



REMOTE CONNECT  
INSTALLATION & OPERATION  
INSTRUCTIONS



**⚠ WARNING**

This manual must only be used by a qualified heating installer / service technician. Read all instructions, including this manual, the Installation and Operation Manuals, and the Service Manuals, before installing. Perform steps in the order given. Failure to comply could result in severe personal injury, or substantial property damage.



Save this manual for future reference.

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## 1 Introduction

The information contained in this manual provides general guidelines for the implementation of the CON·X·US remote communication device with Lochinvar boilers.

Now from virtually anywhere you can:

- Monitor boiler plant operating conditions at unlimited locations
- Re-program SMART SYSTEM control parameters
- Setup custom text or e-mail alerts for contractor and building owners/managers

## 2 Wi-Fi Setup Instructions

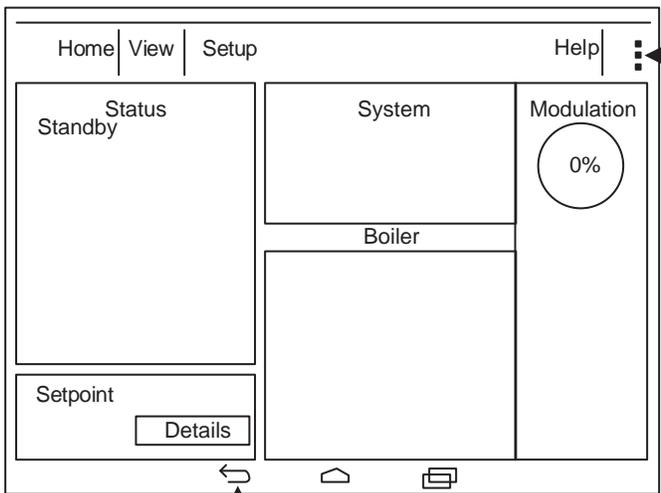
### Wi-Fi Setup:

Requires Wi-Fi connection with internet access.

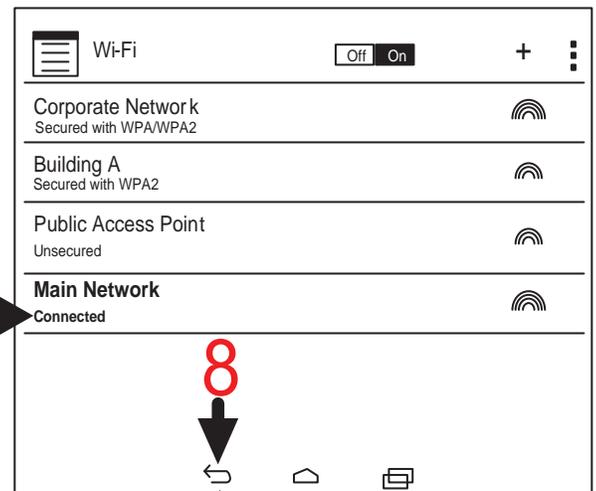
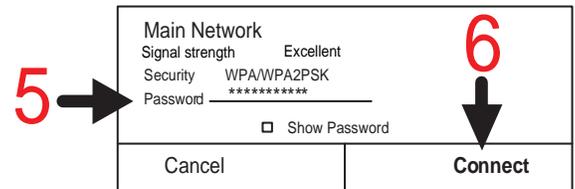
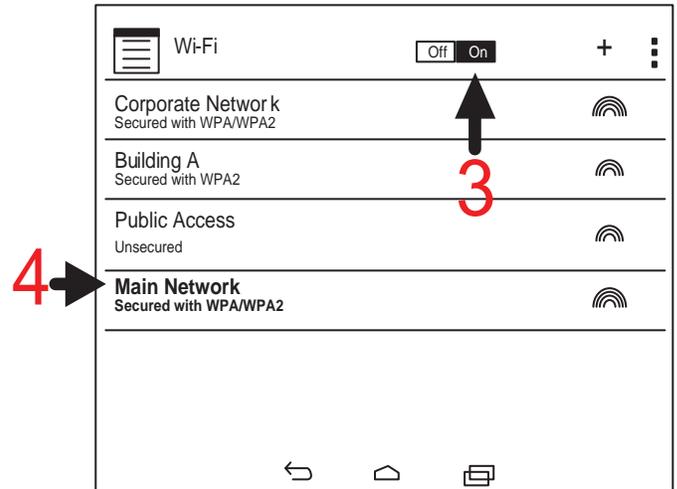
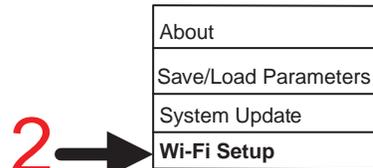
1. Press the three (3) dots in the upper right corner of the Display Screen.
2. Press Wi-Fi Setup.
3. Enable Wi-Fi by turning on the wireless access.
4. Select the desired network from the available networks.
5. Enter the network password as required.
6. Press Connect to connect to the network.
7. Observe network is connected before proceeding.
8. Press the Return Arrow at the bottom of the screen to return to the CON•X•US program.

