



CONNECTED WIRELESS SYSTEM GUIDE

Module 1 - System Overview,
Gateway & MrPEX® Smart Home Application



SECTION	PAGE
1 Introduction	
Why MrPEX [®] ?	1-1
Using this Manual.....	1-1
System Overview.....	1-2
2 Gateway Installation & MrPEX[®] Smart Home Application Setup	
Gateway Installation.....	2-1
Smart Device Application Download.....	2-3
Online Application Access	2-3
MrPEX [®] Smart Home Application Setup.....	2-4
Gateway – wifi Setup	2-5
3 MrPEX[®] Smart Home Dashboard	
Dashboard Overview	3-1
Using the Dashboard	3-2
4 Profile Settings	
My Profile.....	4-1
Logout.....	4-1
5 MrPEX[®] Smart Home Main Menu	
Devices.....	5-1
Gateway	5-1
All Devices.....	5-2
Add New Group	5-2
Edit Group	5-3
Add New Device	5-4
Edit Device	5-5
Device Alert Management	5-6
Automation	5-7
Users and Permissions.....	5-8
Status	5-8
6 Message Window & Status Bar	
Message Window.....	6-1
Status Bar.....	6-2
7 Icons & Device Settings	
Icons (Device, Group, Automation).....	7-1
Device Settings.....	7-1
8 About this App/FAQ/Contact Support	
About this App.....	8-1
FAQ (Frequently Asked Questions)	8-2
Contact Support.....	8-3

WHY MrPEX®?

MrPEX® is one of the leading suppliers of PEXa tubing for radiant floor heating/cooling and snowmelt systems. In an effort to provide the very best solutions for our customers, we always strive to find and partner with industry leading quality products. For the latest in wireless zoning controls, we have partnered with Salus Controls who designs and manufactures industry-leading hydronics, HVAC, and fan coil products for heating engineers and contractors who need to drive profitability and deliver customer satisfaction.

Through this partnership of proven, innovative products, we enable contractors to provide homeowners and building managers with the comfort and control they need, while reducing installation times and minimizing costly call-backs. With our easy-to-install wireless hydronic controls, and patented, industry-first auto balancing actuators, we are advancing the industry.

We also offer a broad array of smart home products, including connected thermostats, a smart home hub, smart plugs, water valve shutoff, and door and window sensors. Salus Controls has been a proven leader in the European market since 2003. Together, we are expanding across North America.

USING THIS MANUAL

For the latest Instructions go to: WWW.MRPEXSYSTEMS.COM

Special Attention Boxes

This manual uses special attention icons to alert the reader of important safety concerns, information important to reliable operation of the controls or helpful installation/setup information.

**Safety:**

Indicates a condition which may cause severe personal injury, death or major property damage

**Important Information:**

Indicates information which requires special attention for correct operation of the control

**Your Benefit:**

Indicates helpful installation or setup information

SYSTEM OVERVIEW

The MrPEX® Wireless System uses Zigbee communications protocol to provide a universal language for smart components to work together seamlessly and securely, with or without an internet connection.

MrPEX® WIRELESS SYSTEM COMPONENTS WITH GATEWAY



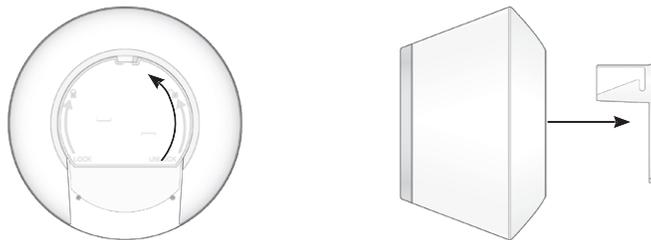
GATEWAY INSTALLATION



To operate wirelessly with an internet connection, MrPEX® wireless devices must use the Gateway. This section provides guidance for installation, joining the Zigbee network with or without an internet connection and connection to the MrPEX® Smart Home application.

Install the Gateway in a central location close to a 120 VAC electrical receptical and free from radio frequency interference. If the Gateway is intended to be connected to the internet, it must be close to an internet router for setup. Once the Gateway is connected to the internet, a wifi connection can be established and the Gateway can be moved to another location.

Step 1. Confirm that all required parts are present in the Gateway package: Gateway with port cover, Ethernet Cable, USB Power Cable, USB Power Adapter and Installation/Quick Start Guide.



Step 2. Remove the port cover from the bottom of the Gateway by twisting it $\frac{1}{4}$ turn counterclockwise

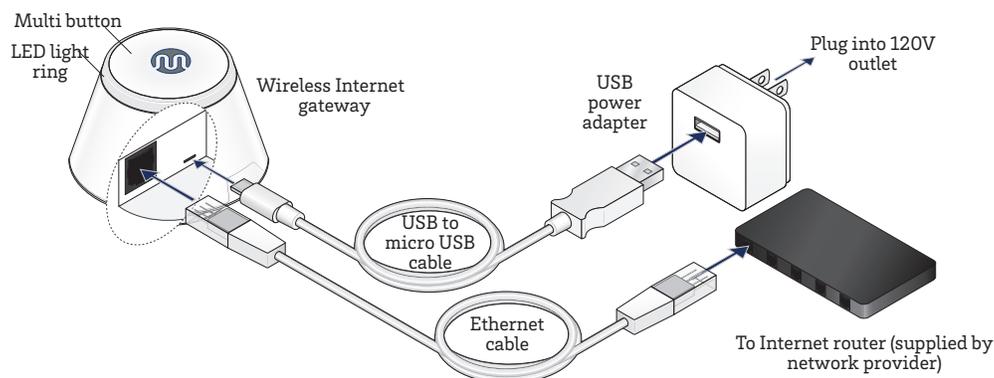
Step 3. If connecting the Gateway to the internet, attach the ethernet cable and the power cable to the gateway only, making sure it is within easy reach of a router or ethernet connection

a) For best results, DO NOT CONNECT the power cable to electrical power outlet until after ethernet cable is attached to the router

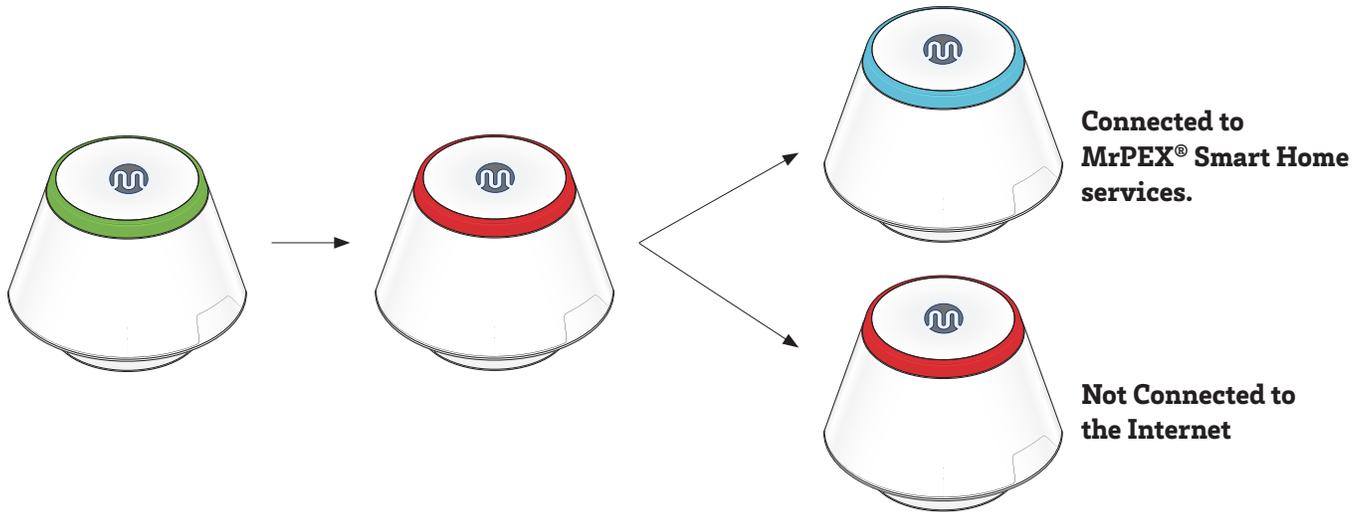
b) If no internet connection is intended, it is not necessary to attach the ethernet cable to the Gateway

Step 4. Reattach the port cover on the Gateway

Step 5. Connect the ethernet cable to the Router if desired



Step 6. Plug the USB Power Cable into the USB Adapter and connect it to a 120 VAC outlet



Step 7. When the Universal Gateway is powered, the LED ring around the multi button will be solid green. The LED will then turn red. Once an internet connection is available (if plugged in to a router) the LED will turn green. Using the internet connection, the Gateway will attempt connection to MrPEX® Smart Home services. If successful, the LED will turn blue. If no internet connection is detected, the LED will be red.

