TSS-770 and TSS-1070

7 in. and 10.1 in. Room Scheduling Touch Screens

Product Manual

Crestron Electronics, Inc.

Original Instructions

The U.S. English version of this document is the original instructions.

All other languages are a translation of the original instructions.

Regulatory Models: M201923001, M201923002, M201923003

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Contents

Introduction

The Crestron® TSS-770 and TSS-1070 are wall mount touch screens designed specifically for room scheduling applications. The touch screens install near the entrance of a meeting room or huddle space to provide a clear indication of the room availability and schedule, and they integrate seamlessly with a variety of popular scheduling services.

> **NOTE:** The TSS-770 and TSS-1070 are functionally similar. For simplicity within this guide, the term "touch screen" is used except where otherwise noted.

For more information on the TSS-770 and TSS-1070, refer to the TSS-770 and TSS-1070 Quick Start (Doc. 8743).
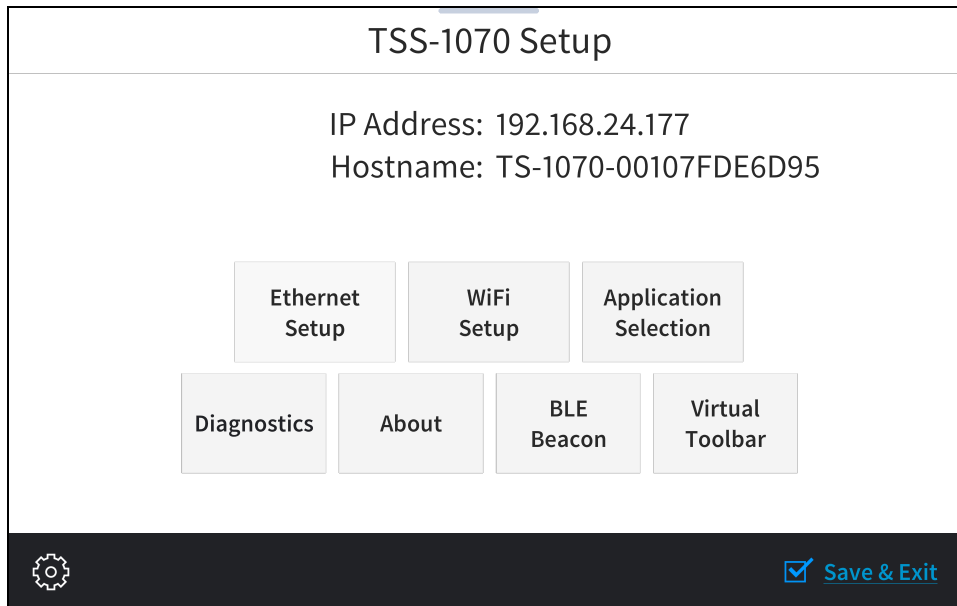
Access the Setup Screens

The setup screens enable basic configuration prior to regular operation of the touch screen.

To access the touch screen's built-in setup screens during regular operation, place five fingers on the display and hold for 15 seconds.

The main Setup screen is displayed (TSS-770 shown).

TSS-770 Setup Screen

NOTE: The touch screen also provides a web configuration interface that may be used to view and configure various touch screen settings. For more information, refer to Web Configuration (on page 22).

The Setup screen shows the IP address and hostname of the touch screen and provides the following configuration selections:

- Buttons for Ethernet setup, application selection, Wi-Fi® network setup, diagnostics, Bluetooth® beacon configuration, and the virtual toolbar.
- An **About** button that provides information about the touch screen.

The functions of each button are detailed in the following pages of this guide.

NOTE: A toolbar is present on the bottom of all setup screens. The toolbar provides a gear button ⚙ that may be tapped to return to the Setup screen and a **Save & Exit** button that may be tapped to save all settings, to exit the setup screens, and to return to the selected scheduling application.
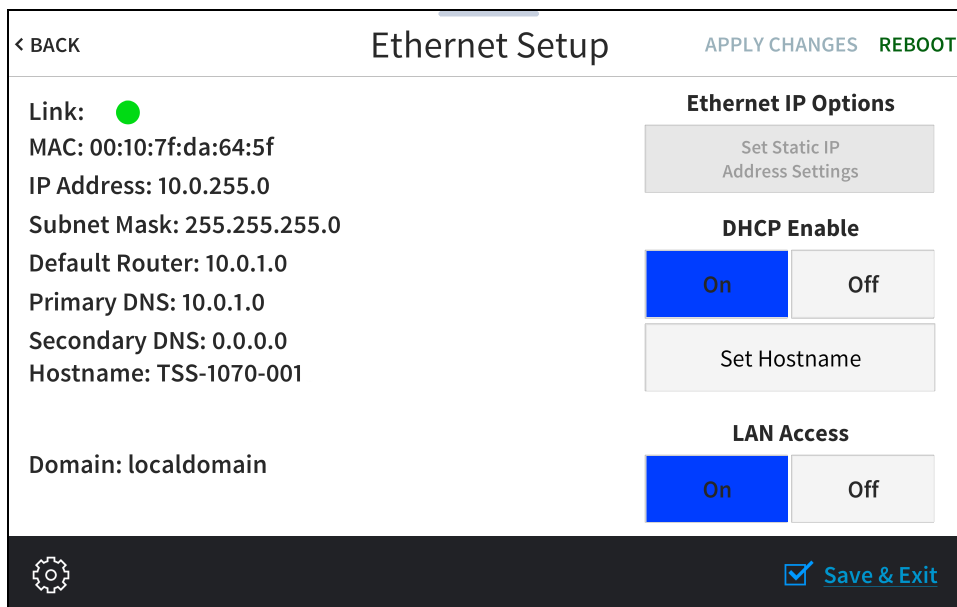
Local Configuration

Refer to the following sections for information about configuring the device locally using its setup screens.

Ethernet Setup

Tap **Ethernet Setup** on the Setup screen to display the **Ethernet Setup** screen.

Ethernet Setup Screen

Use the Ethernet Setup screen to view the touch screen MAC and IP addresses, subnet mask address, default router address, primary and secondary DNS addresses, hostname, and domain. A **Link** indicator is provided to indicate the status of the Ethernet connection. (Green indicates that the Ethernet connection is active.)

The following buttons are provided for configuring Ethernet settings:

- Tap **On** or **Off** under **LAN Access** to turn the Ethernet adapter on or off. If **LAN Access** is set to **Off**, Ethernet will not function and a Wi-Fi connection can be established.

- Tap **On** or **Off** under **DHCP Enable** to turn DHCP (dynamic host configuration protocol) on or off.

   NOTE: DHCP is enabled on the touch screen by default.

- If DHCP is turned off, tap **Set Static IP Address Settings** to enter static IP addresses manually.

- Tap **Set Hostname** to enter a new touch screen hostname using an on-screen keyboard.

- Tap **APPLY CHANGES** to apply any new Ethernet settings to the touch screen and to stay in setup mode.

- Tap **REBOOT** to exit setup mode and reboot the touch screen.

To change a static IP address, tap **Off** under **DHCP Enable**. Then, tap **Set Static IP Address Settings** to display the **Static IP Ethernet Setup** screen.

Static IP Ethernet Setup Screen

To edit the static IP address, the static subnet mask, the static default router, the preferred DNS, or the alternate preferred DNS, tap the text field underneath the setting name.

The on-screen numeric keypad opens for the chosen setting.

Edit IP Address On-Screen Numeric Keypad

- Use the keypad to make a new entry.

- Tap the clear button ⊠ in the text field to clear any previous entry.

- Tap the delete button ⊗ to delete the last digit.

- Tap **Save** to save a new entry or tap **< CANCEL** to discard any changes. The display returns to the **Static IP Ethernet Setup** screen.

After new settings have been saved, tap **APPLY CHANGES** on the **Static IP Ethernet Setup** screen to apply the new settings and stay in setup mode. Tap **REBOOT** to exit setup mode and reboot the touch screen.

Tap **< BACK** to return to the **Ethernet Setup** screen.

Tap **< BACK** on the **Ethernet Setup** screen to return to the Setup screen.

Application Selection

Tap **Application Selection** on the Setup screen to display the **Application Setup** screen.

Application Setup Screen
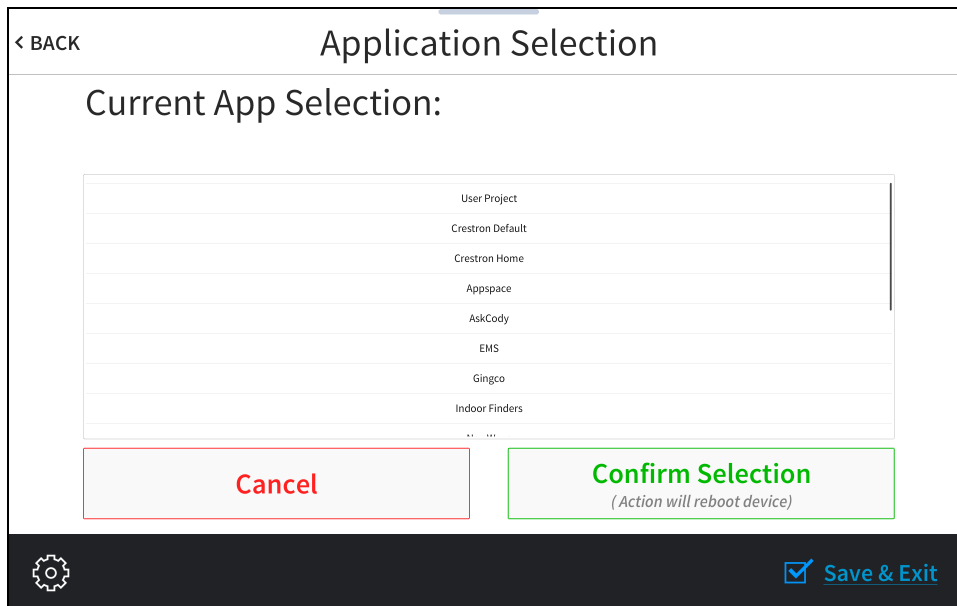
Use the **Application Selection** screen to select a scheduling application from the available selections. Swipe up or down through the list, and then tap an application to select it. Tap **Confirm Selection** to confirm the selection or tap **Cancel** to return to the previous screen. Once confirmed, the touch screen reboots with the new application running.

> **NOTE:** Each application uses a unique setup procedure for registering and configuring the application. For more information on setting up each application, refer to Application Selection (on page 55).

Tap **< BACK** to return to the Setup screen.

Wi-Fi Setup

Tap **Wi-Fi Setup** on the Setup screen to display the **Wi-Fi Setup** screen.

Wi-Fi Setup Screen

Use the Wi-Fi Setup screen to view the Wi-Fi network MAC and IP addresses, subnet mask address, default router address, primary and secondary DNS addresses, hostname, domain, and various details about the Wi-Fi connection. A **Link** indicator is provided to indicate the status of the Wi-Fi connection. (Green indicates that the Wi-Fi connection is active.)

> **NOTE:** Ethernet must be disabled before a Wi-Fi connection can be configured.

The following buttons are provided for configuring Wi-Fi settings:

- Tap **On** or **Off** under **Wi-Fi Access** to turn the Wi-Fi adapter on or off. If **Wi-Fi Access** is set to **Off**, Wi-Fi will not function and an Ethernet connection can be established.
- Tap **On** or **Off** under **DHCP Enable** to turn DHCP (dynamic host configuration protocol) on or off.

> **NOTE:** DHCP is enabled on the touch screen by default.

- If DHCP is turned off, tap **Set Static IP Address Settings** to enter static IP addresses manually.
- Tap **Set Hostname** to enter a new touch screen hostname using an on-screen keyboard.
- Tap **APPLY CHANGES** to apply any new Wi-Fi settings to the touch screen and to stay in setup mode.
- Tap **REBOOT** to exit setup mode and reboot the touch screen.

To change a static IP address, tap **Off** under **DHCP Enable**. Then, tap **Set Static IP Address Settings** to display the **Wi-Fi Static IP Setup** screen.

Wi-Fi Static IP Setup Screen

To edit the static IP address, the static subnet mask, the static default router, the preferred DNS, or the alternate preferred DNS, tap the text field underneath the setting name.

The on-screen numeric keypad opens for the chosen setting.

Edit IP Address On-Screen Numeric Keypad

- Use the keypad to make a new entry.

- Tap the clear button ⊠ in the text field to clear any previous entry.

- Tap the delete button ⊗ to delete the last digit.

- Tap **Save** to save a new entry or tap **< CANCEL** to discard any changes. The display returns to the **Static IP Ethernet Setup** screen.

After new settings have been saved, tap **APPLY CHANGES** on the **WiFi Static IP Setup** screen to apply the new settings and stay in setup mode. Tap **REBOOT** to exit setup mode and reboot the touch screen.
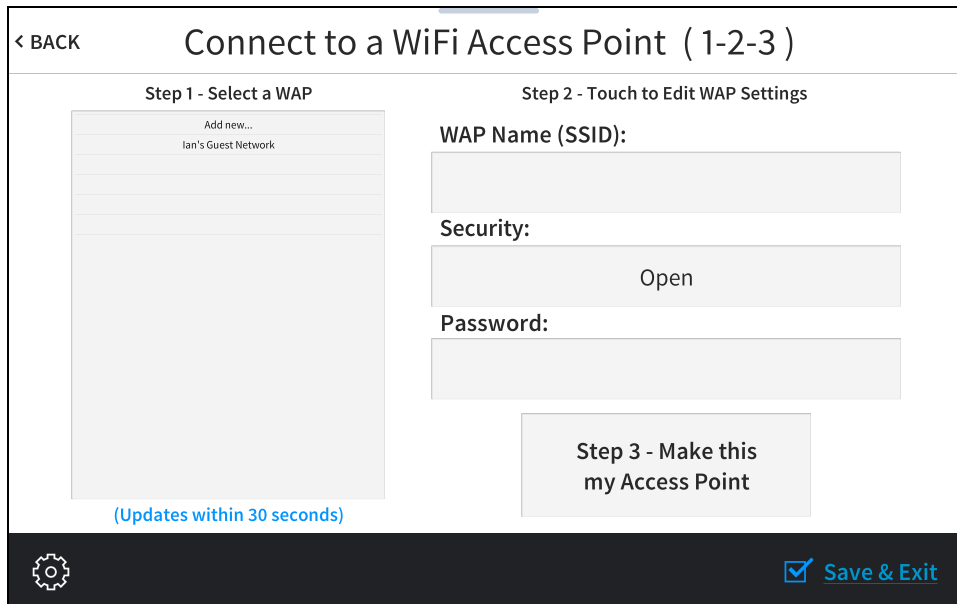
Tap **< BACK** to return to the **Wi-Fi Setup** screen.