**NOTICE** The screens depicted in this manual are to be used for illustration purposes only.

### Wi-Fi Setup - Procedure



:RETURN KEY:



:RETURN KEY:

# 3 Internet Update Instructions

**Internet Update:**  
 Requires Wi-Fi connection with internet access.

1. Press the three (3) dots in the upper right corner of the Display Screen.
2. Press System Update and wait for System Update box to appear.
3. Under Internet Update, press Check for Updates.
4. If no updates are available, press the Return Arrow at the bottom of the Display Screen.
5. If updates are available, press "Yes" to install.
6. The Display Screen will show progress bar while updating.
7. Once complete, the system will reboot and the CON•X•US program will open.

## Internet Update - Procedure

**RETURN KEY:** ↵

- About
- Save / Load Parameters
- System Update**
- Wi-Fi Setup

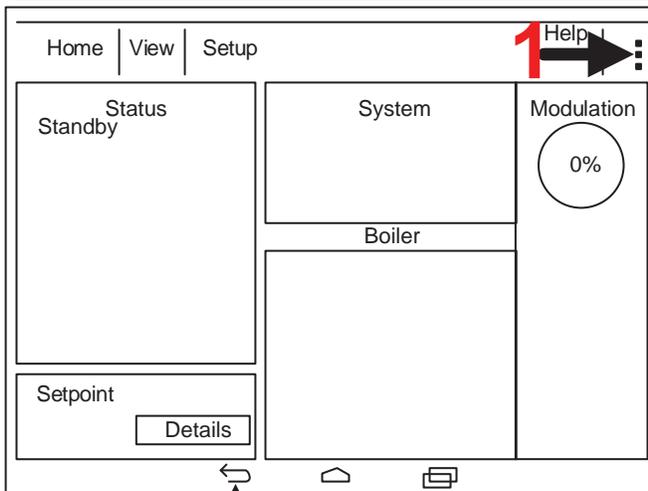
# 4 USB Flash Drive System Update Instructions

## USB Flash Drive Update:

Requires removal of upper and lower front doors to insert the USB flash drive into the USB port located to the left of the display panel. The USB flash drive must have factory provided update files pre-loaded.

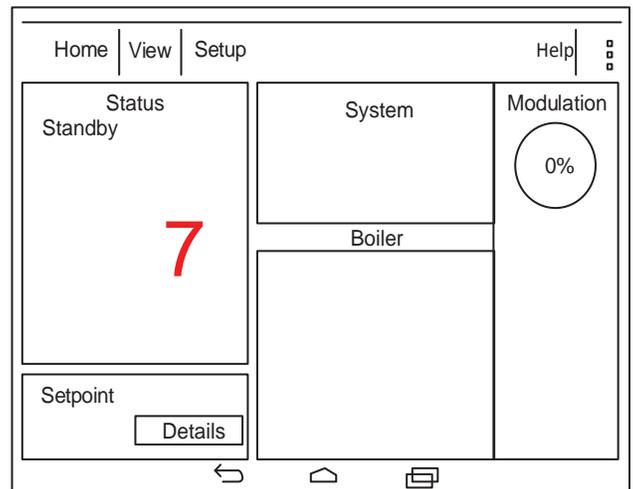
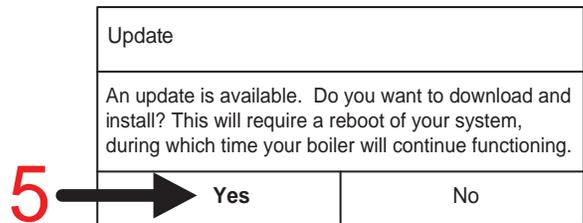
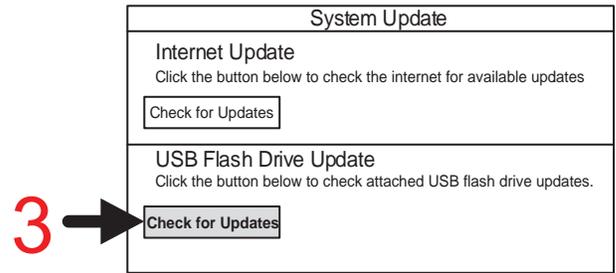
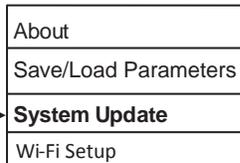
1. Press the three (3) dots in the upper right corner of the Display Screen.
2. Press System Update and wait for the System Update box to appear.
3. Under USB Flash Drive Update, press Check for Updates.
4. If no updates are available, press the Return Arrow at the bottom of the Display Screen.
5. If updates are available, press “Yes” to install.
6. The Display Screen will show progress bar while updating.
7. Once complete, the system will reboot and the CON•X•US program will open.