LED Indications

Gateway is connected to the internet and communicating with MrPEX® Smart Home services

Solid Blue



Gateway is not connected to the internet

Solid Red



Gateway is waiting for device joining

Flashing Red



Solid Green

Gateway is powering up and attempting to establish connections



Flashing Green

Gateway is in identify mode



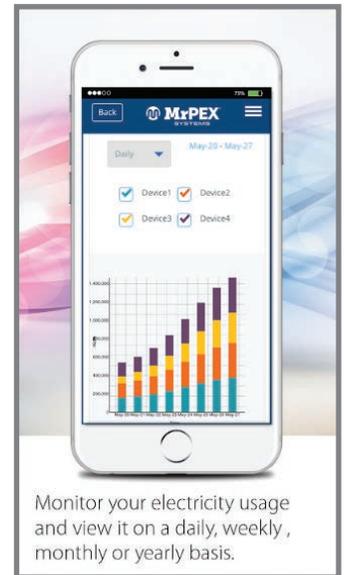
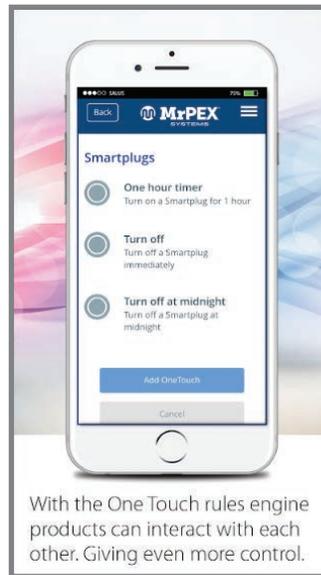
SMART DEVICE APPLICATION DOWNLOAD



Download the MrPEX® Smart Home application on your IOS or Android device for remote access to your home comfort system. After downloading the application, follow the steps in section 4.1.1 to create a user profile and set up an Gateway.

Available on the
App Store

Available on
Google Play



ONLINE APPLICATION ACCESS

To access your MrPEX® Smart Home features without a smart phone application, simply log on to:
<http://wireless.mrpexwireless.com/>.

MrPEX® SMART HOME ACCOUNT SETUP

Whether using a smart device or online application, the user will be prompted to set up a user account.



Choose "Set up an account" at the bottom of the screen. After creating a profile and logging in, the user is prompted to activate a gateway.



See the installation instructions for the Gateway for internet and power connections.



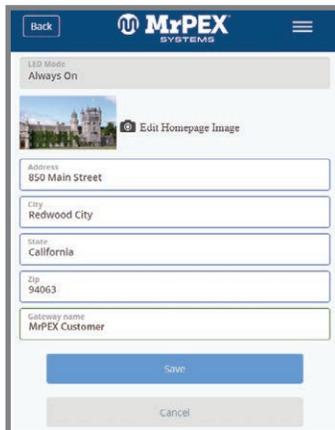
The LED on the Gateway will be blue when the device is connected to the internet. Read through the following activation steps before proceeding to prevent a timeout during activation.

Step 1. Press the multi-button on top of the Gateway to begin the activation process. After 2 minutes, the activation sequence will time out, so make sure all required information is available.

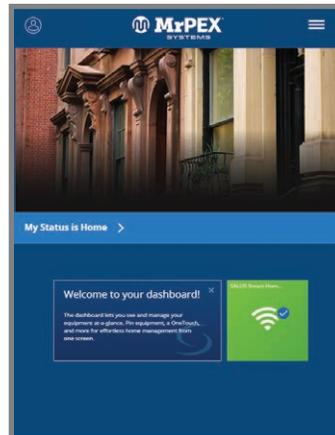


The gateway serial number will appear once the connection is initiated.

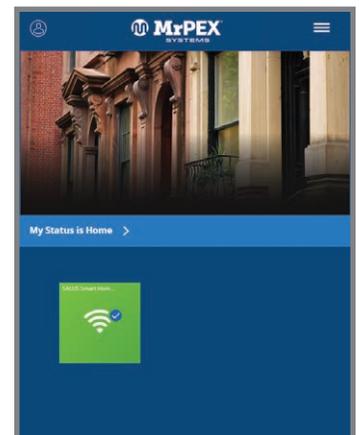
Step 2. Choose the correct country, Hour format and LED Mode. Then scroll down.



Step 3. Enter the street address, city, state and zip code for the gateway and choose a Gateway name. This information can be updated after activation.



After the Gateway is activated, a first-time welcome message is displayed, and a Gateway icon is automatically pinned to the dashboard.



Click the "x" in the upper right-hand corner to remove the welcome message.

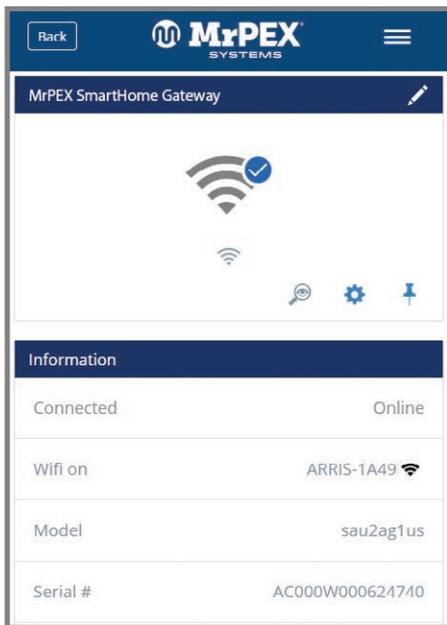
GATEWAY - WIFI SETUP



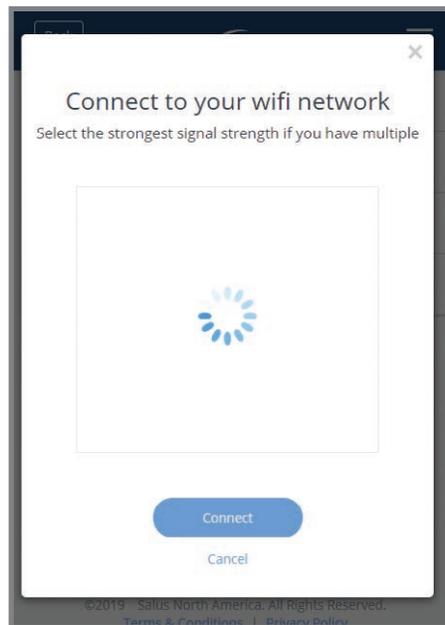
Step 1. Select the Gateway Icon from the MrPEX® Smart Home Dashboard.



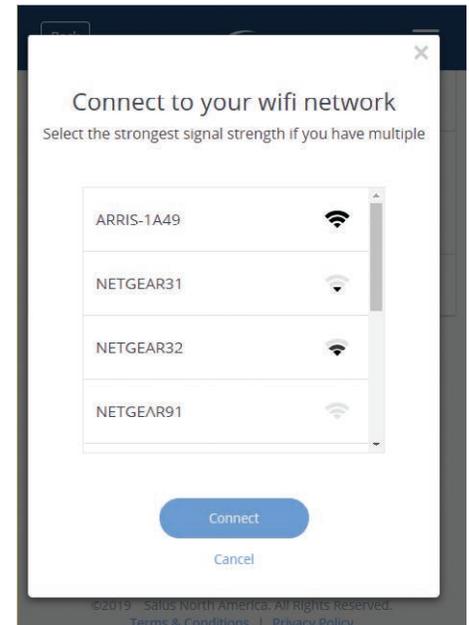
Step 2. When the tile flips on the display, select the icon title to access gateway settings.



Step 3. Scroll to the bottom of the gateway setting screen and choose "Scan for wifi".



Step 4. After the application finds available wifi networks, choose the applicable network.



Step 5. Disconnect the Gateway from the ethernet connection. Be sure that the LED on the Gateway is blue, indicating it is connected to the internet.

Step 6. Move the Gateway to the desired location.

