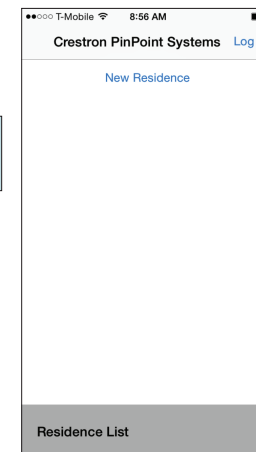
Create a System

1. On the iOS device, tap 📍 to start the app. The **Residence List** screen is displayed.

NOTE: If prompted to use your current location, tap **Yes**.
2. Tap **New Residence**. The **Room List** screen is displayed.
3. Tap the **Residence Name** field and enter the name of the residence where the system is installed. This field is for user reference only.
4. Tap the **CS Friendly Name** field and enter the information found in the **Friendly Name/Location** field of the CRESTRON-APP or CRESTRON-APP-PAD app.

Create Rooms

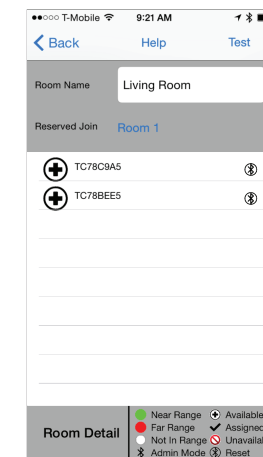
1. Tap **New Room** to create a room that is to be configured for PinPoint use. Its **Room Detail** screen is displayed.
2. Tap the **Room Name** field and enter the name of the room that contains the PinPoint beacon. Tap **Done** when complete.
3. Tap **Not Set** and select the room number from the list that matches the SIMPL Windows program. A system can contain up to 100 joins; each join connects with a beacon.
4. Tap **Back**. The **Room List** screen is displayed with the newly created room entry and the status of its beacon connection.
5. Repeat steps 1 through 4 for each room that contains one or more PinPoint beacons.



Pair Beacons with a Room

Once all of the rooms have been added to the PinPoint system, they are ready to be paired with the beacons.

1. From the **Room List** screen, tap a room you want to pair with a beacon to display its **Room Detail** screen. When the **Room Detail** screen is displayed, the app begins scanning for beacons. Any beacon that is discovered through Bluetooth or that is sending proximity updates that are received by the app is listed on the **Room Detail** screen. Previously added beacons are also on the list but are grayed out if they are not detected. Beacons are displayed with one of the following icons.
 - The white icon indicates that the beacon is unplugged or out of range of the iOS device.
 - The red icon indicates that the iOS device can see the beacon but is not in the beacon detection area.
 - The green icon indicates that the iOS device is within the beacon detection area.
 - ✖ indicates that the beacon is in Admin mode. When Admin mode times out, the icon changes to a white, red, or green icon if the beacon has already been paired with the room, or the icon disappears from the list if it is already paired with another room.
 - ⊕ indicates that the beacon is available for pairing with the selected room.
 - ✓ indicates that the beacon is already paired with the selected room. If ✖ is displayed (Admin mode), tap the beacon to change its properties. Refer to section 4 for more information.
 - ⊗ indicates that the beacon is already assigned to another room and cannot be added to the current room.
 - ⊛ indicates that a beacon has never been configured or has been reset to the factory settings.
2. While in Bluetooth range of the beacon, plug the beacon into a wall outlet. The beacon is displayed on the **Room Detail** screen with either ✖ or ⊛ shown as its status. Refer to the list of icon definitions in step 1 for details.



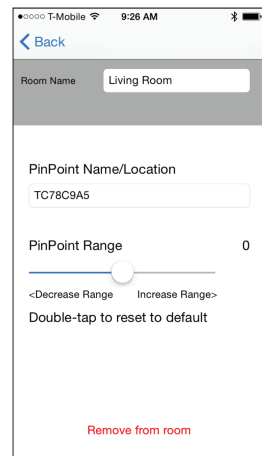
NOTE: The beacon appears on the screen within 15 seconds.

NOTE: To avoid confusion, plug only one beacon in at a time.

NOTE: If the beacon is already plugged in, unplug it and plug it in again to place it in Admin mode.