Tap **< BACK** on the **Wi-Fi Setup** screen to return to the Setup screen.

Select a Wi-Fi Access Point

On the **Wi-Fi Setup** screen, tap **Select Wi-Fi Access Point**. The **Connect to a Wi-Fi Access Point (1-2-3)** screen is displayed.

Connect to a Wi-Fi Access Point (1-2-3) Screen

Use the **Connect to a Wi-Fi Access Point (1-2-3)** screen to connect the touch screen to an existing WAP that is in range or to configure a new WAP. Any WAPs that are in range and discoverable are displayed under **Step 1 - Select a WAP** upon successful discovery.

To set up a Wi-Fi network connection:

1. Select the desired WAP from the options shown underneath **Step 1 - Select a WAP**. If the desired WAP is not shown, tap **Add New**.

   > **NOTE:** The **WAP Name (SSID)** and **Security** fields are populated automatically when a discovered WAP is selected. This information must be entered manually when adding a new WAP.

2. Tap the **WAP Name (SSID)** text field to display an on-screen keyboard.

3. Enter or modify the WAP name if necessary, and then tap **SAVE**.

4. Tap the **Security** text field to display the **Wi-Fi Encryption Settings** screen.

   Wi-Fi Encryption Settings

   ‹ BACK   WiFi Encryption Settings

None	WEP

WPA-PSK AES	WPA-PSK TKIP	WPA2-PSK AES	WPA2-PSK TKIP

   ☑ Save & Exit
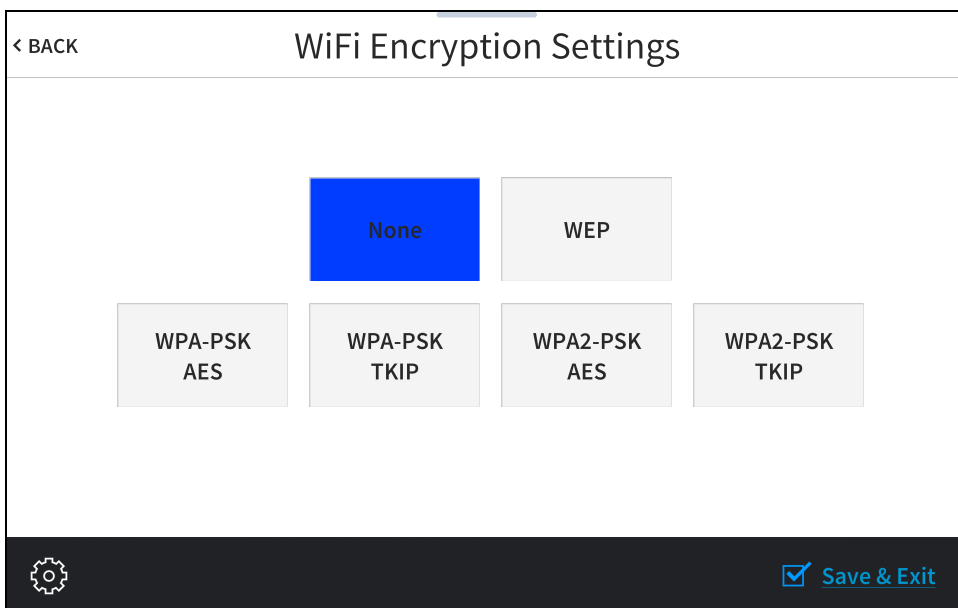
5. Tap the appropriate encryption type used by the WAP, and then tap **‹ BACK**.

6. Tap the **Password** text field to display an on-screen keyboard.

7. Enter the password used to connect to the WAP, and then tap **SAVE**.

8. Tap **Step 3 - Make this my Access Point**. The **Wi-Fi WAP Selection** screen is displayed.

The touch screen attempts to connect to the WAP using the provided credentials. If a connection is established, connection details for the WAP are shown with a green check mark to the left of **Current Connection**.

Wi-Fi WAP Selection Screen (Connection Successful)
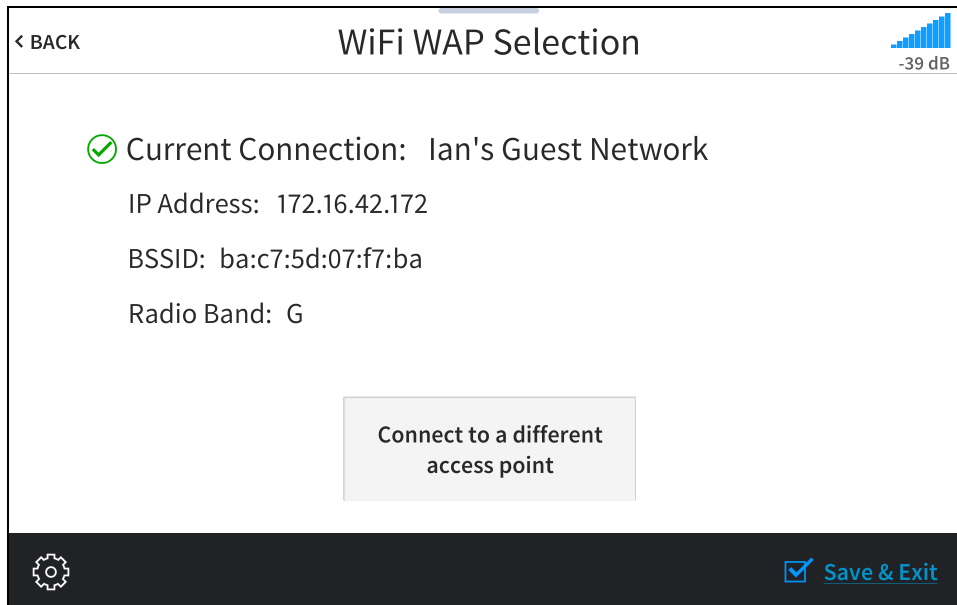
If the connection fails, a failure message is displayed. Tap **Connect to a different access point** to return to the **Connect to a Wi-Fi Access Point (1-2-3)** screen.

NOTE: If four WAPs have already been assigned, the **Wi-Fi WAP Selection** screen indicates that the WAP list is full. Tap **Delete an access point?** to display the **Manage Wi-Fi Access Points** screen, where an existing WAP may be deleted, or tap **< BACK** to cancel adding the new WAP. For more information, refer to Manage Wi-Fi Access Points (on the facing page).

Tap **< BACK** to return to the **Wi-Fi Setup** screen.

Manage Wi-Fi Access Points

On the **Wi-Fi Setup** screen, tap **Manage Wi-Fi Access Point**. The **Manage Wi-Fi Access Points** screen is displayed.

Manage Wi-Fi Access Points Screen
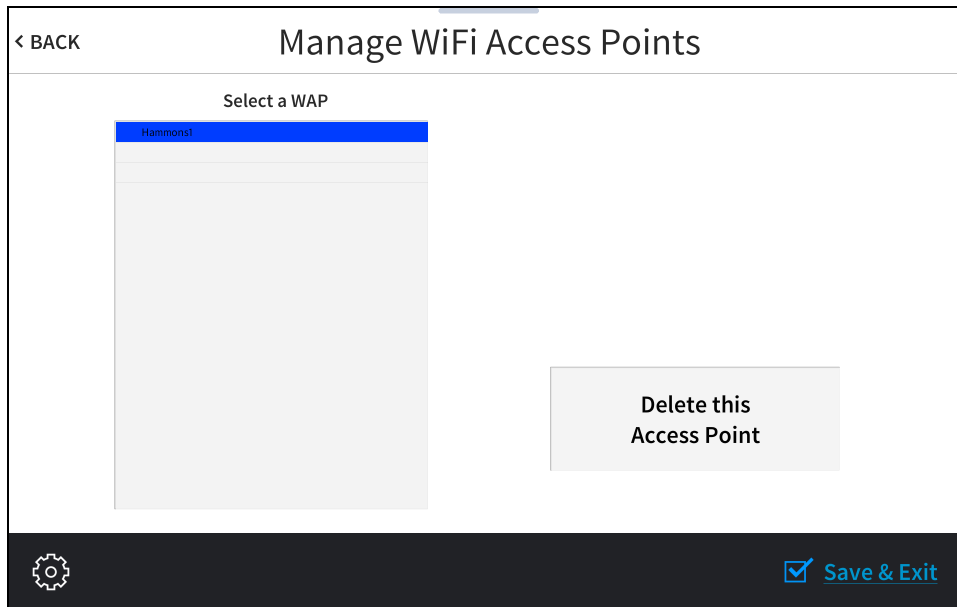
Use the **Manage Wi-Fi Access Points** screen to manage settings for up to four saved WAPs. Tap one of the listed WAPs to display controls to manage the WAP.

Tap **Delete this Access Point** to delete the selected WAP. If a WAP is deleted, it must be added back to the list using the procedures described in Select a Wi-Fi Access Point (on page 8).

Tap **< BACK** to return to the **Wi-Fi Setup** screen.

Bluetooth Beacon

Tap **BLE Beacon** on the Setup screen to display the **BLE Beacon** screen.

BLE Beacon Screen

Use the **BLE Beacon** screen to configure the built-in PinPoint™ proximity detection beacon. Using Bluetooth® technology, the beacon works with the Crestron App or Crestron PinPoint App to determine when a mobile device is in or near the same room as the beacon, and signals the mobile app to automatically display the appropriate controls and information for the room.

- Tap **On** or **Off** underneath **BLE Beacon** to turn the proximity beacon on or off, respectively.
- Tap **On** or **Off** underneath **Config Mode** to turn configuration mode on or off, respectively. Turning on configuration mode enables the proximity beacon to be configured.

NOTE: The proximity beacon and configuration mode cannot both be turned on at the same time.

Tap **< BACK** to return to the Setup screen.

Virtual Toolbar

Tap **Virtual Toolbar** on the Setup screen to display the **On-screen Toolbar** screen.

On-screen Toolbar Screen

	On-screen Toolbar	
‹ BACK		

Toolbar Enabled

On	Off

Toolbar Autohide Timeout

∧	5	∨

Toolbar Visibility

Show	Hide

Toolbar Theme

Light

Toolbar Buttons

Toolbar Buttons

Toolbar Positioning

Top	Bottom	Left	Right

☑ Save & Exit

Use the **On-screen Toolbar** screen to configure settings for the virtual toolbar. By default, the virtual toolbar can be accessed by swiping down on the tab located at the top of the screen and provides virtual buttons for power, home, lighting, up, down, and microphone. The toolbar is hidden automatically after a set timeout duration.

NOTE: Virtual button functionality can be custom programmed using a Crestron control system.

On-screen Toolbar Screen (with Virtual Toolbar)

‹ BACK	⏻ ⌂ ☀ ▲ ▼ 🎤

Toolbar Enabled **Toolbar Autohide Timeout**

On	Off	⋀	5	⋁

Toolbar Visibility **Toolbar Theme** **Toolbar Buttons**

Show	Hide	Light	Toolbar Buttons

Toolbar Positioning

Top	Bottom	Left	Right

⚙ ☑ Save & Exit
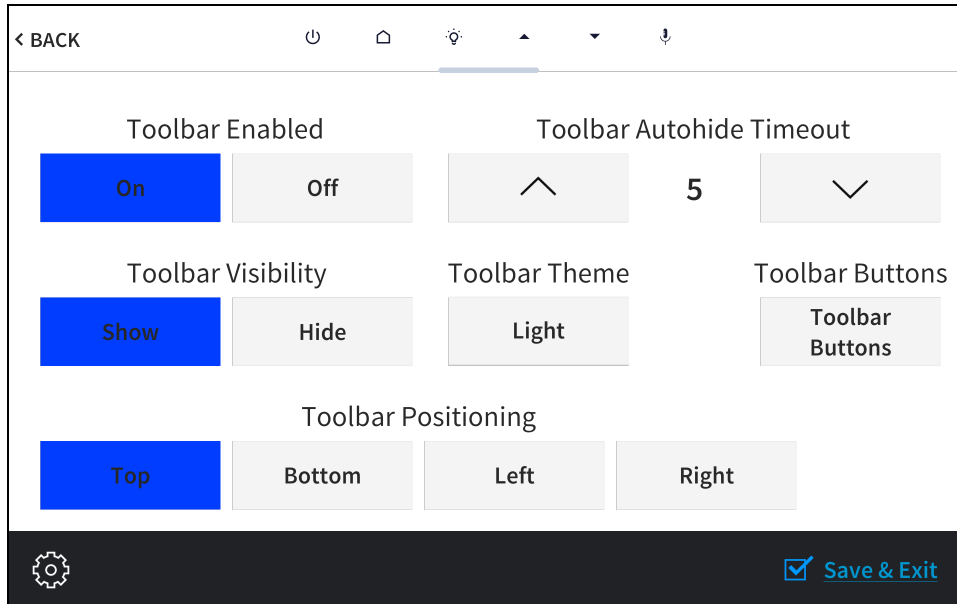
- Tap **On** or **Off** under **Toolbar Enabled** to turn the virtual toolbar on or off, respectively.