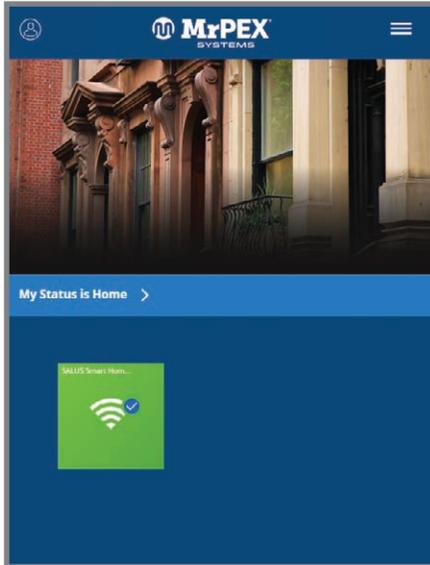
With your MrPEX® Smart Home dashboard, you can effortlessly manage your equipment and connected home from one screen. Here you can pin equipment to the dashboard, automate frequent tasks, and monitor your gateway connection status and equipment states from a computer or smart device.

DASHBOARD OVERVIEW

The diagram illustrates the MrPEX Smart Home dashboard interface with the following components highlighted:

- Profile Settings:** A callout box points to the top-left corner of the dashboard, showing options for Profile Settings, My Profile, and Logout.
- Message Window:** A callout box points to the top image area of the dashboard, which displays the address "850 Main Street" and a photo of a castle.
- Status Bar:** A callout box points to the blue bar below the message window, showing "My Status is Home" and "Issues 2".
- Device Icons:** A callout box points to the grid of device icons, including a lamp, a gateway, and an HVAC unit.
- Company Information:** A callout box points to the bottom-left section, displaying the MrPEX logo, "Smart Home MAKING LIFE SIMPLE", and details like Company (MrPEX Systems), Build Date (06/12/2019), Released (06/12/2019), and Version (1.1.13.11).
- Support Links:** A callout box points to the bottom-right section, featuring "About This App", "FAQ", and "Contact Support" buttons.
- Your Dashboard:** A callout box points to the right side of the dashboard, listing features: Connecting Gateways and Equipment, Managing Equipment Profiles, and Passwords.
- Support Email:** A callout box points to the bottom-most section, showing an email address: support@mrpexsystems.com.

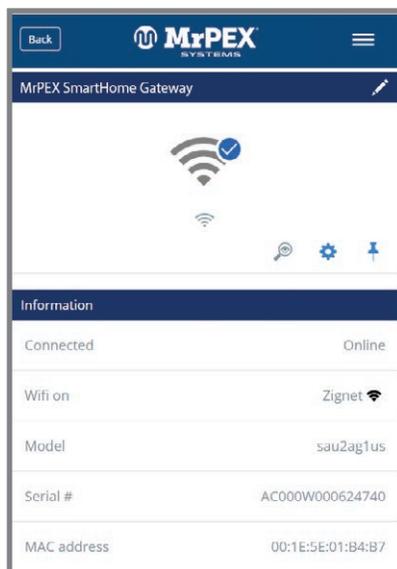
USING THE DASHBOARD HOME SCREEN



Choosing the gateway tile icon flips the tile on the screen.



Click the "x" in the upper right corner to flip the tile back. Choosing  will unpin the icon from the dashboard. Choosing the gateway name in the upper left provides access to options.



Edit the Gateway name by selecting . Clicking  will cause the LED to flash green, identifying the Gateway. Use  to access status and setup information for the device. Choose  to toggle the pin-to-dashboard status.

Choose the  icon in the top header for the Profile menu.



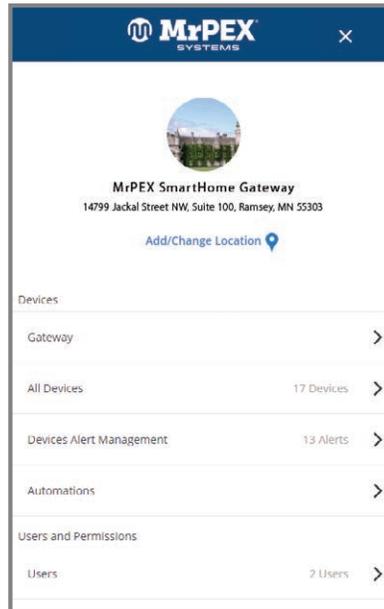
MY PROFILE

The name, email address and phone number can be updated under, "My Profile" at any time. Scrolling down, the user can choose the country, language, clock format, date format and temperature units. Once the desired changes are made to the profile, press . An option to delete the user profile is also available.

LOGOUT

Choosing the Logout option will return the user to the Sign in screen.

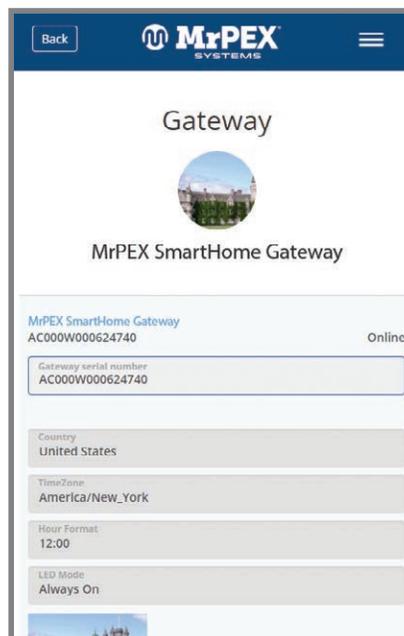
With your MrPEX® Smart Home dashboard, you can effortlessly manage your equipment and connected home from one screen. Here you can pin equipment to the dashboard, automate frequent tasks, and monitor your gateway connection status and equipment states from a computer or smart device.



DEVICES

Update and organize MrPEX® Smart Home Devices

Gateway



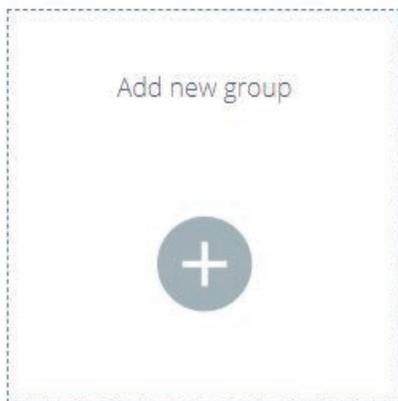
Update any of the settings entered during Gateway activation.

All Devices

Add, manage or group equipment.

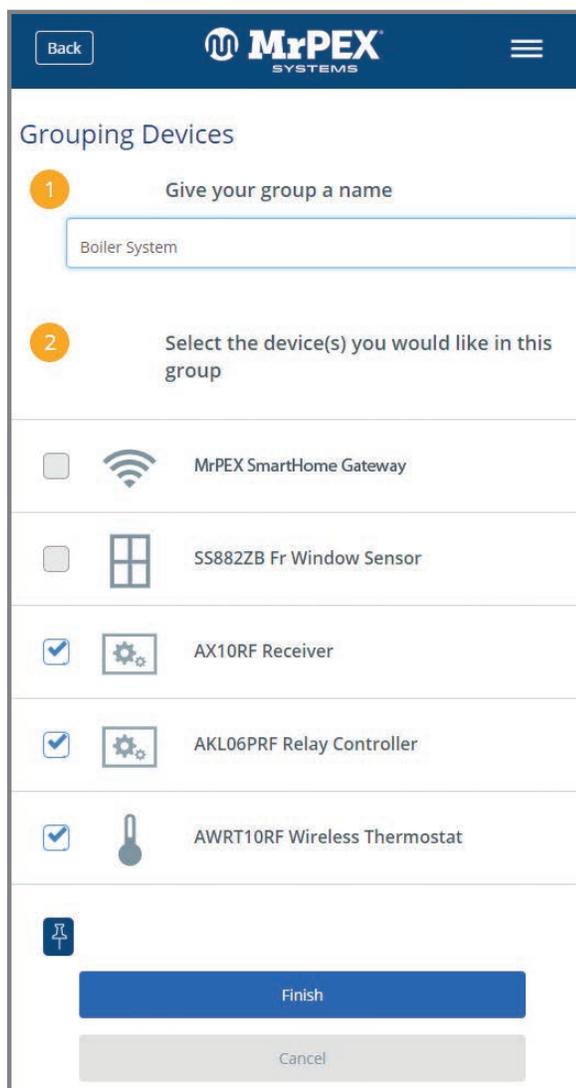
ADD NEW GROUP

Groups are typically used in larger automation systems for keeping track of related equipment. For smaller systems, it may not be desirable to group devices.