Pair Beacons with a Room (Continued)

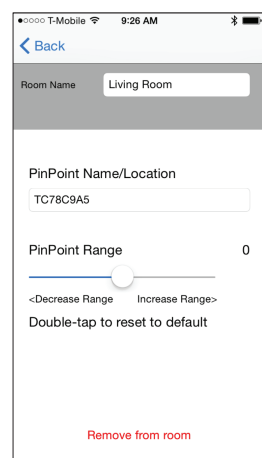
3. Tap an available beacon (indicated with ⊕) to add it to the room. When a beacon is selected, its configuration screen is displayed.
 - Tap the **PinPoint Name/Location** field and enter the name or location of the beacon for easy identification.
 - Move the **PinPoint Range** slider control to adjust the signal transmission range of the beacon. To reset to the factory setting, double-tap the slider control.
 - Tap **Remove from room** to remove the beacon from the room.
4. Tap **Back** to return to the previous screen.
5. Repeat the procedure to add each beacon to a room.



4 Edit a Beacon's Properties

A PinPoint beacon's properties can be edited to update the beacon's identification information and range. While the properties are being edited, the beacon can also be removed from a room. Perform the following to edit a beacon.

1. From the **Room List** screen, tap a room to display its **Room Detail** screen.
2. Unplug and then plug in the beacon to be edited. The beacon is placed in Admin mode and ⊕ is displayed next to the beacon to be edited.
3. Tap the beacon to be edited. The beacon's configuration screen is displayed.
4. Edit the beacon's properties.
 - Tap the **PinPoint Name/Location** field and enter the name or location of the beacon for easy identification.
 - Move the **PinPoint Range** slider control to adjust the signal transmission range of the beacon. To reset to the factory setting, double-tap the slider control.
 - Tap **Remove from room** to remove the beacon from the room.
5. Repeat steps 1 through 4 to edit each beacon's properties.



5 Evaluate a PinPoint System Configuration

Once the system rooms are configured and PinPoint beacons have been added to the rooms, check for proper coverage.

1. In the app, navigate to the **Room List** screen to display the list of configured rooms.
2. While holding the iOS device, walk slowly through each room that has been configured with a PinPoint beacon. The room list reorders itself in real time as the iOS device moves in and out of PinPoint rooms so that the current room (indicated with a green icon) is always at the top of the list.
3. While walking through the residence, check for the following:
 - Verify that multiple PinPoint rooms are not showing a green icon at one time. If there is overlap, reduce the range of one of the beacons as described in section 4.
 - Verify that each PinPoint room is correctly detected as the current room when the iOS device is in the desired coverage area. If a room is not correctly detected, increase the range of the beacon as described in section 4 or add additional PinPoint beacons to the room.

6 Export and Import a PinPoint System

Export a PinPoint System File

Once a PinPoint system has been created, it must be exported to be used by the CRESTRON-APP or CRESTRON-APP-PAD Control Apps for Apple iOS. Perform the following to export a PinPoint system.

1. From the **Residence List** in the PinPoint Setup App, tap **Email**. An e-mail message opens with the settings attached in an IBC file.
2. Address the e-mail to an e-mail account on the target iOS device.
3. Send the e-mail message.

Import a PinPoint System File

NOTE: The CRESTRON-APP or CRESTRON-APP-PAD app must be installed and configured on the iOS device.

PinPoint system files are received via e-mail as an attached IBC file. To import a PinPoint system file, open the e-mail, and then open the attachment. The PinPoint System file is automatically imported into the control app.

NOTE: The CRESTRON-APP or CRESTRON-APP-PAD app must be restarted after the PinPoint system file has been imported.

7 Program PinPoint

To add PinPoint functionality to a SIMPL Windows or Crestron Studio™ program, add the PinPoint device extender to the Crestron App programming symbol of the iOS device that will be interacting with PinPoint.

8 PinPoint Reset

To clear pairing information from a PinPoint beacon, it must be reset to the factory default settings. For details, refer to the PP-100 Installation Guide (Doc. 7735) at www.crestron.com/manuals.

Beacons that have been reset to their factory default settings are displayed on the **Room List** screen with a ⊕ when operating in Admin mode. If ⊕ is displayed, the reset procedure should be repeated.

Product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed at patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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