### USB Flash Drive Update - Procedure



RETURN KEY

2 →



## 5 CON·X·US Registration

1. Download the Android App on Google Play or the Apple App from the App Store.

**NOTICE**

To run the CON·X·US App on your device (Tablet/Phone) you must have a version of iOS 7.0 or above or Android 4.0 or above.

2. Once installation is complete, click on the CON·X·US App (logo) on your Tablet/Phone.

Figure 5-1\_Click on App



3. If you are a new user you will have to create a new account. If you have an existing account, move on to Step 6 on page 7.
4. To create a new account, open the CON·X·US App and click CREATE NEW ACCOUNT. You will receive an e-mail asking you to confirm your new account. **NOTE:** Be sure to check your Junk or Spam folders as your new account email may default to one of these folders. You will also be directed to a web page. This web page signifies you have completed the process. Exit the web page and move on to Step 5.

Figure 5-2\_Create Account/Login to Existing Account

The image displays two screenshots from the CON·X·US app. The top screenshot is the "Log in" screen, which has a light grey background. It features two input fields: "User Name:" with a placeholder "Enter User Name" and "Password:" with a placeholder "Enter Password". Below these is a toggle switch for "Save Information" which is currently turned off. At the bottom are two blue buttons: "Create New Account" and "Login". The bottom screenshot is the "New User Account" registration form. It has a light grey background and contains several input fields: "First Name:" (Required), "Last Name:" (Required), "Company:", "Address:", "City:", "State:", "Zip:", "Country:" (Required), "Phone:" (with a radio button for "Cell"), "E-Mail:" (Required), "Confirm E-Mail:" (Required), "Password:" (Required), and "Confirm Password:" (Required). At the bottom right are two blue buttons: "Create" and "Cancel".

## 5 CON·X·US Registration *(continued)*

- After creating your account, login to register a CON·X·US board.
- Once you are logged in you will be directed to the Device Selection Screen. You can now register the unit by clicking on the REGISTER NEW DEVICE button.

NOTE: The unit, at some point, must have been connected to the internet before registration can occur.

**Figure 5-3\_Register New Device Button**

The screenshot shows the 'Select Device' interface. At the top, it says 'Select Device' and 'Devices registered under your User Account'. Below this is a 'Sort by:' dropdown menu with options for 'Site', 'Serial Number', and 'City'. The main content is a table with three columns: 'Boiler Name', 'Serial Number', and 'Address'. Each row represents a device with a radio button to its left. At the bottom of the screen, there are two buttons: 'Register New Device' and 'Log Out'. A blue callout box labeled 'Register button' has an arrow pointing to the 'Register New Device' button.

Boiler Name	Serial Number	Address
<input type="radio"/> Site: University Building: Gym Boiler: 3	L1234567892	123 Main Street Nashville, TN 37216
<input type="radio"/> Site: University Building: Library Boiler: 4	L1234567893	500 Palm Street Nashville, TN 37212
<input type="radio"/> Site: University Building: Dorm Boiler: 7	L2234567895	2345 Burkle Road Nashville, TN 37201
<input type="radio"/> Site: University Building: Hospital Boiler: 17	L4234567897	34 White Street Nashville, TN 37228
<input type="radio"/> Site: University Building: Cafeteria	L2234567898	456 Washington Blvd Nashville, TN 37217

- There are required fields on the Device Registration Screen. Ensure ALL required fields are filled in.