Choosing add new group prompts the user to name the group and choose devices to include from the list of ungrouped equipment.

Clicking the  icon toggles between pinned  and not pinned  to the dashboard.



The screenshot shows the 'Grouping Devices' screen in the MrPEX SYSTEMS mobile app. At the top, there is a 'Back' button, the MrPEX SYSTEMS logo, and a menu icon. The screen is divided into two main steps:

- 1 Give your group a name**: A text input field contains 'Boiler System'.
- 2 Select the device(s) you would like in this group**: A list of devices with checkboxes and icons:
 -  MrPEX SmartHome Gateway
 -  SS882ZB Fr Window Sensor
 -  AX10RF Receiver
 -  AKL06PRF Relay Controller
 -  AWRT10RF Wireless Thermostat

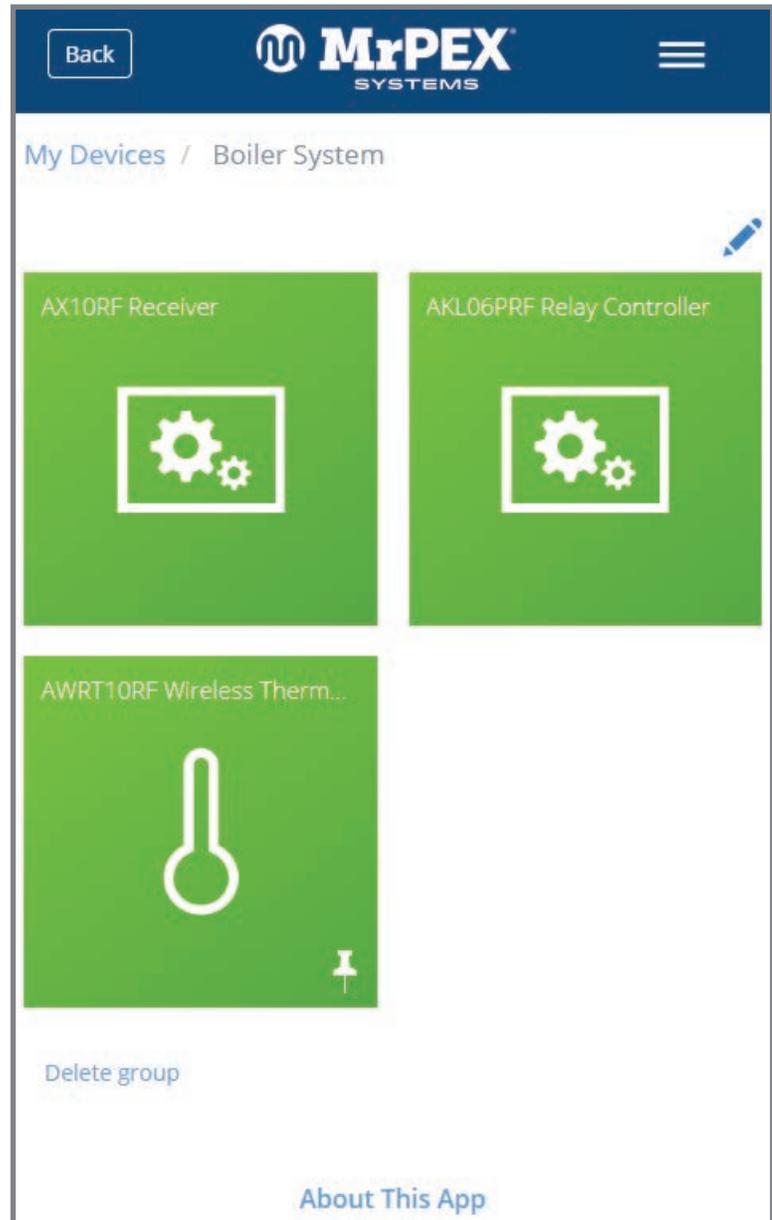
At the bottom, there is a 'Finish' button (highlighted in blue) and a 'Cancel' button (greyed out). A small pin icon is visible in the bottom left corner of the screen.

EDIT GROUP



Clicking on an existing device group allows the user to edit or delete the group. Use  to edit the group or select "Delete Group" at the bottom of the screen.

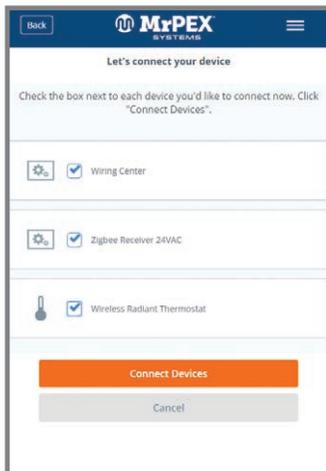
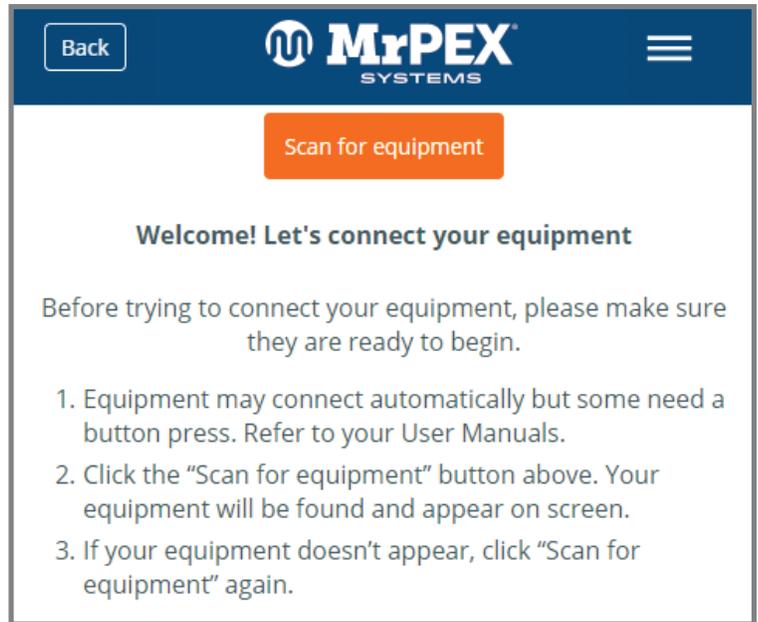
Clicking a device tile icon enables access to the device status, serial number, and firmware version. In addition, the user can make changes to the display name of the device and, if applicable, change configuration and/or schedules.



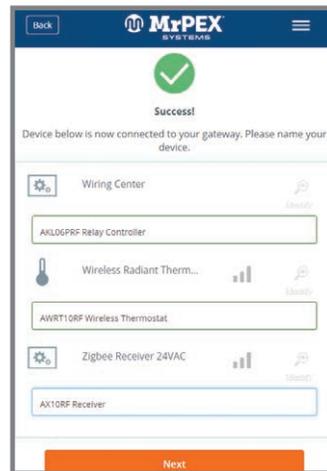
ADD NEW DEVICE



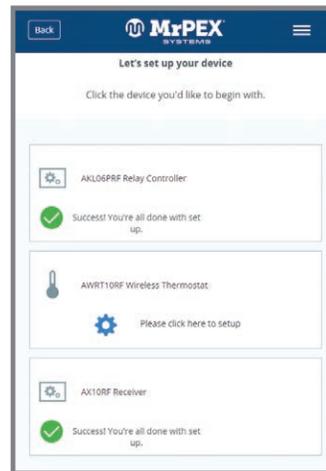
Before adding a new devices to your MrPEX® Smart Home application, review the installation instructions for the device to be sure it is ready for connection. In many cases, several devices may be added at the same time. When all equipment is ready for pairing, press “Scan for devices”.