- Tap **Show** or **Hide** under **Toolbar Visibility** to have the toolbar exposed or hidden by default, respectively.

- Tap **Top**, **Bottom**, **Left**, or **Right** under **Toolbar Positioning** to place the toolbar on the respective location on the screen.

- Tap the up and down arrow buttons under **Toolbar Autohide Timeout** to increase or decrease the duration before the toolbar is automatically hidden from 0 to 600 seconds. Selecting "0" disables this behavior.

- Tap the button under **Toolbar Theme** to switch between a light and dark theme. The currently selected theme is displayed on the button.

- Tap **Toolbar Buttons** to display a screen for showing or hiding individual buttons in the virtual toolbar. Tap **On** or **Off** next to a button to show or hide the button, respectively.

On-screen Toolbar Screen - Toolbar Buttons
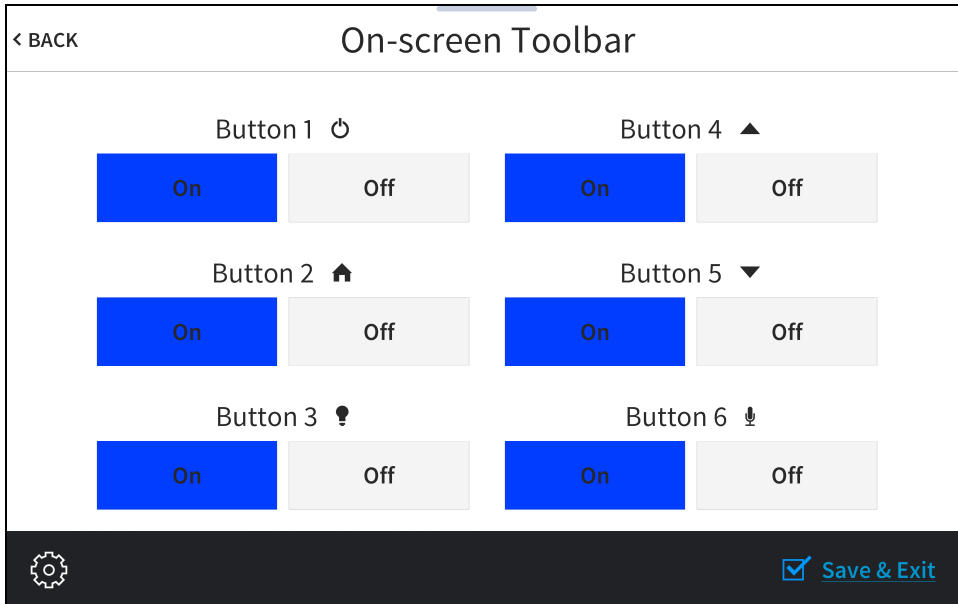
Tap **< BACK** to return to the Setup screen.

Diagnostics & Advanced

Tap **Diagnostics** on the Setup screen to display the **Diagnostics & Advanced** screen.

Diagnostics & Advanced Screen

```
‹ BACK            Diagnostics & Advanced

        CPU Statistics              Available Memory (kb)
   Temperature: 49 degrees (°c)          Total: 1919964
                                        Current: 800612


    ┌──────────────┐ ┌──────────────┐ ┌──────────────┐ ┌──────────────┐
    │ Test Patterns│ │  Touch Test  │ │   LAN Test   │ │   WiFi Test  │
    └──────────────┘ └──────────────┘ └──────────────┘ └──────────────┘



  ⚙                                              ☑ Save & Exit
```
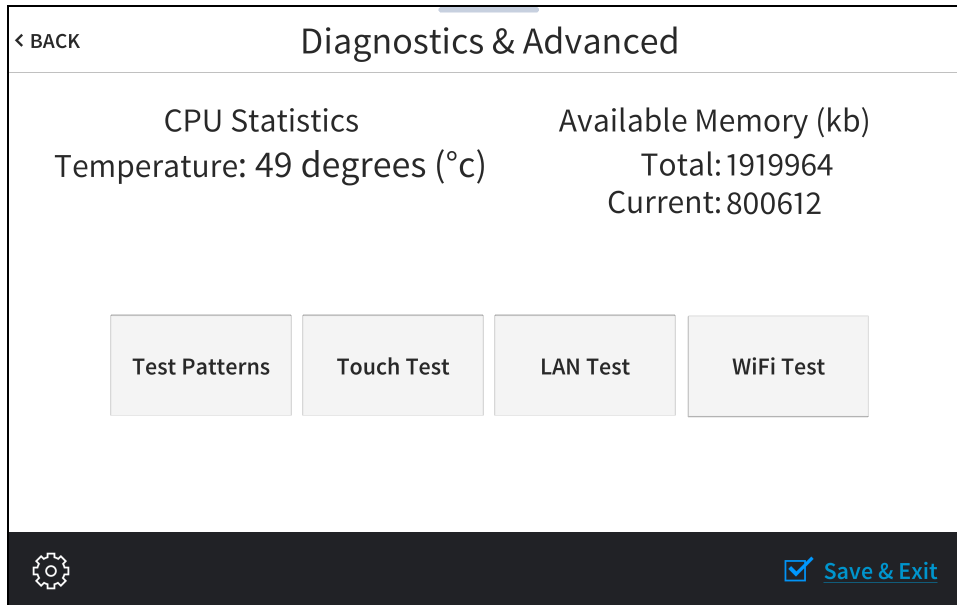
Use the **Diagnostics & Advanced** screen to access various diagnostic test screens for the touch screen. The **Diagnostics & Advanced** screen also provides the touch screen CPU temperature and available memory.

Each test screen is described in the sections that follow.

Test Patterns

Tap **Test Patterns** on the **Diagnostics & Advanced** screen to display the **Test Pattern Diagnostics** screen.

Test Pattern Diagnostics Screen
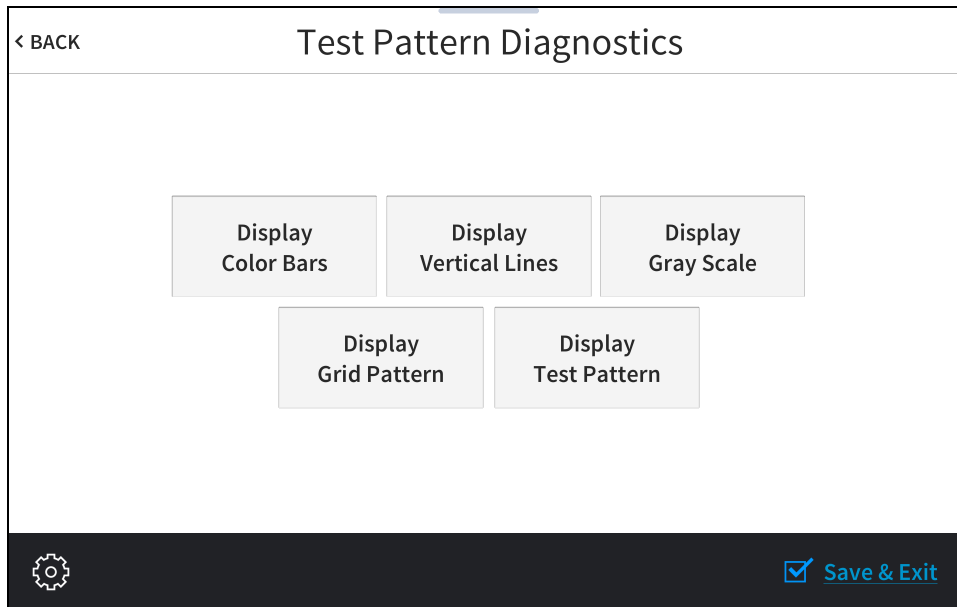
Use the **Test Pattern Diagnostics** screen to display any of the available test patterns. Tap one of the buttons on the screen to display its respective test pattern.

Tap **< BACK** to return to the **Diagnostics & Advanced** screen.

Touch Test

Tap **Touch Test** on the **Diagnostics & Advanced** screen to display the touch test screen.

Touch Test Screen

Use the touch test screen to test the touch functionality of the display. When a location button is tapped, its respective indicator lights on the screen.

Tap **RETURN** to return to the **Diagnostics & Advanced** screen.

LAN Test

Tap **LAN Test** on the **Diagnostics & Advanced** screen to display the **Ethernet Diagnostics** screen.

Ethernet Diagnostics Screen

‹ BACK

Ethernet Diagnostics

Current Ethernet Settings

Link: 🟢

MAC: 00:10:7f:da:64:5f
Subnet Mask: 255.255.255.0
Primary DNS: 10.0.1.1
Hostname: TSW-1070-IH1
Domain: localdomain

IP Address: 10.0.1.34
Default Router: 10.0.1.1
Secondary DNS:

Ping Default Router Test

| ON | OFF |

PING 10.0.1.1 (10.0.1.1) 56(84) bytes of data.
64 bytes from 10.0.1.1: icmp_seq=1 ttl=255 time=0....

☑ Save & Exit
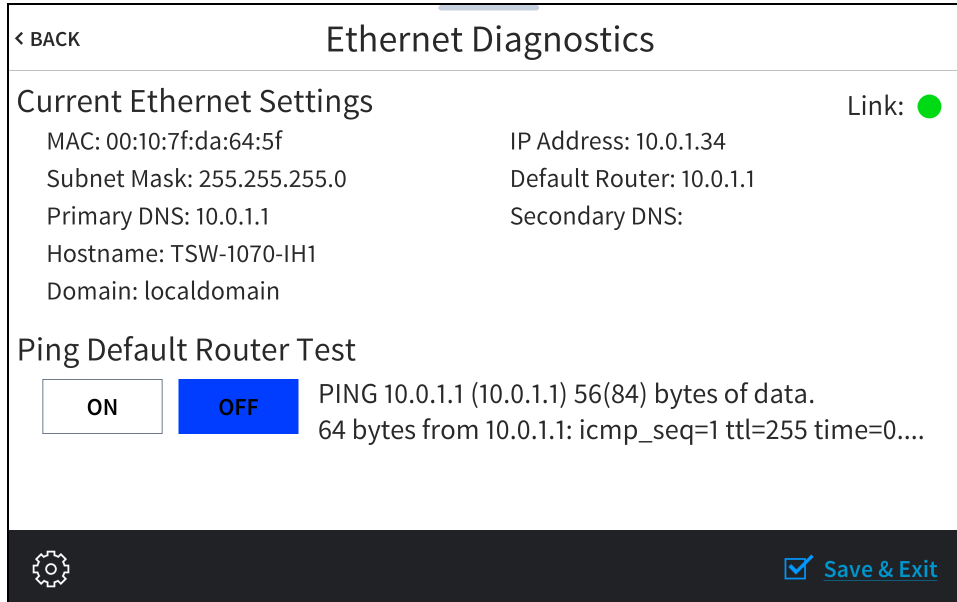
Use the **Ethernet Diagnostics** screen to view and test the Ethernet connection. The Ethernet Diagnostics screen displays the touch screen MAC and IP addresses, subnet mask address, default router address, primary and secondary DNS addresses, hostname, and domain name. A **Link** indicator is provided to indicate the status of the Ethernet connection. (Green indicates that the Ethernet connection is active.)

The **Ethernet Diagnostics** screen also provides controls to test the connection to the default router. Tap **On** to begin the test and **Off** to end the test.

During the router test, the touch screen pings the default router. If the router is communicating with the touch screen, connection data is displayed below the ping test controls within five seconds. The connection data updates after every successive ping.
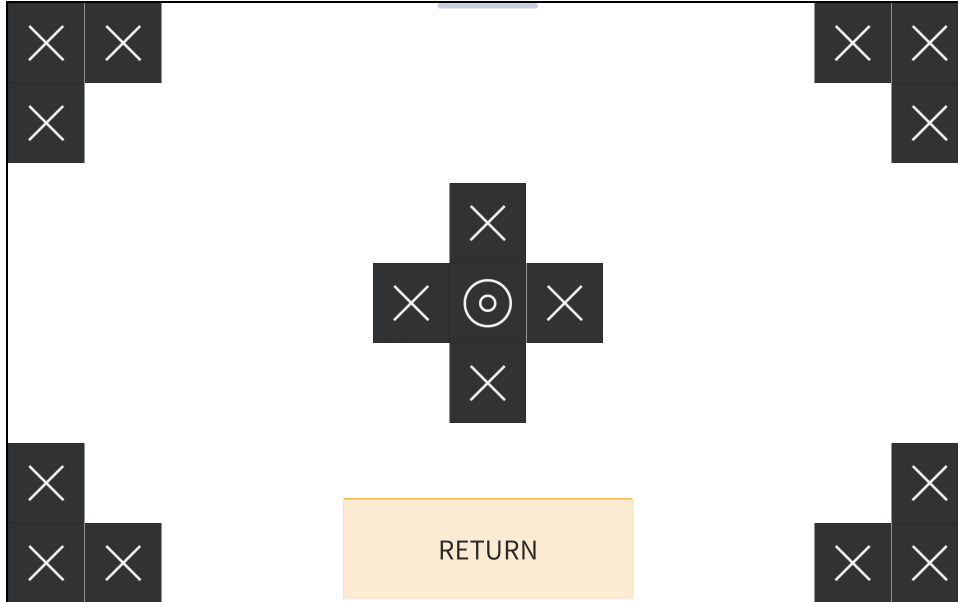
Tap **< BACK** to return to the **Diagnostics & Advanced** screen.