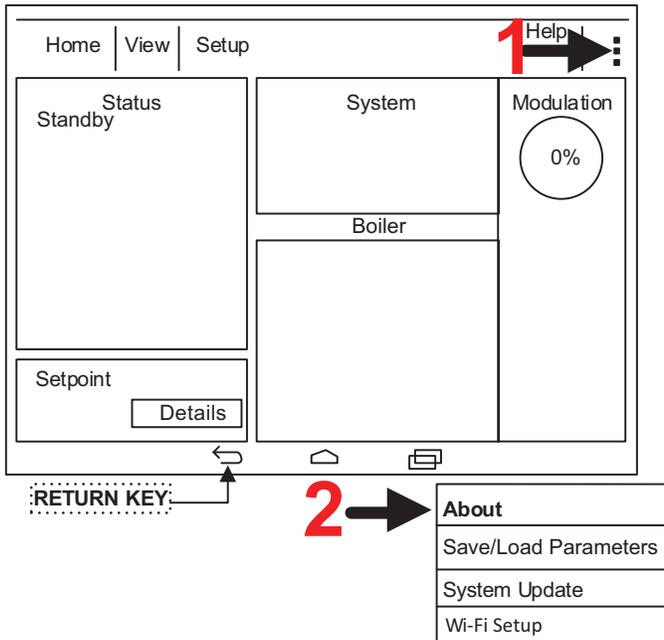
**Figure 5-4\_Fill in Required Fields**

The screenshot shows the 'Device Registration' screen. It features several input fields and buttons. On the left side, there are two 'Scan' buttons for 'QR Code on Herald' and 'Barcode on Boiler'. Below these are input fields for 'Site Name', 'Building/Location', and 'Boiler Name'. On the right side, there are input fields for 'Address', 'City', 'State', and 'Zip'. At the bottom, there are two buttons: 'Register' and 'Cancel'. The 'Required' label is present next to the QR Code on Herald, Barcode on Boiler, and Site Name fields.

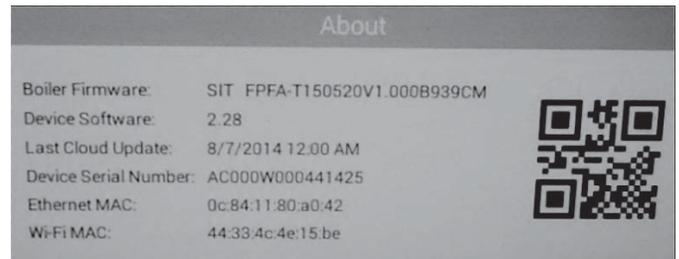
# 5 CON·X·US Registration

NOTE: You can use the SCAN buttons to fill in the QR code (reference FIG.'s 5-5 and 5-6 for QR Code Screen location) on the CON·X·US interface display and the serial number of the unit or you can enter them manually.

**Figure 5-5\_QR Code Screen Location**



**Figure 5-6\_QR Code About Screen**



**Figure 5-7\_Scan Buttons**

### Device Registration

QR Code on Herald:

Barcode on Boiler:

Site Name:  Address:

Building/Location:  City:

Boiler Name:  State:  Zip:

Scan buttons for QR code and serial number

## 5 CON·X·US Registration *(continued)*

- When you are finished filling in the fields, click the REGISTER button.

**Figure 5-8**\_Register Button

**Device Registration**

QR Code on Herald:

Barcode on Boiler:

Site Name:  Address:

Building/Location:  City:

Boiler Name:  State:  Zip:

Register button

- Once registration has been completed, you will be re-directed to the Device Selection Screen. You are now able to select the unit to monitor and change parameters with the App at this time.

**Figure 5-9**\_Select Device

**Select Device**

Devices registered under your User Account

Sort by:

Boiler Name	Serial Number	Address
<input type="radio"/> Site: University Building: Gym Boiler: 3	L1234567892	123 Main Street Nashville, TN 37216
<input type="radio"/> Site: University Building: Library Boiler: 4	L1234567893	500 Palm Street Nashville, TN 37212
<input type="radio"/> Site: University Building: Dorm Boiler: 7	L2234567895	2345 Burkle Road Nashville, TN 37201
<input type="radio"/> Site: University Building: Hospital Boiler: 17	L4234567897	34 White Street Nashville, TN 37228
<input type="radio"/> Site: University Building: Cafeteria	L2234567898	456 Washington Blvd Nashville, TN 37217

Select the job  
you wish to  
view

## 6 Permissions

Whoever registers the CON·X·US will be assigned the role of Site Manager. As you register a CON·X·US your user information will be automatically populated in the site manager field. The Site Manager is responsible for assigning access to users for each site. As the Site Manager your contact information will be displayed in the “Site Manager” field on the “Service Notification” page of the setup tab (see FIG. 6-1).