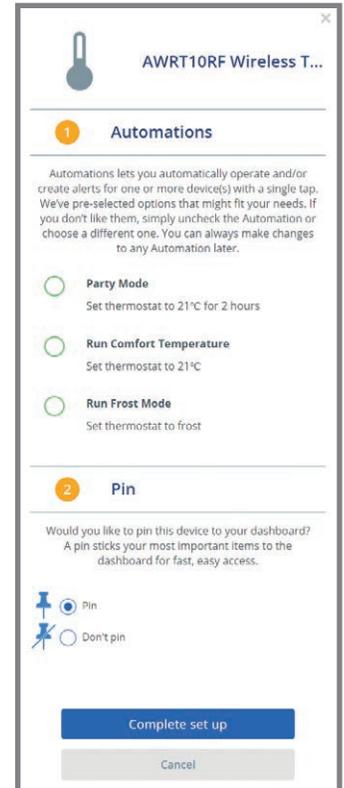
The MrPEX® Smart Home application will list of all devices ready for connection. For each component to be connected, click . Press **Connect Devices**.



Give each device a unique name for easy identification on the dashboard then press **Next**.



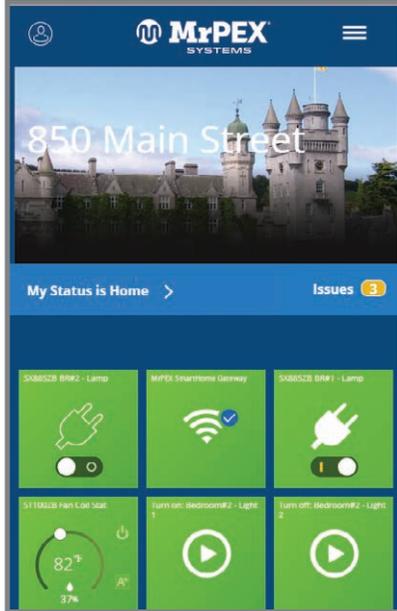
Choose the  to setup any devices where required.



Change parameters as desired and then press **Complete set up**.

Follow installation, pairing and setup instructions included with each device to finalize the pairing process.

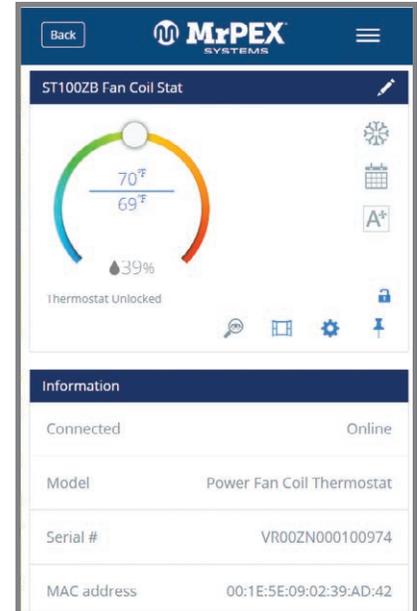
EDIT A DEVICE



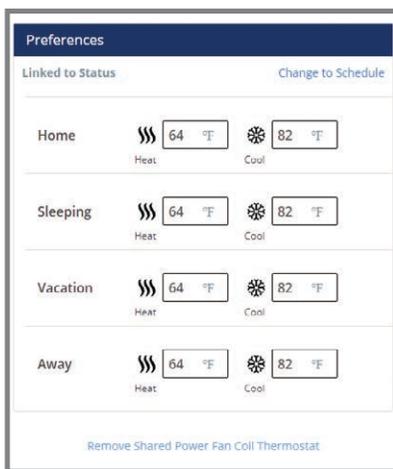
To edit a device pinned to the Dashboard, simply click the green tile icon that represents the device. The tile flips on the screen showing limited options.



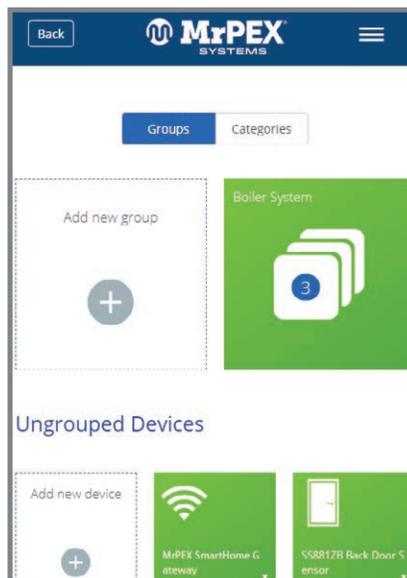
For example, on a thermostat, available options are changing the operation mode (Heat/Cool/Off) or adjusting the target setpoint. Note that the actual temperature is on the below the bar, the target setpoint is on the top.



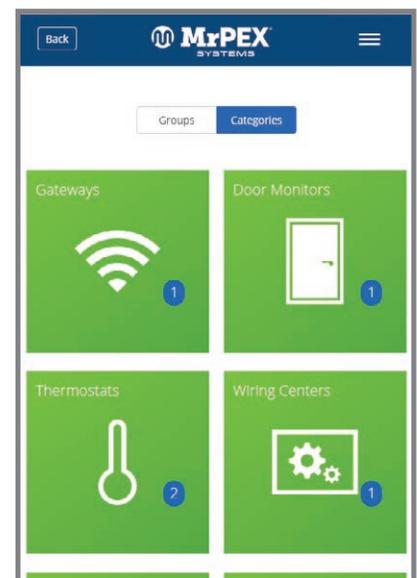
Clicking the device name in the upper left of the tile allows the user more setting options.



At the bottom of the option screen is a choice to remove the device. If this option is chosen, the device will not be accessible via the MrPEX® Smart Home application.

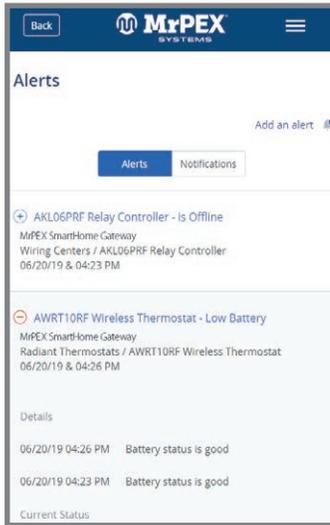


Choosing a tile from Ungrouped Devices or Categories works in the same way.

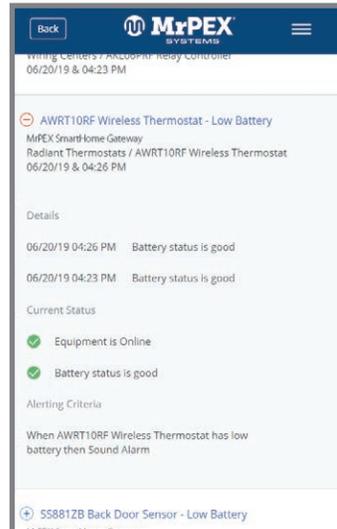


DEVICE ALERT MANAGEMENT

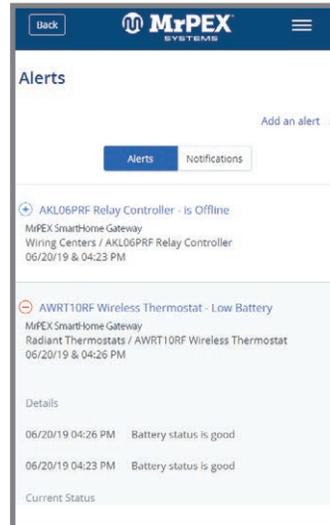
Configure Device Alerts and Notifications



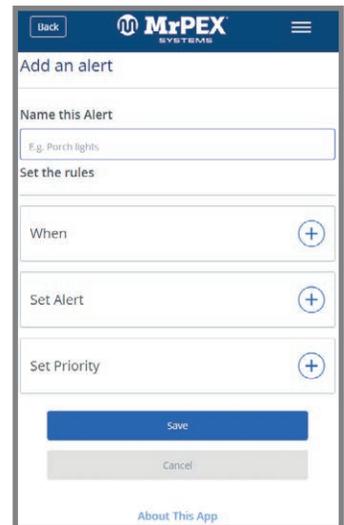
Choosing Device Alert Management from the Main Menu provides access to preset alerts and allows users to create custom alerts.



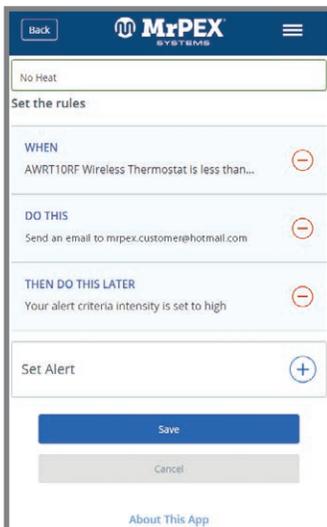
Click the **+** symbol expands the alert description providing details, the current status and alerting criteria.