Wi-Fi Test

Tap **Wi-FiTest** on the **Diagnostics & Advanced** screen to display the **Wi-Fi Diagnostics** screen.

Wi-Fi Diagnostics Screen

```
‹ BACK                  WiFi Diagnostics

Current WiFi Settings                              Link: ●
    WiFi MAC: 00:00:00:00:00:00       IP Address: 10.0.1.6
    Subnet Mask: 255.255.255.0        Default Router: 10.0.1.1
    Primary DNS: 10.0.1.1             Secondary DNS:
    Hostname: 1070-00107FDA645F       Domain: localdomain
    SSID: Ham
    BSSID: b8:c7:5d:07:f7:f7          Signal Str: 100 %
    Radio Band: G                     RSSI: -21 dB

Ping Default Router Test

    [  ON  ]    [  OFF  ]


   ⚙                                        ☑ Save & Exit
```

Use the **Wi-Fi Diagnostics** screen to view and test the Wi-Fi network connection. The Ethernet Diagnostics screen displays the Wi-Fi network MAC and IP addresses, subnet mask address, default router address, primary and secondary DNS addresses, hostname, and domain name. A **Link** indicator is provided to indicate the status of the Wi-Fi network connection. (Green indicates that the Wi-Fi network connection is active.)

The **Wi-Fi Diagnostics** screen also provides controls to test the connection to the default router. Tap **On** to begin the test and **Off** to end the test.
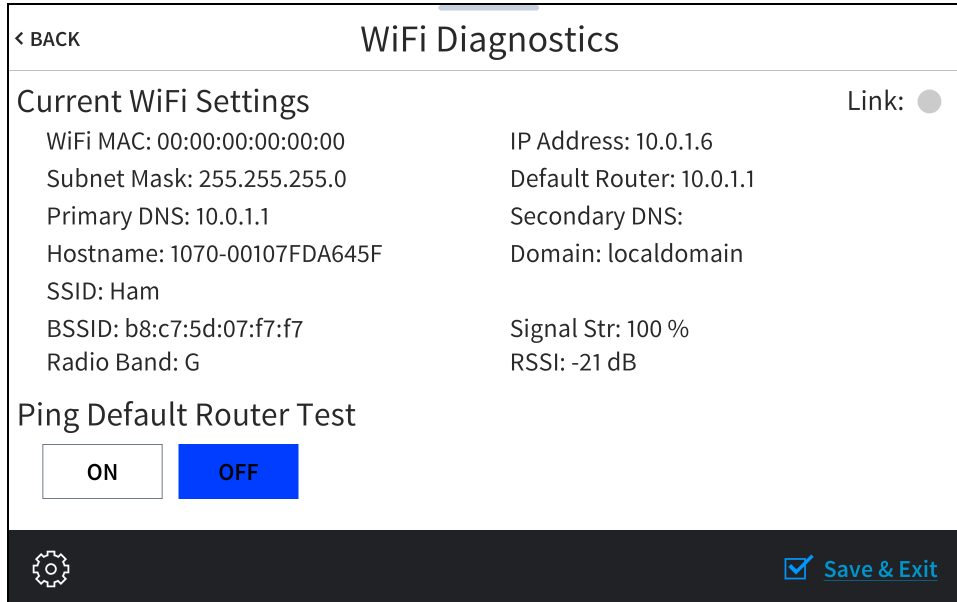
During the router test, the touch screen pings the default router. If the router is communicating with the touch screen, connection data is displayed below the ping test controls within five seconds. The connection data updates after every successive ping.

Tap **< BACK** to return to the **Diagnostics & Advanced** screen.

About

Tap **About** on the Setup screen to display the **About** screen.

About Screen
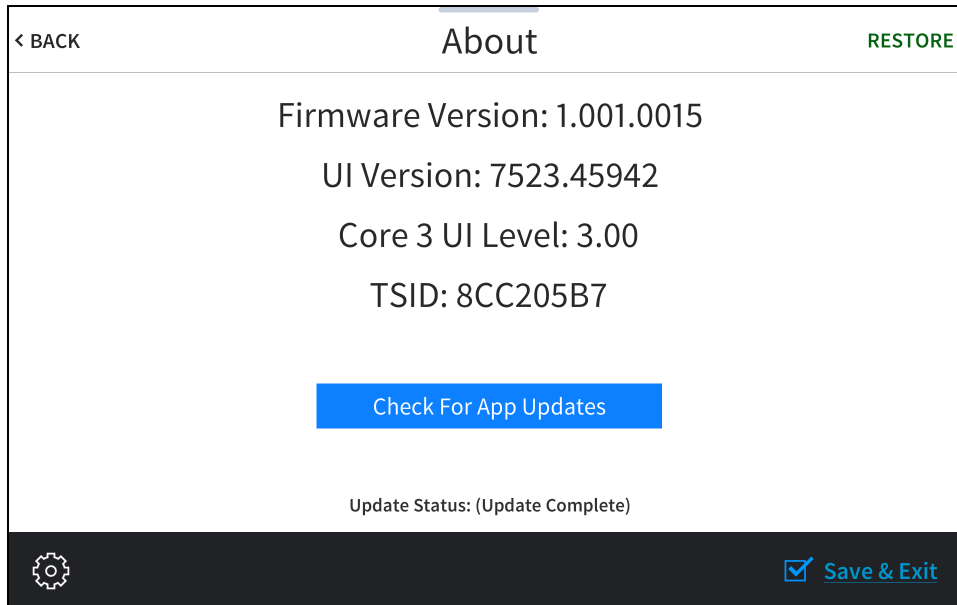
Use the **About** screen to view information about the touch screen, including the firmware version and the operating system versions.

Tap **Check For App Updates** to scan the network for any updates to the touch screen applications. If application updates are available, the touch screen downloads and installs the updates. The status of the updates is shown on the bottom of the screen.

NOTE: The **Check For App Updates** button is shown only if an application is running on the touch screen.

Tap **RESTORE** at the top right of the screen to restore the touch screen to its default factory settings.

Tap **< BACK** to return to the Setup screen.

Web Configuration

The touch screen may be monitored and configured using the included web configuration interface. The configuration interface is accessible from a web browser if the touch screen IP address is known. This interface is also accessible using the XiO Cloud® service.

To access the configuration interface:

1. Use the Device Discovery tool in Crestron Toolbox™ software to discover the touch screen and its IP address on the network.
2. Open a web browser.
3. Enter the touch screen IP address into the browser URL field. The configuration interface is displayed (TSS-770 shown).

   NOTE: If authentication is enabled for the touch screen, an administrator username and password must be entered prior to accessing the web configuration interface. For more information on configuring authentication settings, refer to Authentication (on page 43).

Web Configuration Interface
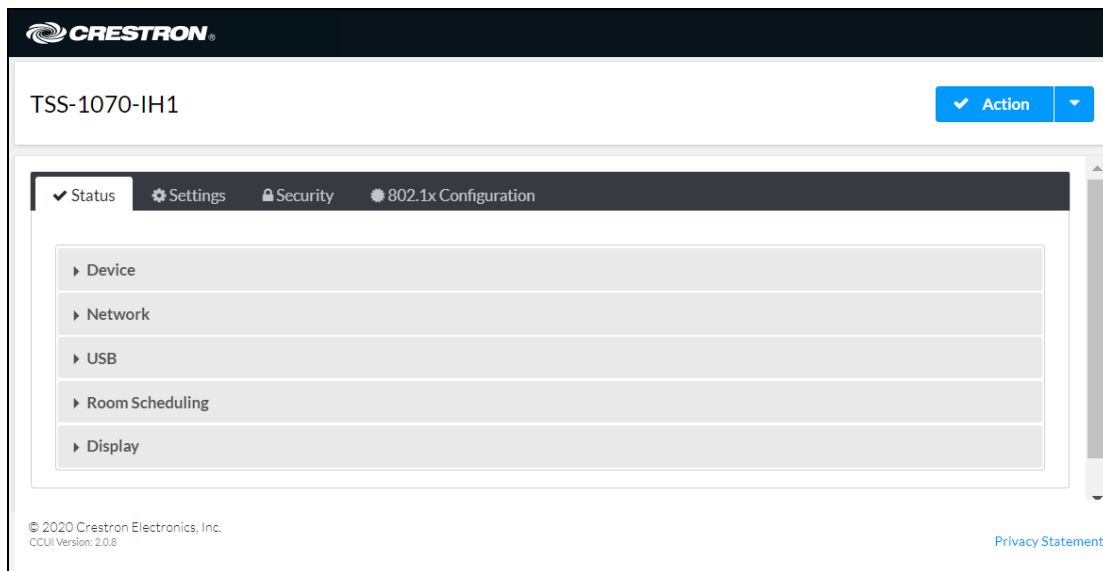
The configuration interface provides the following tabs:

- **Status**: Used to monitor touch screen status
- **Settings**: Used to configure touch screen settings
- **Security**: Used to enable authentication and other security settings
- **802.1x Configuration**: Used to configure IEEE 802.1x network authentication for touch screen security

NOTE: Some device settings may be displayed or hidden depending on the selected application mode.

If the Crestron room scheduling application is running on the touch screen, the web configuration utility provides additional configuration options for the room scheduling application. For more information, refer to the Crestron Room Scheduling Panels Operations Guide (Doc. 8205).

The **Status** tab is the default tab that is displayed, as shown in the image on the previous page.

Actions Menu

The configuration interface provides an **Actions** drop-down menu on the top right of the page. The **Actions** menu may be accessed at any time.

Actions Menu
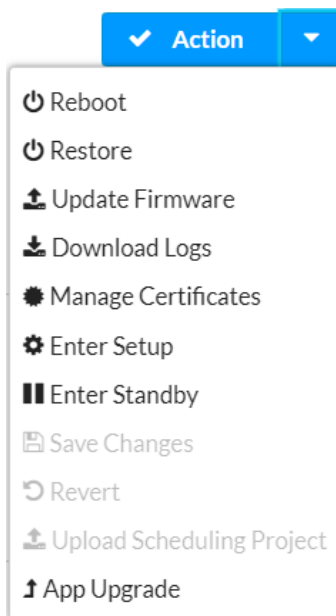
Once any changes have been made to the touch screen configuration, the **Actions** button changes to a **Save Changes** button. Click **Save Changes** to save changes to the configuration settings.

If a reboot is required after changes have been saved, a dialog box is displayed asking whether the reboot should be performed. Select **Yes** to reboot the device or **No** to cancel the reboot.

The **Actions** menu provides the following selections.

Reboot

Click **Reboot** to reboot the touch screen.

After **Reboot** is selected, a dialog box is displayed asking whether the touch screen should be rebooted. Select **Yes** to reboot the device or **No** to cancel the reboot.

Restore

Click **Restore** to restore the touch screen configuration settings to their default values.

After **Restore** is selected a dialog box is displayed asking whether the device settings should be restored. Select **Yes** to restore the settings or **No** to cancel the restore.

Update Firmware

Click **Update Firmware** to upgrade the touch screen firmware manually with a downloaded PUF (package update file). The **Firmware Upgrade** dialog box opens.

Firmware Upgrade Dialog Box
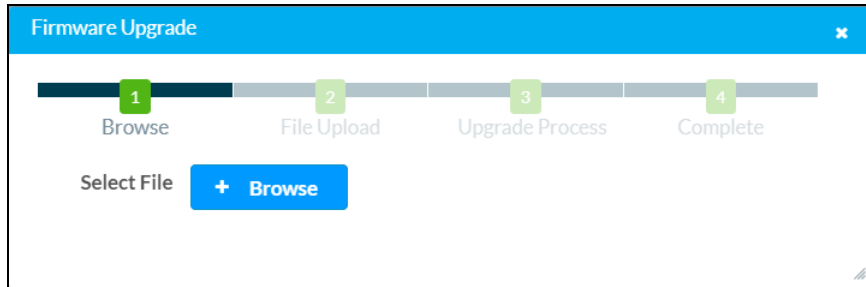
To upload a firmware PUF through the web configuration interface:

> **NOTE:** Visit www.crestron.com/firmware to download the latest firmware PUF.

1. Click **Browse**, and then navigate to the firmware PUF on the host computer.
2. Select the firmware PUF, and then click **Open**.
3. Click **Load** to load the PUF to the touch screen. The upload progress is shown in the dialog box.
4. Once the touch screen has completed the firmware upgrade, click **OK**.

Click the **x** button to close the Firmware Upgrade dialog box at any time during the upgrade process. Clicking the **x** button before the PUF is uploaded to the touch screen cancels the upgrade.

Download Logs

Click **Download Logs** to download the touch screen message logs for diagnostic purposes. The message files download as a compressed .tgz file. Once the compressed file is downloaded, extract the message log files to view them.

Manage Certificates

Click **Manage Certificates** to manage any certificates that are installed on the touch screen. For more information on certificate management, refer to 802.1x Configuration (on page 52).

Enter Setup

Click **Enter Setup** to force the touch screen to enter its built-in setup interface.

Enter Standby

Click **Enter Standby** to force the touch screen to enter standby mode.

Save Changes

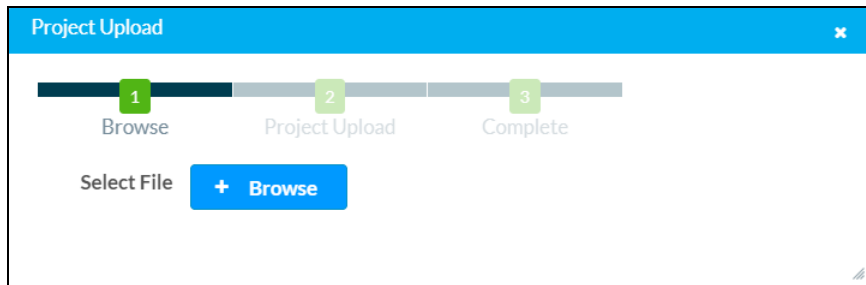Click **Save Changes** to save any changes made to the configuration settings.