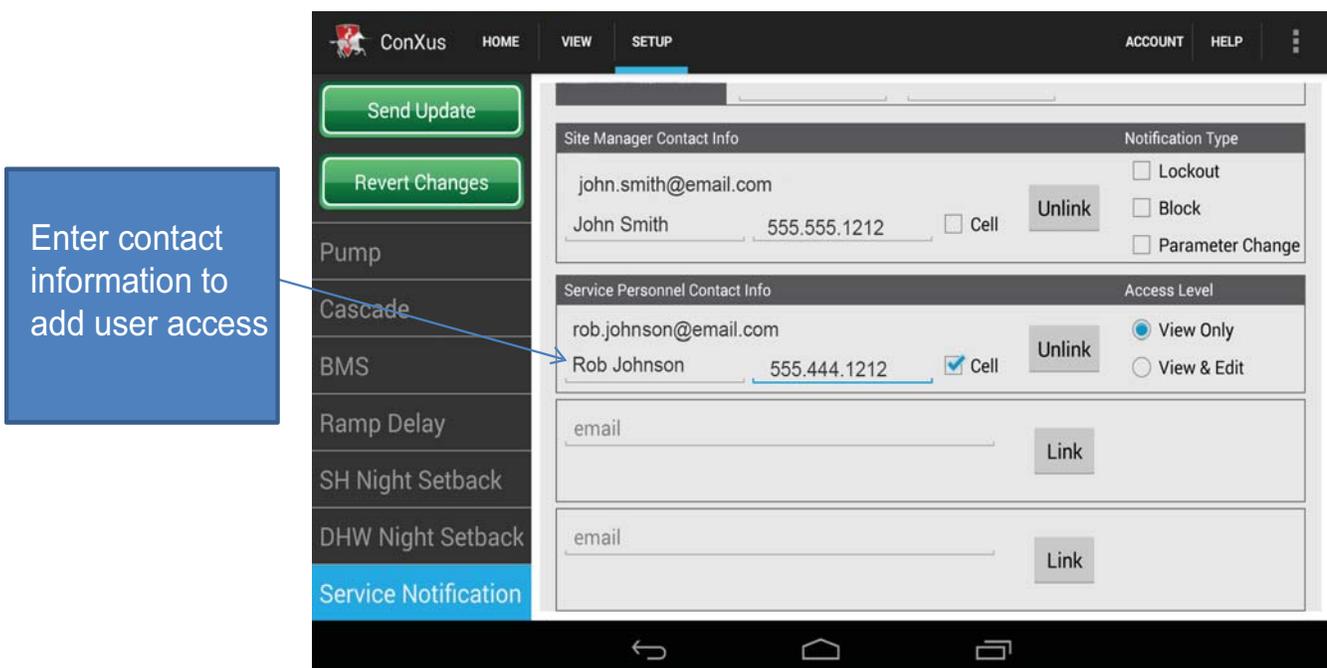
**Figure 6-1** Site Manager Contact Info



To add a user to a CON·X·US enabled boiler the user will need to create an account (reference the *Create Account* section on page 6 of this manual). Once the user that you wish to add has created an account, the Site Manager must enter the e-mail address into the Service Personnel Contact Info section of the Service Notification Menu and click the LINK button. This will grant access to the CON·X·US enabled boiler and will be populated on the user’s available devices list (reference Select Devices Screen on page 9 of this manual).

NOTE: The UNLINK button can be used to remove a user. If the Site Manager unlinks themselves, the CON·X·US will need to be re-registered.