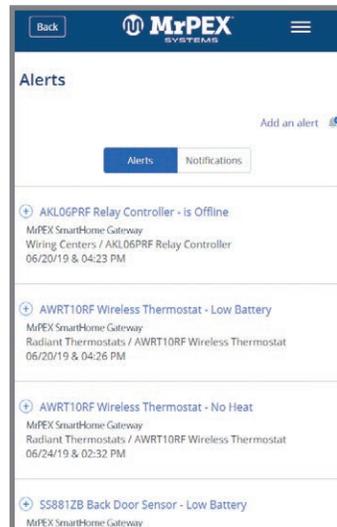
Click "Add an alert" to create a custom alert.



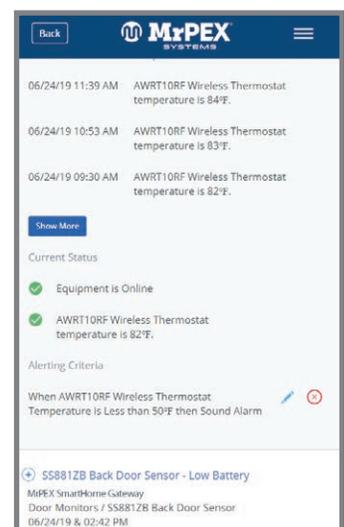
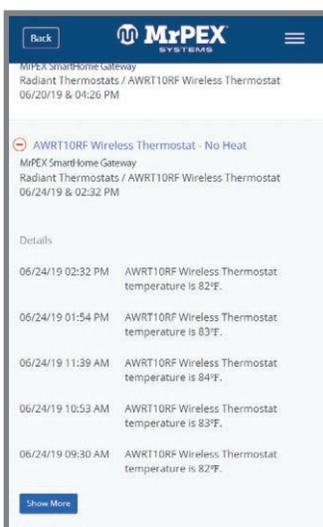
Enter a name for the alert and create an alert by pressing the **+** symbol after the desired criteria.



Set the condition, notification method and priority for the alert. Press **Save**.



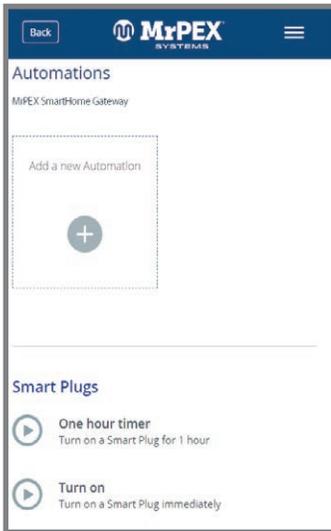
Press **+** to review the alert details, current status and alerting criteria.



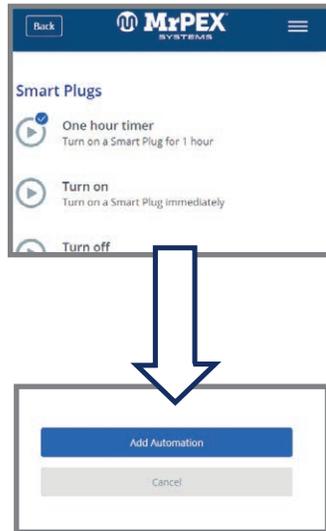
Click  to edit the alert or  to delete it.

AUTOMATIONS

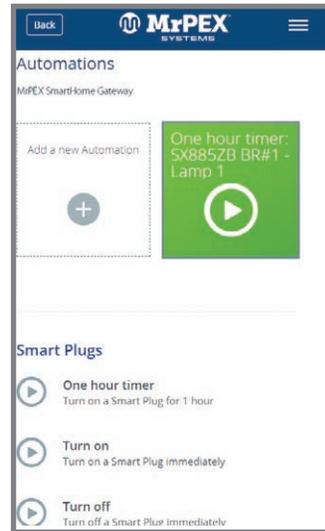
Configure Automated Commands



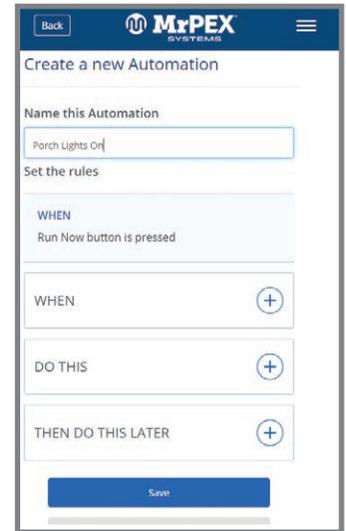
To set up an automation, choose "Add a new Automation" or choose a shortcut to one from the list of available automations.



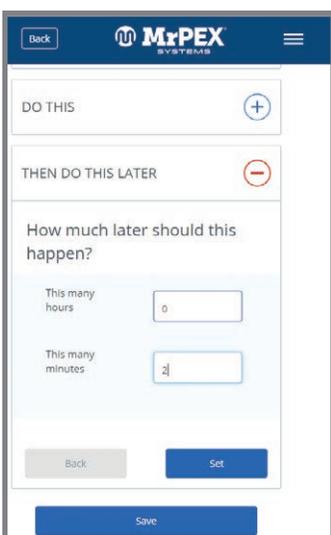
Example (choosing from list): Check the desired action and scroll down to press **Add Automation**. A tile for this automation will be pinned to your dashboard.



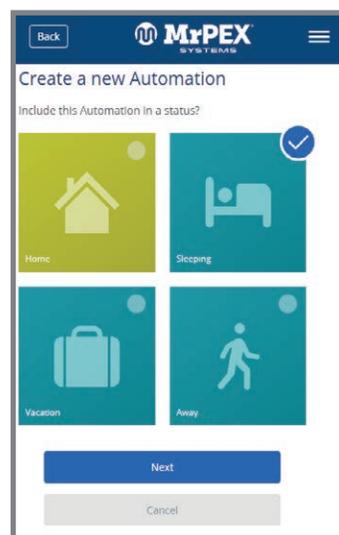
Example (Add a new Automation): Choose add a new Automation.



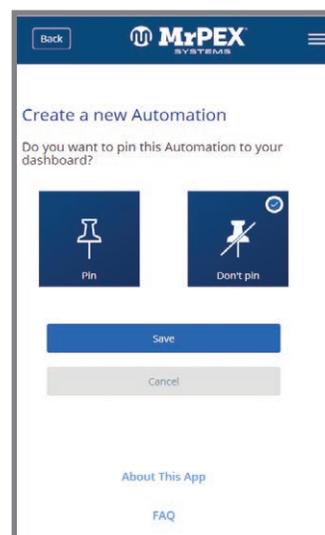
Name the Automation and choose conditions and criteria for the automation.



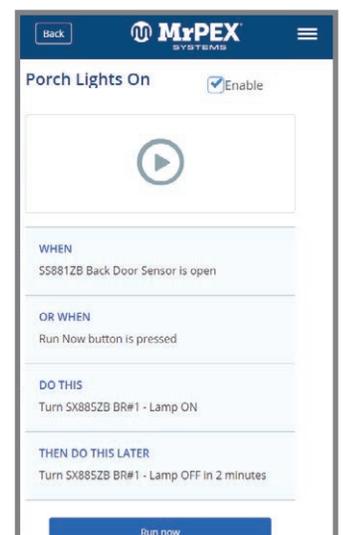
Additional criteria and timers may be added depending on the device chosen. Press **Save**.



If desired, choose the Status in which the automation is to be applied. Press **Next**.



Select preference for pinning the automation to the dashboard. Press **Save**.



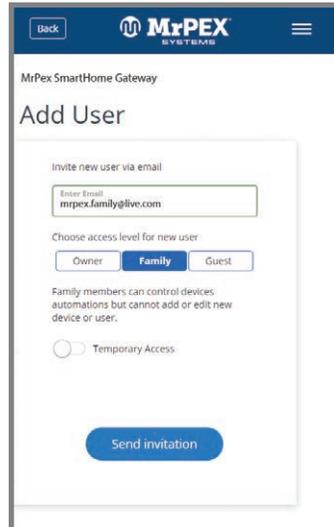
Review and test the automation using the **Run now** button.