Revert

Click **Revert** to revert the touch screen back to the last saved configuration settings.

Upload Scheduling Project

Click **Upload Scheduling Project** to upload a custom scheduling project to the touch screen. A **Project Upload** dialog box opens.

Project Upload Dialog Box

NOTE: This selection is available only if the touch screen is running in **Crestron Default** scheduling mode.

To upload a custom scheduling project:

1. Click **Browse**, and then navigate to the project .vtz file on the host computer.
2. Select the project .vtz file, and then click **Open**.
3. Click **Load** to load the project .vtz file to the touch screen. The upload progress is shown in the dialog box.
4. Once the touch screen has completed the project upload, click **OK**.

Click the **x** button to close the **Project Upload** dialog box at any time during the upgrade process. Clicking the **x** button before the project file is uploaded to the touch screen cancels the upload.

App Upgrade

Click **App Upgrade** to update the currently selected application. The update progress is shown in a pop-up window.

Once the update is complete, click **OK** to close the pop-up window.

Status

Click the **Status** tab on the top left of the configuration interface to display selections for viewing the status of device, network, and control system settings.

Click on a selection name to expand the selection. If the selection is expanded, click the selection name again to collapse the section.
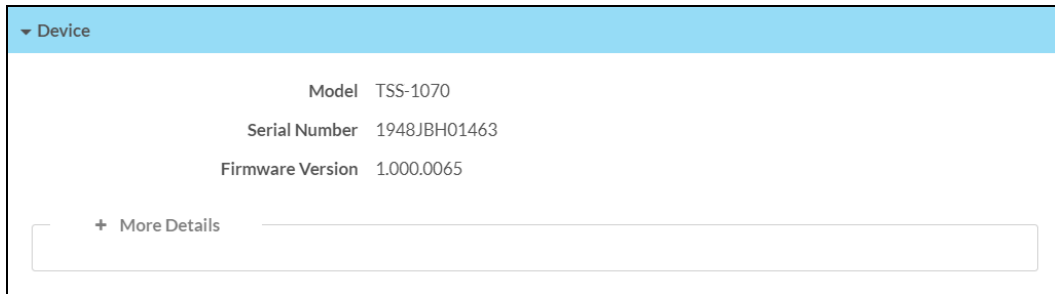
Status Tab Selections

Each selection is described in the sections that follow.

Device

Click **Device** to view general device information.

Status Tab - Device

The following **Device** information is displayed:
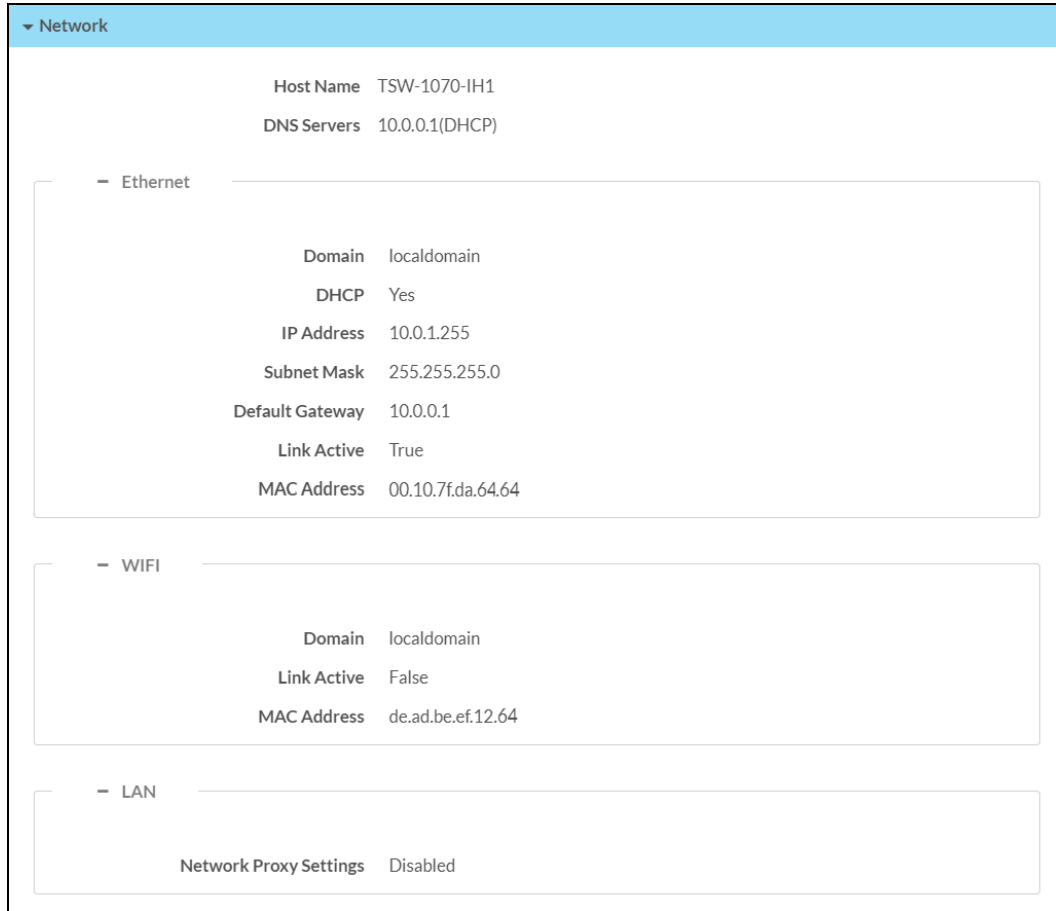
- **Model**: The touch screen model name
- **Serial Number**: The touch screen serial number
- **Firmware Version**: The firmware version loaded onto the touch screen

Click **+ More details** at the bottom of the **Device** tab to display an expanded section that shows additional touch screen information. If **+ More Details** is selected, click **- Less** details to collapse the section.

Network

Click **Network** to view the status of the network settings for the touch screen.

Status Tab - Network

▼ Network	
Host Name	TSW-1070-IH1
DNS Servers	10.0.0.1(DHCP)

− Ethernet

Domain	localdomain
DHCP	Yes
IP Address	10.0.1.255
Subnet Mask	255.255.255.0
Default Gateway	10.0.0.1
Link Active	True
MAC Address	00.10.7f.da.64.64

− WIFI

Domain	localdomain
Link Active	False
MAC Address	de.ad.be.ef.12.64

− LAN

Network Proxy Settings	Disabled

The following **Network** information is displayed:

- **Host Name:** The touch screen hostname
- **DNS Servers:** The DNS (domain name server) addresses used to resolve the touch screen domain to an IP address

Click the **+** (plus) icon next to **Ethernet** to display the following Ethernet settings:

- **Domain:** The touch screen domain name
- **DHCP:** Reports whether the IP address is static (Yes) or dynamic (No)
- **IP Address:** The touch screen IP address, shown only if an Ethernet connection is enabled
- **Subnet Mask:** The touch screen subnet mask address, shown only if an Ethernet connection is enabled
- **Default Gateway:** The gateway router address, shown only if an Ethernet connection is enabled

- **Link Active**: Reports the status of the Ethernet connection (A true message indicates that the Ethernet connection is active, while a false message indicates that the Ethernet connection is inactive.)
- **MAC Address**: The unique touch screen MAC (media access control) address

Click the **+** (plus) icon next to **WI-FI** to display the following Wi-Fi network settings:

- **Domain**: The Wi-Fi network domain name
- **DHCP**: Reports whether the Wi-Fi network IP address is static (Yes) or dynamic (No), shown only if a Wi-Fi network connection is enabled
- **IP Address**: The Wi-Fi network IP address, shown only if a Wi-Fi network connection is enabled
- **Subnet Mask**: The Wi-Fi network subnet mask address, shown only if a Wi-Fi network connection is enabled
- **Default Gateway**: The Wi-Fi network gateway router address, shown only if a Wi-Fi network connection is enabled
- **Link Active**: Reports the status of the Wi-Fi network connection (A true message indicates that the Wi-Fi network connection is active, while a false message indicates that the Wi-Fi network connection is inactive.)
- **MAC Address**: The unique Wi-Fi network MAC (media access control) address

Click the **+** (plus) icon next to **LAN** to display the following LAN settings:

- **Network Proxy Settings**: Reports whether network proxy settings are enabled or disabled for the touch screen

For more information on configuring network settings, refer to System Setup (on page 31).

USB

Click **USB** to view the status of a connected USB accessory, such as a room scheduling hallway sign or light bar.

Status Tab - USB

The following **USB** information is displayed:

- **Accessory Connected**: The name of the connected accessory
- **Accessory Type**: The type of connected accessory

Room Scheduling

Click **Room Scheduling** to view the status of the room if using a room scheduling application.

Status Tab - Room Scheduling

▾ Room Scheduling	
Room Status	Offline
Calendar Sync	
Fusion Online Status	Offline

The following **Room Scheduling** information is displayed:

- **Room Status**: The status of the connected room (available or reserved)
- **Calendar Sync**: The status of the sync between the touch screen and the room scheduling calendar
- **Crestron Fusion Online Status**: The status of the Crestron Fusion connection (if applicable)

Display

Click **Display** to view the display status.

Status Tab - Display

▾ Display	
Display Status	Standby

The **Display Status** field indicates the display status (on, standby, or screensaver).

Settings

Click the **Settings** tab on the top left of the configuration interface to display selections for configuring various touch screen settings and to select a touch screen application.

Settings Selections
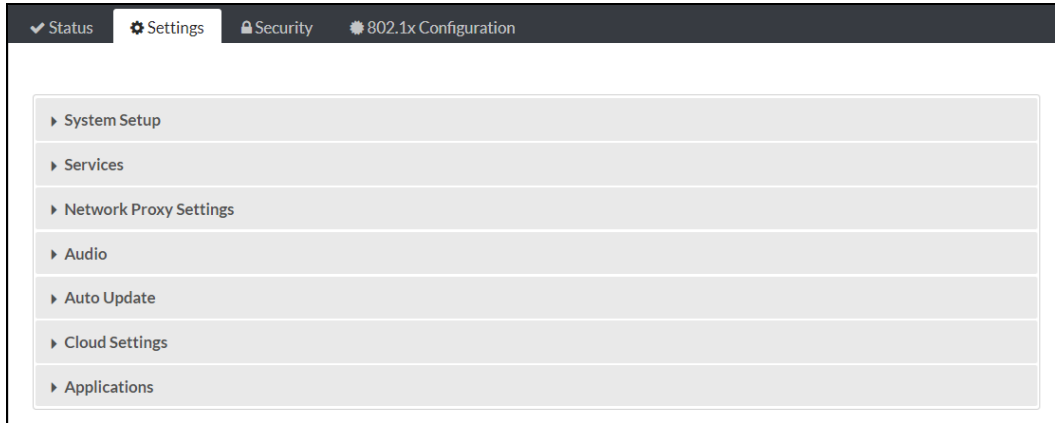
Each selection is described in the sections that follow.

NOTE: If an invalid value is entered for a setting, the web interface will not allow changes to be saved until a valid value is entered. Red text is displayed next a setting to indicate an invalid value.

System Setup

Click **System Settings** to configure general network and touch screen settings.

Settings Tab - System Setup

Click the **+** (plus) icon next to **Time/Date** to display the following time and date settings.

Settings Tab - System Setup (Time/Date)

Time Synchronization

- **Enable Time Synchronization**: Toggle the switch to turn time synchronization via SNTP (Simple Network Time Protocol) on or off.
- **Time Server**: With **Enable Time Synchronization** set to **On**, enter the SNTP server used to synchronize the date and time for the touch screen.
- **Synchronize Now**: With **Enable Time Synchronization** set to **On**, tap **Synchronize Now** to synchronize the touch screen with the SNTP server entered for **Time Server.**

Time Configuration

- **Time Zone**: Select a time zone for the touch screen using the drop-down menu.
- **Time Format**: Select the format that the time will display on the touch screen (12 hour or 24 hour).
- **Date Format**: Select the format that the date will display on the touch screen using the drop-down menu.
- **Time(24hr Format)**: Select the time for the touch screen (in 24-hour format) using the pop-up menu that is displayed.
- **Date**: Select the date for the touch screen using the pop-up calendar that is displayed.

Click the **+** (plus) icon next to **Network** to display the following network settings.

Settings Tab - System Setup (Network)

NOTE: The **IP Address**, **Subnet Mask**, and **Default Gateway** fields are required only if DHCP is set to **Disabled** for Ethernet and Wi-Fi network connection.

- **Network Configuration**
  - **Host Name**: Enter the touch screen hostname.
  - **Primary Static DNS**: Enter the primary DNS address.
  - **Secondary Static DNS**: Enter the secondary DNS address.
- **Ethernet**
  - **Adapter Enabled:** Toggle the switch to enable or disable the touch screen Ethernet adapter, which allows the touch screen to make an Ethernet connection
  - **DHCP Enabled**: Toggle the switch to enable or disable using DHCP.

  > **NOTE:** If DHCP is enabled, IP does not function until a reply has been received from the server. The touch screen broadcasts requests for an IP address periodically.