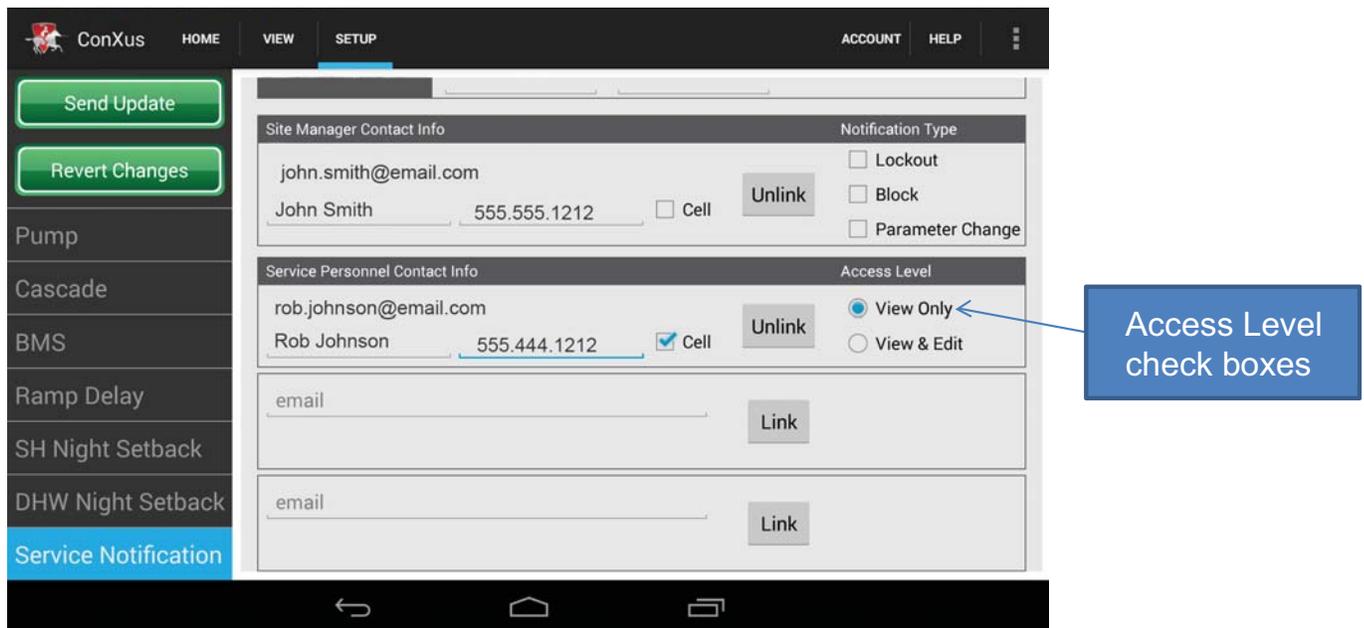
**Figure 6-2** Enter Contact Information to Add User Access



## 6 Permissions *(continued)*

For each service provider, the Site Manager can grant either “View Only” access or “View & Edit” access by clicking one of the boxes to the right of the service provider’s name. “View Only” access will allow that user to view all information without the ability to make any changes. If the Site Manager would like to have a user have “View Only” privileges, but receive alerts, the Site Manager must provide the user with “View & Edit” privileges to allow the user to set up the alerts. Once the setup is complete, the Site Manager can then change that user’s access level back to “View Only”. “View & Edit” access will allow that user to view all information and make programming changes.

**Figure 6-3** Access Levels



The Site Manager and any user with View & Edit privileges can select which alerts they receive. One, all, or none of these notification types can be selected. By selecting “Lockout” the Site Manager or user will receive a text or e-mail about a lockout condition. Selecting “Block” will result in an e-mail or text message any time the boiler enters a blocking condition. Blocking conditions are not lockouts, but are conditions such as high outlet temperature, high flue temperature, or high Delta T’s, that result in the boiler limiting itself. Blocking conditions can occur often depending on the operation conditions, but could also indicate a problem. Anti-cycling Blockings are not relayed. Selecting “Parameter Change” will result in an e-mail or text message every time a parameter is changed remotely from CON·X·US or locally through the user interface on the boiler.

When a boiler with CON·X·US goes into a fault condition an alert will be sent out via e-mail or text message. A text message will be sent if a cell phone number is entered and the cell box is checked (see FIG. 6-4 on page 12). Otherwise, the user will receive an e-mail.