USERS AND PERMISSIONS

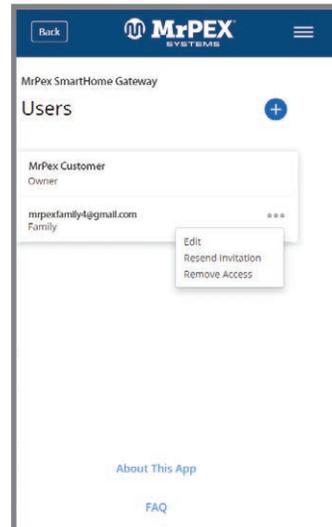
Add users and set permission levels



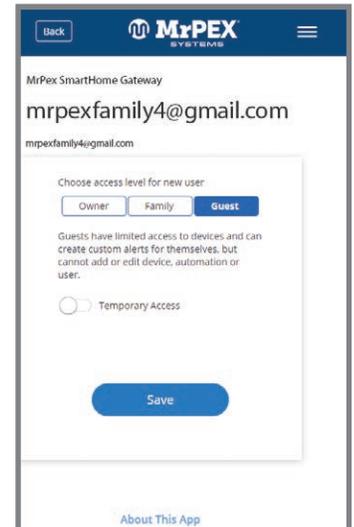
Click **+** to add a new user to your MrPEX® Smart Home System.



Enter an email address and choose access level for new user. Press **Send invitation**.



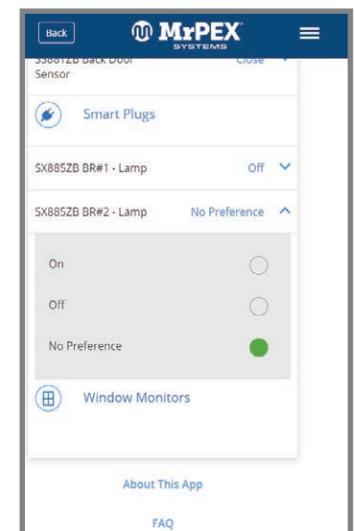
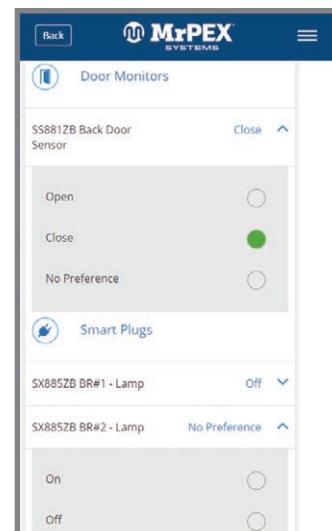
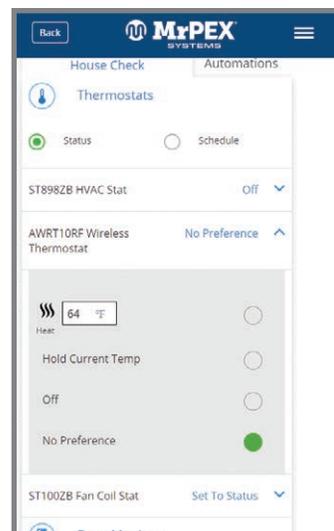
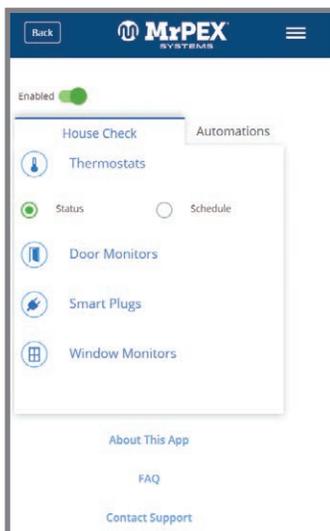
The new user and their access level are displayed. Select **...** to Edit, Resend Invitation or Remove Access for Users.



Update user level and press **Save**.

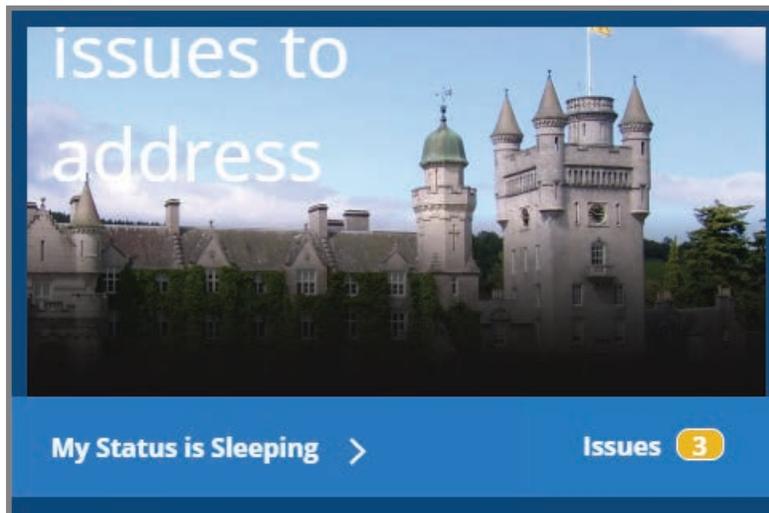
STATUS

For each Status (HOME, AWAY, SLEEPING, VACATION) choose the temperature setpoint and other parameters of the connected devices and equipment.

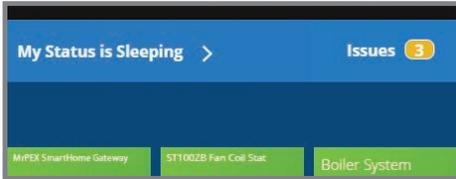


MESSAGE WINDOW

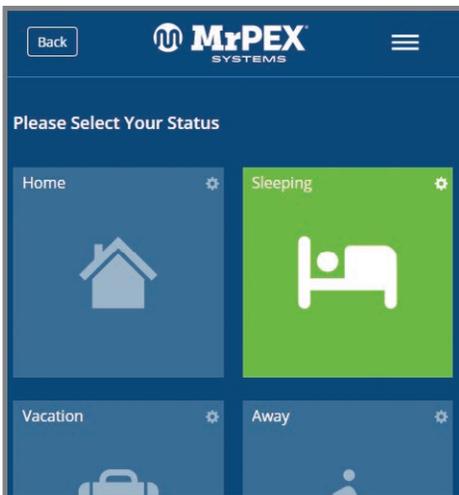
The message window can incorporate a custom photo if desired. In addition, prompts to address issues can be displayed here.



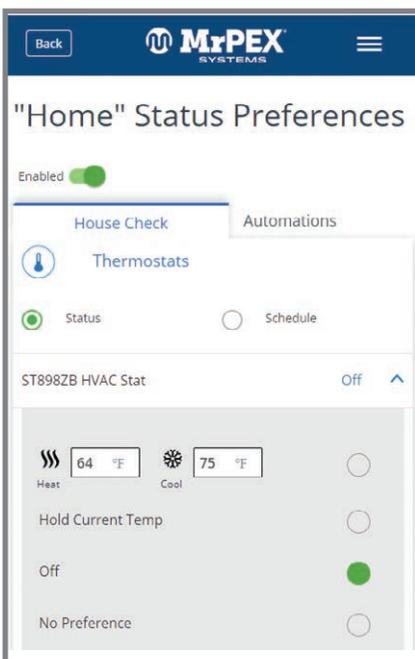
STATUS BAR



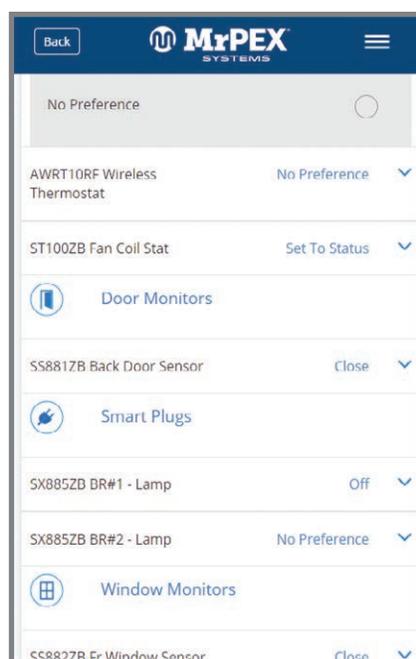
The status bar shows the current status of the system. By choosing Home, Sleeping, Vacation or Away, the user can change multiple settings at once.