  - **Domain**: Enter the fully qualified domain name on the network.
  - **IP Address**: Enter the touch screen IP address on the network.
  - **Subnet Mask**: Enter the touch screen subnet mask address on the network.
  - **Default Gateway**: Enter the gateway router address on the network.
- **WI-FI**
  - **Adapter Enabled:** Toggle the switch to enable or disable the touch screen Wi-Fi adapter, which allows the touch screen to make a Wi-Fi network connection.
  - **DHCP Enabled**: Toggle the switch to enable or disable using DHCP for the Wi-Fi connection.
  - **Domain**: Enter the fully qualified Wi-Fi domain name on the network.
  - **Subnet Mask**: Enter the Wi-Fi subnet mask address on the network.
  - **Default Gateway**: Enter the Wi-Fi gateway router address on the network.
- **WI-FI Access Points**
  - **Scan Wi-Fi Access Points**: Tap this button to scan the network for any open Wi-Fi access points. All discovered access points are displayed in the **Select Discovered Access Points** menu.
  - **Select Discovered Access Points**: Select an access point from this menu after scanning for Wi-Fi access points. Enter text in the search field to search for a specific Wi-Fi access point name
  - **Add Access Points**: Tap this button to add the selected access point entry from the **Select Discovered Access Points** field to the table below.

Each added Wi-Fi access point is displayed in a table that contains the following information.

- **SSID**: Enter or modify the SSID (name) of the Wi-Fi access point.
- **Encryption Key**: Select the security/encryption type used by the Wi-Fi access point.
- **Password**: Enter the password used to connect to the Wi-Fi access point.
- **Active Access Point**: Indicates whether a connection to the Wi-Fi access point is active

Tap **Add** to add a new entry to the Wi-Fi access point table. After selecting one more entries in the Wi-Fi access point table, tap **Remove** to delete the selected entries.

Click the **+** (plus) icon next to **Device Display** to display the following device display settings.

Settings Tab - System Setup (Device Display)

- **LCD**
  - **Auto Brightness**: Toggle the switch to turn automatic brightness control for the touch screen LCD display on or off.
  - **ALS Threshold Value**: If **Auto Brightness** is turned on, enter a value (1–100%) for the ALS (ambient light sensor) threshold, which is used for switching between high and low auto-brightness presets.
  - **Brightness**: If **Auto Brightness** is turned off, enter a value (1–100%) for the LCD display brightness.
  - **Brightness High Preset**: Enter a value (1–100%) for the LCD display high brightness preset.
  - **Brightness Low Preset**: Enter a value (1–100%) for the LCD display low brightness preset.
- **Setup**
  - **Local Setup Sequence**: Toggle to switch to enable or disable local access to the setup screens using the five-finger press.
- **Screensaver and Standby**
  - **Standby Timeout**: Enter a standby timeout duration (1–120 minutes) for the touch screen.
  - **Screensaver Enabled**: Toggle the switch to enable or disable displaying a screensaver on the touch screen during standby timeout.
  - **24 Hour Digital Clock Enabled**: Toggle the switch to enable or disable displaying a 24-hour digital clock on the touch screen during standby timeout.
  - **Outdoor Temperature Enabled**: Toggle the switch to enable or disable displaying the outdoor temperate on the touch screen during standby timeout via a join from a control system.
  - **Indoor Temperature Enabled**: Toggle the switch to enable or disable displaying the indoor temperate on the touch screen during standby timeout via a join from a control system.
  - **Date Enabled**: Toggle the switch to enable or disable displaying the date on the touch screen during standby timeout.
  - **Date Format**: Use the drop-down menu to select a format for displaying the date on the touch screen.
  - **Brightness**: Enter a brightness value (1–100%) for the screensaver.
  - **Text Color**: Tap the color icon to the right of this field to display a pop-up window for selecting the text color of the screensaver, or enter a hex value for a specific color.
  - **Text Outline Color**: Tap the color icon to the right of this field to display a pop-up window for selecting the text outline color of the screensaver, or enter a hex value for a specific color.
  - **Text Font Face**: Use the drop-down menu to select a font for the screensaver text.

- **Header Text Line 1**: Enter text to be displayed on the first header text line of touch screen screensaver.

- **Header Text Line 2**: Enter text to be displayed on the second header text line of touch screen screensaver.

- **Header Text Justification**: Select one of the radio buttons (**Left**, **Center**, or **Right**) to select how the header text is justified on the touch screen screensaver.

- **Header Text Bidirectional Text Direction**: Select one of the radio buttons (**Left-To-Right** or **Right-To-Left**) to determine the language text direction on the touch screen screensaver.

- **Background Image URL**: Enter a URL of a background image to be used by the touch screen screensaver.

- **Video URL**: Enter a URL of video to be used by the touch screen screensaver.

- **Logo Setting**: Select one of the radio buttons (**None**, **Crestron**, and **Custom**) to select a logo type to use on the touch screen screensaver.

- **Logo URL**: If Logo Setting is set to Custom, enter a URL of a custom logo to be used by the touch screen screensaver.

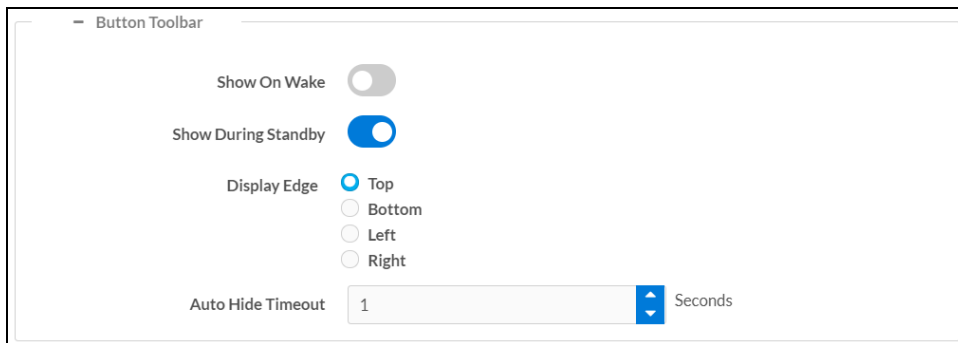Click the **+** (plus) icon next to **Proximity** to display the following proximity settings.

Settings Tab - System Setup (Proximity)

Toggle the **Wake On Proximity** switch to enable or disabling waking the touch screen automatically when a user enters the touch screen proximity field.

Click the **+** (plus) icon next to **Button Toolbar** to display the following virtual toolbar button settings.

**Settings Tab - System Setup (Button Toolbar)**

- **Show On Wake**: Toggle the switch to enable or disable showing the virtual toolbar when the touch screen wakes from standby timeout.

- **Show During Standby**: Toggle the switch to enable or disable showing the virtual toolbar during standby timeout.

- **Display Edge:** Select a radio button (Top, Bottom, Left, or Right) to select the position on the touch screen where the virtual toolbar is displayed
- **Auto Hide Timeout:** Select a duration (in seconds) that must elapse before the virtual toolbar is hidden automatically.

Click the **+** (plus) icon next to **PinPoint Beacon** to display the following Bluetooth beacon settings.

Settings Tab - System Setup (PinPoint Beacon)
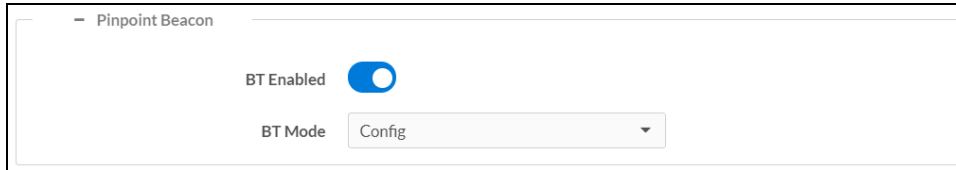
- **BT Enabled:** Toggle the switch to enable or disable the Bluetooth beacon.
- **BT Mode:** Use the drop-down menu to select the mode (**Advertise** or **Config**) of the Bluetooth beacon.
    - Select **Advertise** to make the Bluetooth beacon available to Crestron devices that support this functionality.
    - Select **Config** to put the Bluetooth beacon into configuration mode.

Services

Click **Services** to configure Crestron Fusion® software settings.

Settings Tab - Services
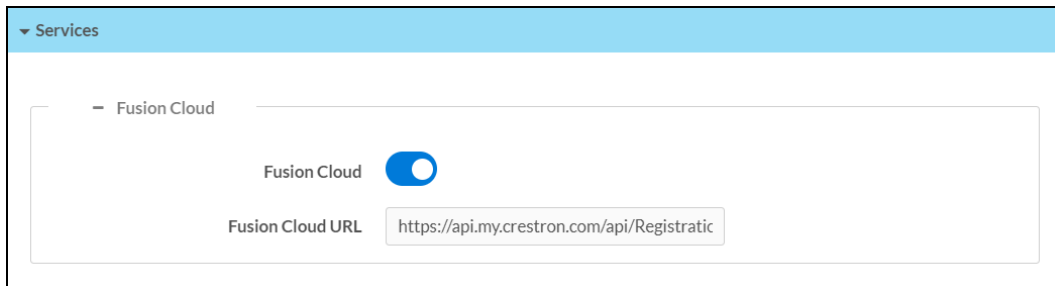
NOTE: If connecting to a Crestron Fusion software on-premises server, connections are made using either traditional (outbound) or inbound communications. For more information, refer to the Crestron Fusion 10 On-Premises Software Getting Started Guide (Doc. 7685).

- **Crestron Fusion Cloud:** Toggle the switch to enable or disable a connection to a Crestron Fusion Cloud server. This connection is only applicable when the scheduling mode is set to Crestron Default or User Project.
- **Crestron Fusion Cloud URL:** Enter the URL used to connect the touch screen to the desired Crestron Fusion Cloud server.

Network Proxy Settings

Click **Network Proxy Settings** to configure network proxy settings for the touch screen.

Settings Tab – Network Proxy Settings

- **Proxy**: Toggle the switch to enable or disable configuring the touch screen for use with a proxy server.
- **HTTP Settings**
  - **HTTP Proxy**: Toggle the switch to enable or disable an HTTP proxy server.
  - **HTTP Proxy Address**: Enter the IP address of the HTTP proxy server.
  - **HTTP Proxy Port**: Enter the port number of the HTTP proxy server.
  - **Username**: Enter the username required for the HTTP proxy server.
  - **Password**: Enter the password required for the HTTP proxy server.
- **HTTPS Settings**
  - **HTTPS Proxy**: Toggle the switch to enable or disable an HTTPS proxy server.
  - **HTTPS Proxy Address**: Enter the IP address of the HTTPS proxy server.
  - **HTTPS Proxy Port**: Enter the port number of the HTTPS proxy server.

- ○ **Username:** Enter the username required for the HTTPS proxy server.
- ○ **Password:** Enter the password required for the HTTPS proxy server.

Audio

Click Audio to configure various audio settings for the touch screen.

Settings Tab – Audio Settings
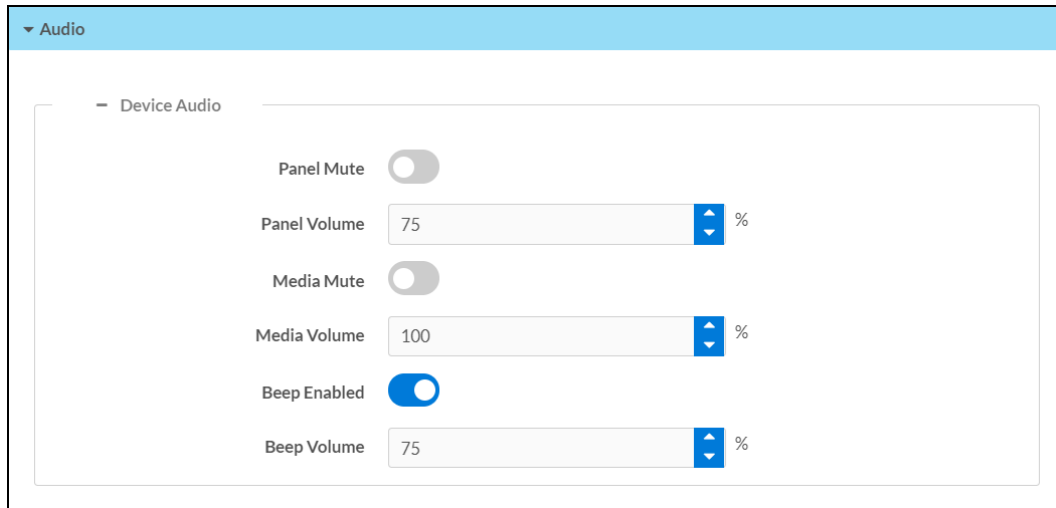
NOTE: The **Media Volume** setting adjusts the H.264 streaming media level in relation to the **Panel Volume** setting.
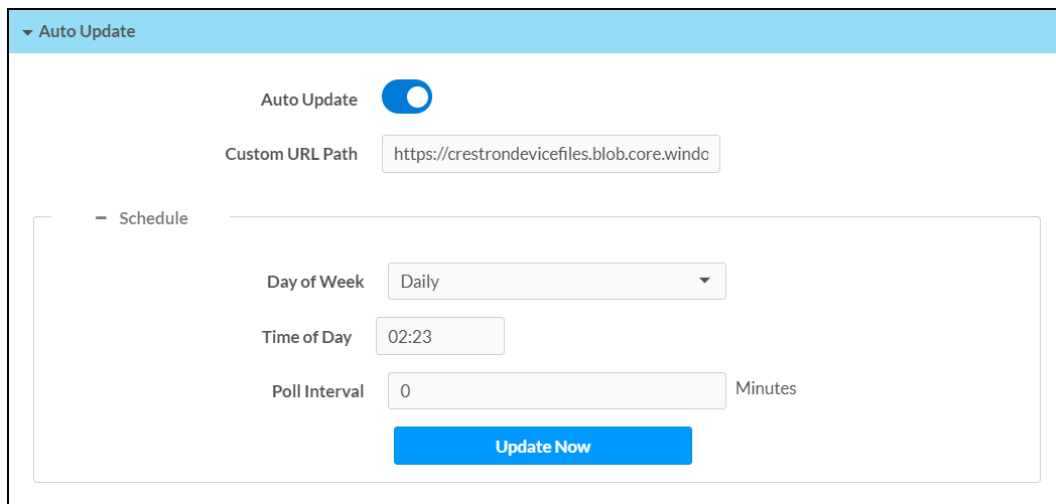
- **Panel Mute:** Toggle the switch to mute (**On**) or unmute (**Off**) the touch screen master volume.
- **Panel Volume:** Enter a value (1–100) for the touch screen master volume level.
- **Media Mute:** Toggle the switch to mute (**On**) or unmute (**Off**) the touch screen media volume.
- **Media Volume:** Enter a value (1–100) for the touch screen media volume level.
- **Beep Enabled:** Toggle the switch to turn the touch screen beep volume on or off.
- **Beep Volume:** Enter a value (1–100) for the touch screen beep volume.