**NOTE:** Only the Site Manager is able to see all linked personnel. All other personnel will only see the Site Manager.

## 6 Permissions

Figure 6-4 Enter Cell Phone Info

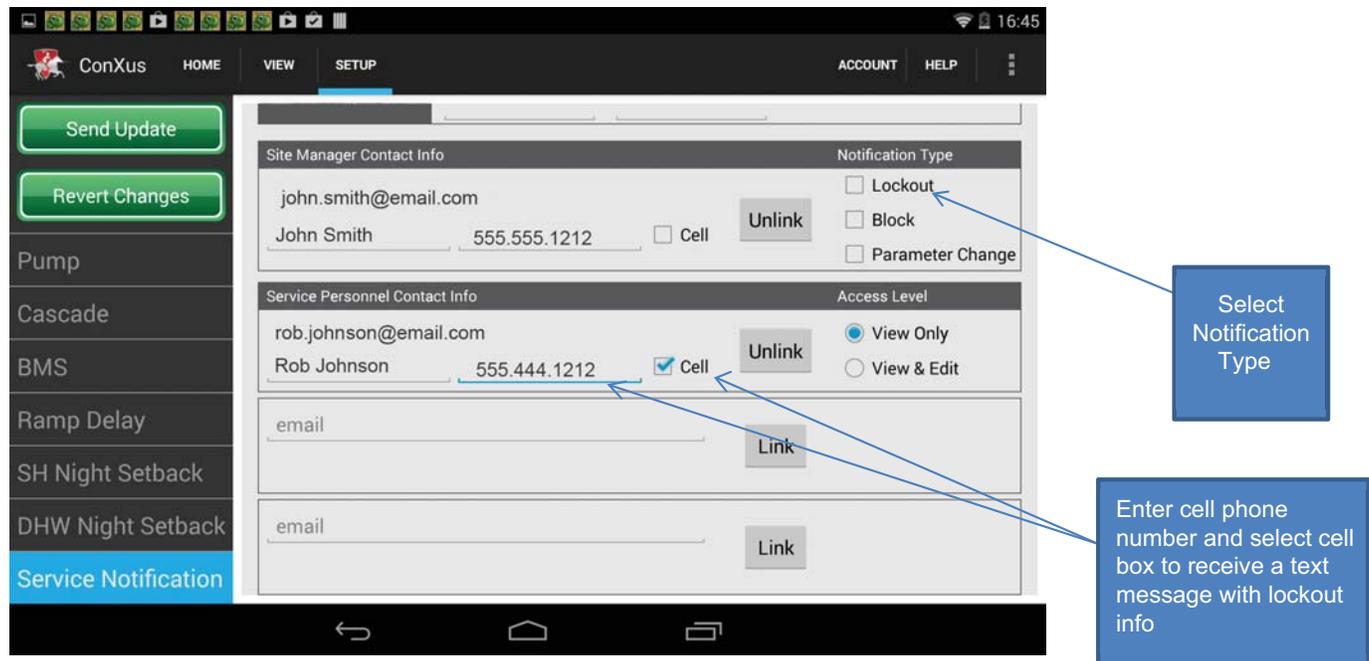
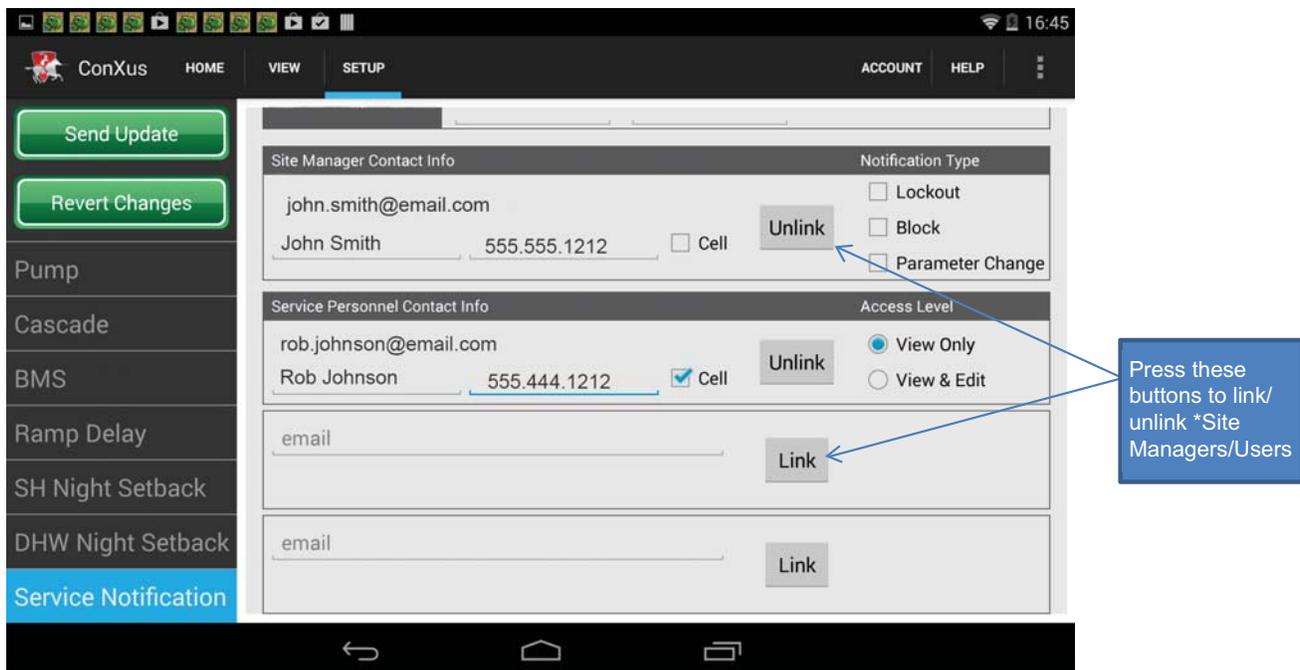