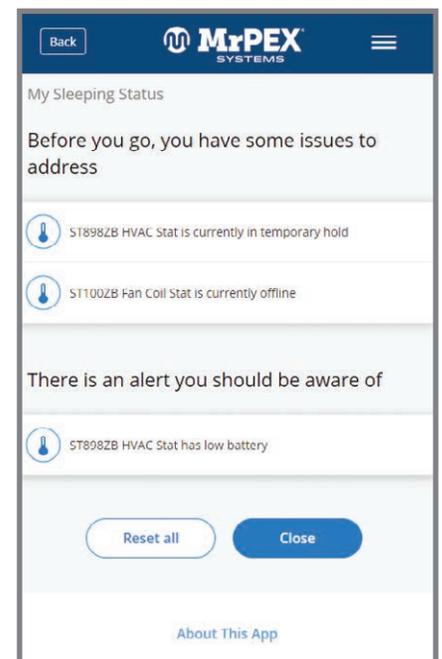
Clicking the bar showing "My Status is XXXX" allows the user to change the current status. Depending on the status settings, choosing a different status can make changes to temperature setpoints and other settings. For installations that don't follow a set schedule, this is an easy way to change many settings at once, based on the current status.



For thermostats, choose between Status and Schedule. Each thermostat allows options for Heat/Cool Temperature, Hold, Off or No Preference.



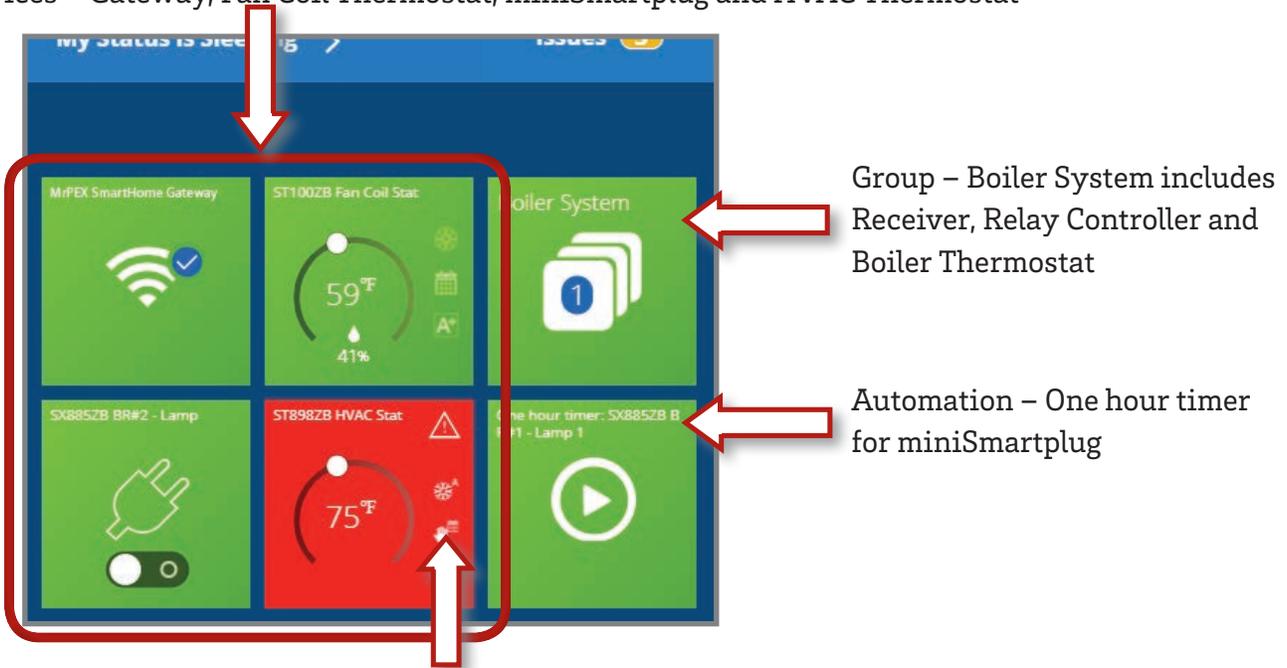
Window and door monitors set to "Close" will show an issue when open.



Clicking the **Issues 3** message will provide details about the issues.

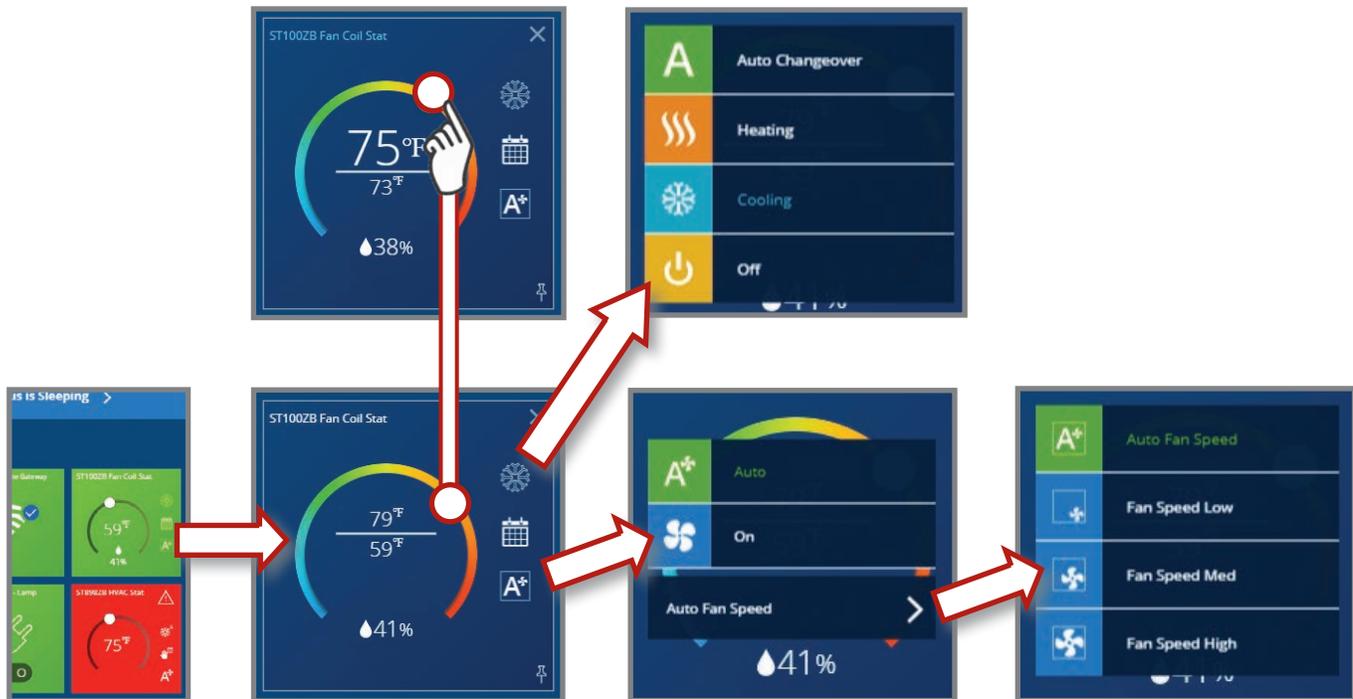
ICONS (DEVICE, GROUPS, AUTOMATIONS)

Devices – Gateway, Fan Coil Thermostat, miniSmartplug and HVAC Thermostat



 Current Error – Indicates a low battery on the HVAC Thermostat

DEVICE SETTINGS



ABOUT THIS APP

Choosing About This App displays version and release date information about the software application.



FAQ (FREQUENTLY ASKED QUESTIONS)

Clicking FAQ provides the latest information about topics that customers have asked about.

Your Dashboard

- What Does The Dashboard Do?
- Using Tiles
- Pinning Tiles
- Unpinning Tiles
- Changing Banner Picture

Connecting Gateways and Equipment

Managing Equipment

- Managing Equipment
- How Do I Remove a Piece of Equipment?
- What Are Equipment Categories?
- What Are Equipment Groups?
- How Do I Create a New Group?
- How Do I Review or Edit a Group?

[See all 27 articles](#)

Profiles

Passwords

- Resetting a Forgotten Password
- How Do I Change My Password?
- How Do I Log In To My Account?
- How Do I Log Out?
- Login Troubleshooting Tips

CONTACT SUPPORT

Choosing [Contact Support](#) from any screen will open your email application initiating direct communication with support@mrpexsystems.com.