Auto Update

Click **Auto Update** to configure automatic firmware updates for the touch screen.

NOTE: The **Auto Update** accordion can be used to configure auto update settings for firmware only. Automatic application updates are not affected by these settings.

Settings Tab - Auto-Update

- **Auto Update**: Toggle the switch to enable or disable automatic firmware updates.
- **Control URL Path**: Enter the URL path for the update server.
- **Day of Week**: Select the day of week when the touch screen will check for updates. Select Daily to have the touch screen check for updates every day.
- **Time of Day**: Enter a time of day (in 24-hour format) when the touch screen will check updates on the scheduled day.
- **Poll Interval**: Enter the polling interval (in hours) for when the touch screen will poll the server for updates.
- Click **Update Now** to check the update server for new firmware and to update the touch screen immediately if new firmware is available.

Cloud Settings

Click **Cloud Settings** to enable or disable a connection between the touch screen and an XiO Cloud® service account. A connection to the XiO Cloud service is enabled by default.

**Settings Tab – Cloud Settings**
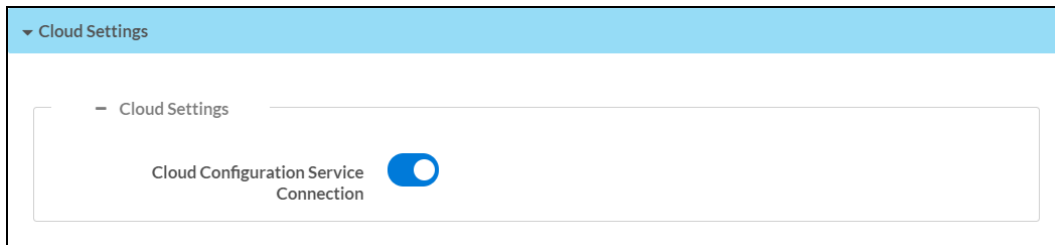
Toggle the **Cloud Configuration Service Connection** switch to enable or disable a connection between the touch screen and an XiO Cloud account. This setting is enabled by default.

For more information on connecting to the XiO Cloud service, refer to Connect to XiO Cloud Service (on page 56).

Applications

Click **Applications** to a select an application to run on the touch screen.

Settings Tab - Applications
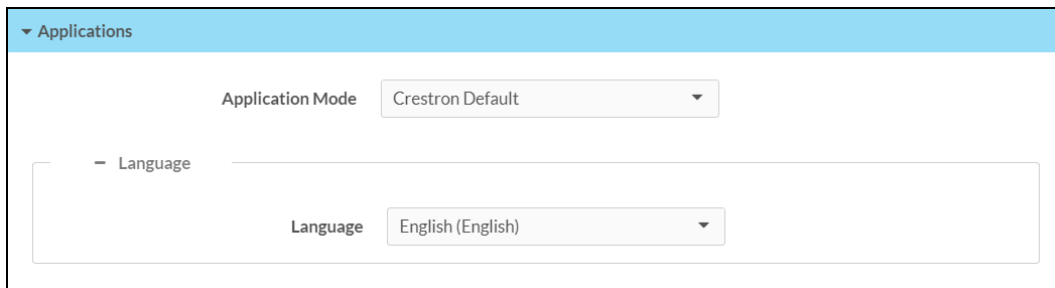
Use the **Application Mode** drop-down menu to select a touch screen application from the available selections. **User Project** is selected by default.

Once a new application is selected, click **Save Changes** from the **Actions** menu. A pop-up dialog box is displayed stating that the touch screen must be rebooted for the new application to take effect. Click **Yes** to reboot the touch screen now or **No** to reboot the touch screen later. The touch screen reboots with the new application running.

> **NOTE:** Each application uses a unique setup procedure for registering and configuring the application. For more information on setting up each application, refer to Application Selection (on page 55).

Security

Click the **Security** tab on the top left of the configuration interface to display selections for configuring security and authentication settings for the touch screen.

Security Tab Selections

Expand the **Security** accordion to configure the following settings:

- **SSL Mode**: Select an SSL (Secure Sockets Layer) mode to use for establishing a secure connection to the touch screen:
  - **Encrypt and Validation**: The touch screen will require a username and password to validate an encrypted SSL connection. Enter a username and password in the appropriate fields that are displayed.
  - **Encrypt**: The touch screen will use an encrypted SSL connection
  - **OFF**: The touch screen will not use an SSL connection.
- **Enable Authentication**: Toggle the switch to enable or disable authentication for the touch screen as described in Authentication (below).

Authentication

Toggle the **Enable Authentication** switch in the **Security** settings to turn authentication for the touch screen on or off. Authentication is turned on by default. When authentication is enabled, settings are displayed within the **Security** accordion.

Authentication Settings

When authentication is turned on, the web configuration interface prompts the user to enter a new administrator username and password. After rebooting the touch screen, this username and password must be entered to access the web configuration utility or to connect to the touch screen through Crestron Toolbox™ software.

CAUTION: Do not lose the administrator username and password, as the touch screen settings must be restored to factory defaults to reset the username and password.

Use the following **Authentication Management** settings to add, delete, and edit touch screen users and groups.

Current User

Click the **Current User** tab to view and edit information for the current touch screen user.

Authentication Management - Current User Tab

Current User	Users	Groups
Name	jsmith123	
Access Level	Administrator	
Active Directory User	No	
Groups	Administrators	

Change Current User Password

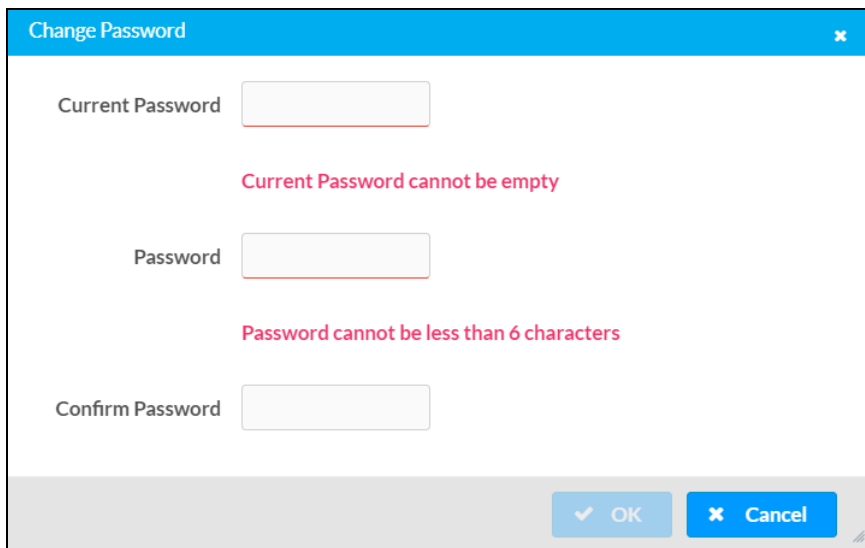The following settings are displayed for the current user:

- **Name**: The chosen username
- **Access Level**: The access level granted to the user (Administrator, Programmer, Operator, User, or Connect)
- **Active Directory User**: Reports whether the current user is (Yes) or is not (No) authenticated through Active Directory® software

> **NOTE:** A user must be added to an Active Directory group before the user may be selected as an active directory user. For more information, refer to Groups (on page 49).

- **Groups**: Any groups of which the current user is a member

Click **Change Current User Password** to change the password for the current user. The **Change Password** dialog box is displayed.

Change Password Dialog Box

Enter the existing password in the **Current Password** field. Then, enter a new password in the **Password** field, and reenter the password in the **Confirm Password** field.
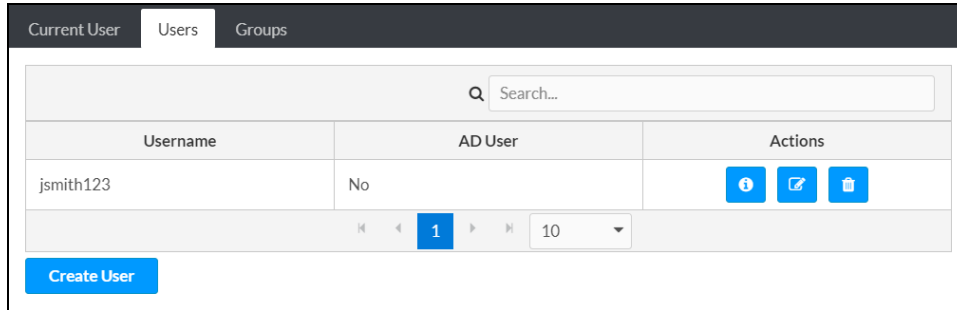
Tap **OK** to save the new password, or tap **Cancel** to cancel the change.

Users

Click the **Users** tab to view and edit information for the touch screen users.

Authentication Management - Users Tab

Enter text into the **Search Users** field to find and display users that match the search term(s).

Touch screen users are listed in table format. The following information is displayed for each touch screen user:

- **Username**: The chosen username
- **AD User**: Reports whether the user is (**Yes**) or is not (**No**) authenticated through Active Directory

> **NOTE:** A user must be added to an Active Directory group before the user may be selected as an active directory user. For more information, refer to Groups (on page 49).
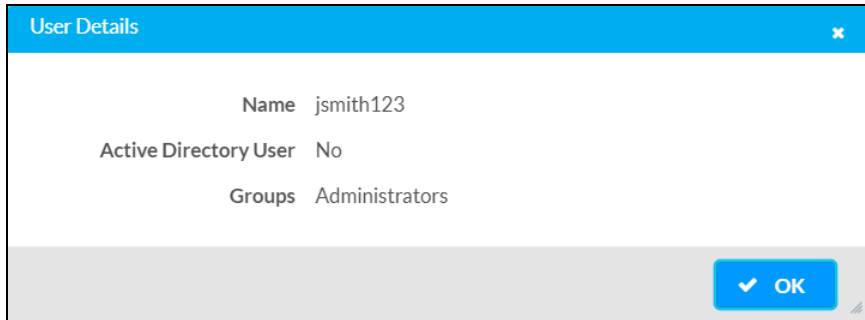
If the touch screen users span multiple pages, use the navigation arrows on the bottom of the page to move forward or backward through the pages, or select a page number to navigate to that page. Additionally, the number of users displayed on each page may be set to 5, 10, or 20 users.

An **Actions** column is also provided for each user that allows various actions to be performed. The following selections may be selected from the **Actions** column.

User Details

Click the information button ⓘ in the **Actions** column to view information for the selected user. The **User Details** pop-up dialog box is displayed.

User Details Dialog Box

The following settings are displayed for the current user:
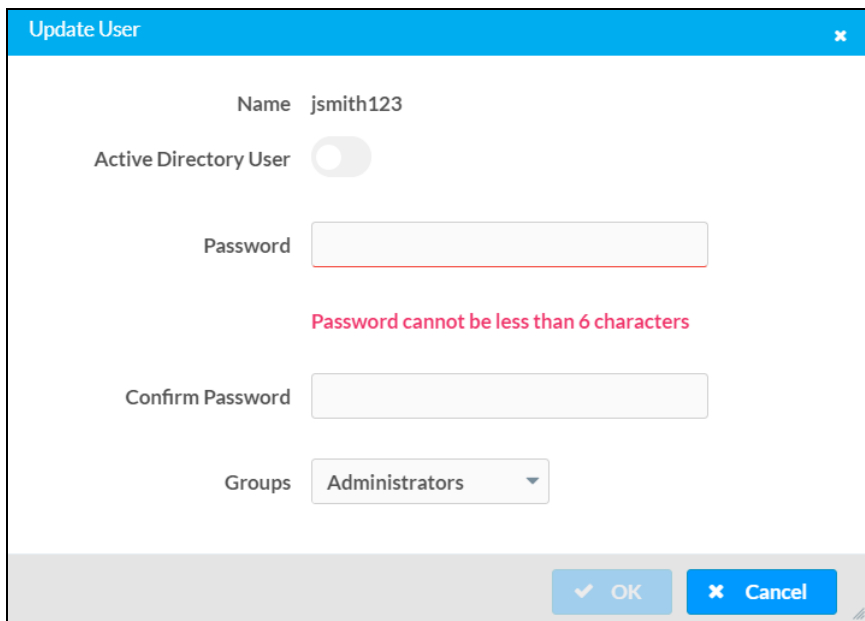
- **Name**: The chosen username
- **Active Directory User**: Reports whether the user is (**Yes**) or is not (**No**) authenticated through Active Directory
- **Groups**: Lists any groups that contain the user

Click **OK** to return to the **Authentication Management** > **Users** page.

Update User

Click the editing button 📝 in the **Actions** column to edit settings for the selected user. The **Update User** dialog box is displayed.