Figure 6-5 Link/Unlink Buttons

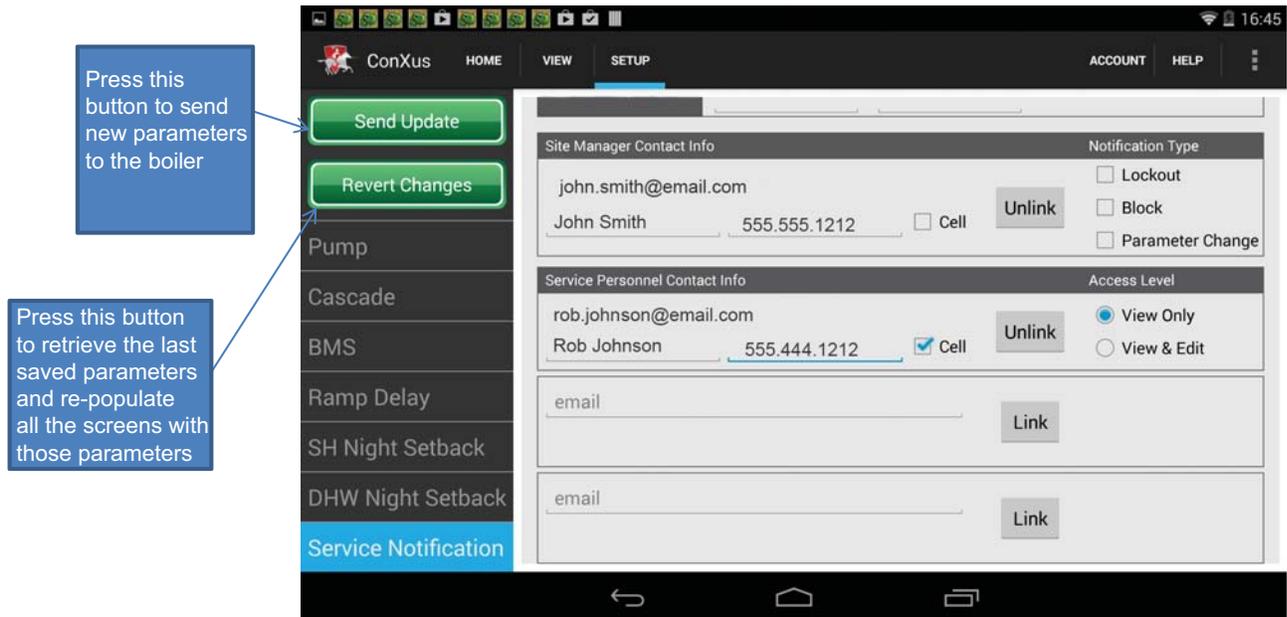


\*Site Manager can unlink all if unlinked.

## 6 Permissions *(continued)*

By accessing the Setup tab, the Site Manager and any user with “View and Edit” privileges will be able to make changes to all accessible parameters and send the parameters to the boiler. To send parameters to the boiler simply click the SEND UPDATE button. The REVERT CHANGES button will retrieve the last saved parameters and re-populate all the screens with those parameters.

**Figure 6-6** Send New Parameters to Boiler



## 6 Permissions

### How to use the sort function

By clicking on the ACCOUNT button you will be taken to a list of all the boilers registered to the Account Manager or user. You can access any boiler on the list by selecting the desired boiler. The sort function can be used to sort the list of boilers by serial number, city, or site name.

If a boiler is gray, this means it is not communicating with the internet. This could mean that the boiler is powered OFF or that the CON-X-US module is not connected to the internet.

**Figure 6-7** Sort Function

The screenshot displays the 'Select Device' screen in the ConXus mobile application. The screen shows a list of devices registered under the user's account, sorted by serial number. The table below contains the following data:

Boiler Name	Serial Number	Address
Site: University Building: Gym Boiler: 3	L1234567892	123 Main Street Nashville, TN 37216
Site: University Building: Library Boiler: 4	L1234567893	500 Palm Street Nashville, TN 37212
Site: University Building: Dorm Boiler: 7	L2234567895	2345 Burkle Road Nashville, TN 37201
Site: University Building: Hospital Boiler: 17	L4234567897	34 White Street Nashville, TN 37228

Annotations in the image include:

- A blue box on the left with the text "Select Desired Boiler" and an arrow pointing to the first row of the table.
- A blue box on the right with the text "Use sort function for ease of viewing available boilers" and an arrow pointing to the "Sort by: Serial Number" dropdown menu.

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# Notes

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.

This Class A digital apparatus complies with Canadian ICES-003.  
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.