Update User Dialog Box

The following **Update User** settings may be viewed or configured:

- **Name**: The chosen username
- **Active Directory User**: Toggle the switch to turn authentication via Active Directory on or off for the selected user.
- **Password**: Enter a new password for the selected user.
- **Confirm Password**: Reenter the password provided in the **Password** field.
- **Groups**: Add the user to one or more groups. For more information, refer to Groups (on page 49).

> **NOTE:** A user must be added to an Active Directory group to be selected as an Active Directory user.

Click **OK** to save any changes and to return to the **Authentication Management** > **Users** page. Click **Cancel** to cancel any changes.

Delete User

Click the trashcan icon in the **Actions** column to delete the user.

A pop-up dialog box is displayed asking whether the user should be deleted. Click **Yes** to delete the user or **No** to cancel deleting the user.

Create User

Click **Create User** at the bottom of the page to create a new touch screen user. The **Create User** dialog box is displayed.

Create User Dialog Box

Use the following settings to create a new user:

- **Name**: Enter a username.
- **Active Directory User**: Toggle the switch to turn authentication via Active Directory on or off for the user.
- **Password**: Enter a password for the user.
- **Confirm Password**: Reenter the password provided in the Password field.
- **Groups**: Add the user to one or more groups. For more information, refer to Groups (on the facing page).

> NOTE: A user must be added to an Active Directory group to be selected as an Active Directory user.

Click **OK** to save any changes and to return to the **Authentication Management** > **Users** page. Click **Cancel** to cancel creating a new user.

Groups

Click the **Groups** tab to view and edit settings for touch screen groups. Touch screen groups are used to group users by access level and Active Directory authentication settings.

Authentication Management - Groups Tab

Enter text in to the **Search Groups** field to find and display groups that match the search term(s).

Touch screen groups are listed in table format. The following information is displayed for each touch screen group:

- **Group Name**: The chosen group name
- **AD Group**: Reports whether the group is (**Yes**) or is not (**No**) authenticated through Active Directory

> **NOTE:** Active Directory provides an additional layer of authentication for touch screen groups and users. Active directory group and user names are stored in the touch screen console along with a unique SID (security identifier). When an Active Directory user attempts to authenticate against the console, the console first checks the user credentials. If the Active Directory authentication is successful, Active Directory queries the console for the user or group's SID. The user is granted access to the touch screen only if at least one SID match is found.

- **Access Level**: The access level for the selected group (**Administrator**, **Programmer**, **Operator**, **User**, or **Connect**)

If the touch screen groups span multiple pages, use the navigation arrows on the bottom of the page to move forward or backward through the pages, or select a page number to navigate to that page. Additionally, the number of groups displayed on each page may be set to 5, 10, or 20 users.

An **Actions** column is also provided for each group that allows various actions to be performed. The following selections may be selected from the **Actions** column.

Group Details

Click the information button ⓘ in the **Actions** column to view information for the selected group. The **Group Details** dialog box is displayed.

Group Details Dialog Box

Group Details	✖
Name	Administrators
Access Level	Administrator
Active Directory Group	No
	✔ OK
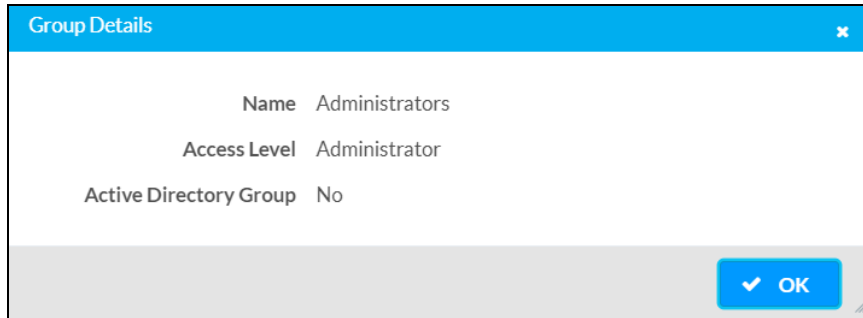
The following settings are displayed for the current group:

- **Name**: The chosen group name

-
    > **NOTE:** If authenticating with Active Directory, do not enter the domain name for the Active Directory group in the **Name** field. If this information is being entered via console commands, omit `domain\local` from the command (for example, `adddomaing -n:crestron -L:A` instead of `adddomaing -n:domain.local\crestron -L:A`).

- **Access Level**: The access level of the group and its users
- **Active Directory User**: Reports whether the group is (**Yes**) or is not (**No**) authenticated through Active Directory

Click **OK** to return to the **Authentication Management** > **Groups** page.
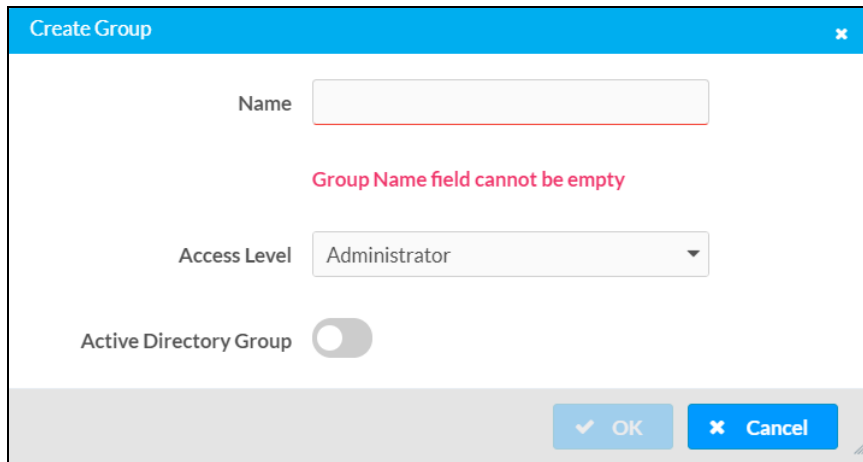
Delete Group

Click the trashcan icon in the **Actions** column to delete the group.

A pop-up dialog box is displayed asking whether the group should be deleted. Click **Yes** to delete the group or **No** to cancel deleting the group.

Create Group

Click **Create Group** at the bottom of the page to create a new touch screen group. The **Create Group** dialog box is displayed.

Create Group Dialog Box

Use the following settings to create a new group:

- **Name**: Enter a group name.
- **Access Level**: Select an access level for the group and its users from the drop-down menu.
- **Active Directory Group**: Toggle the switch to turn authentication via Active Directory on or off for the group.

Click **OK** to save any changes and to return to the **Authentication Management** > **Groups** page. Click **Cancel** to cancel creating a new group.

802.1x Configuration

Click the **Security** tab on the top left of the configuration interface to display selections for configuring IEEE 802.1x network authentication for touch screen security.

**802.1x Configuration Tab Selections**

Expand the **802.1x Configuration** accordion to configure the following settings:

- **IEEE 802.1x Authentication**: Toggle the switch to enable or disable using 802.1x authentication for the touch screen.

- **Authentication Method**: Select an 802.1x authentication method (**EAP-TLS Certificate** or **EAP MSCHAP V2- password**) from the drop-down menu.

- **Domain**: If **EAP MSCHAP V2- password** is selected for **Authentication Method**, enter a domain name that is required for authentication.

- **Username**: If **EAP MSCHAP V2- password** is selected for **Authentication Method**, enter a username that is required for authentication.

- **Password**: If **EAP MSCHAP V2- password** is selected for **Authentication Method**, enter a password that is required for authentication.

- **Enable Authentication Server Validation**: Toggle the switch to enable or disable using server validation for increased security.

- **Select Trusted Certificate Authorities**: Select trusted CAs (Certificate Authorities) from the provided CAs to be used for server validation:
  - Click the check box to the left of a CA to select it as a trusted CA.
  - Enter a search term into the text field at the top of the CA menu to search for and display CAs that match the search term.
  - Click the check box to the left of the search field at the top of the CA menu to select all CAs as trusted CAs.

Select **Manage Certificates** from the **Action** menu to add or remove CAs from the list. The **Manage Certificates** dialog box is displayed with the **Root** tab selected.

Manage Certificates Dialog Box - Root Tab
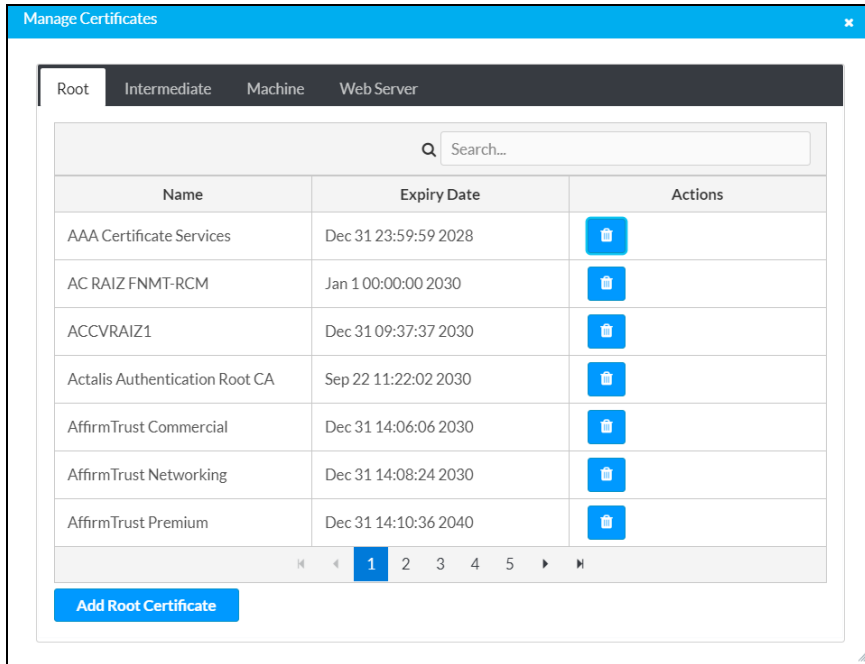
Click the tabs near the top of the page to switch between the different types of CAs (**Root**, **Intermediate**, **Machine**, or **Web Server**). The same settings are provided for each type of CA.

Type a search term into the **Search...** text field to search for and display CAs that match the search term.

The following information is provided for each type of CA:

- **Name**: The CA name
- **Expiry Date**: The date and time that the CA is set to expire

If the CAs span multiple pages, use the navigation arrows on the bottom of the page to move forward or backward through the pages, or select a page number to navigate to that page.

Click the trashcan button 🗑 in the **Actions** column for a CA to delete it. A pop-up dialog box is displayed asking if the CA should be deleted. Click **Yes** to delete the certificate or **No** to cancel.

Click **Add [Type] Certificate** to add a CA of one of the four available types (**Root**, **Intermediate**, **Machine**, or **Web Server**) to the list of CAs. The **Add Certificate** pop-up dialog box is displayed.

Add Certificate Dialog Box
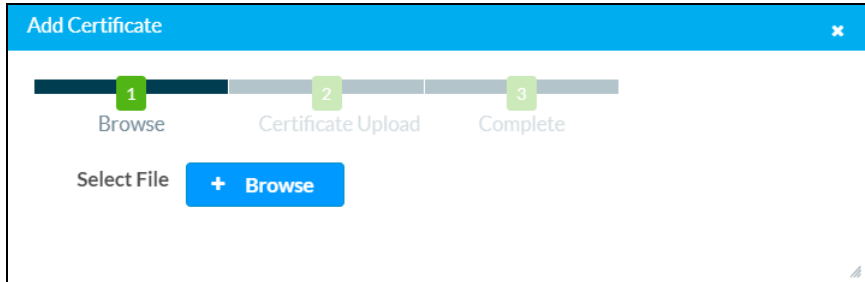
To add a new certificate:

1. Click **Browse**.

2. Navigate to the CA file on the host computer.

3. Select the CA file, and then click **Open**.

4. Click **Load** to load the CA file to the touch screen. The upload progress is shown in the dialog box.

5. Once the touch screen has completed the upload, click **OK**.

Click the **x** button to close the **Add Certificate** dialog box at any time during the upload process. Clicking the **x** button before the CA file is uploaded to the touch screen cancels the upload.

Click the **x** button to close the **Manage Certificates** dialog box and to return to the **802.1x Authentication** page.

Application Selection

The touch screen ships with a variety of preinstalled applications that provide out-of-the-box functionality. Once an application has been selected, it downloads from the cloud and installs on the touch screen automatically.

The following applications ship with the touch screen:

- Crestron room scheduling application
- Appspace® digital signage application
- AskCody® room scheduling application
- EMS Software® room scheduling application
- Gingco.net™ room scheduling application
- Indoor Finders® room scheduling application
- Matrix Booking® room scheduling application
- New Wave Apps® room scheduling application
- NFS™ Rendezvous room scheduling application
- Robin® room scheduling application
- SharingCloud™ room scheduling application
- Space Connect™ room scheduling application
- SpaceIQ® room scheduling application
- Teem® room scheduling application
- Zoom Rooms™ conferencing control and Zoom™ room scheduling application

NOTE: Support for additional applications will be provided by future firmware updates.

The touch screen runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron may run on the touch screen.

NOTE: Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services.

For more information on using and setting up each application, refer to the provider's website.

Connect to XiO Cloud Service

The XiO Cloud service allows all supported Crestron devices across an enterprise to be managed and configured from one central, secure location in the cloud. The XiO Cloud service may be used to view the status of a device, to configure various device and network settings, to manage licenses, and to update device firmware.

Devices must be claimed by the XiO Cloud service before they may be managed by the service. Devices may be claimed individually or as a group.

For information on creating environments, managing devices, and managing users with the XiO Cloud service, refer to the XiO Cloud User Guide (Doc. 8214).

Claim a Single Device

To claim a single device:

1. Record the MAC address and serial number of the device. The MAC address and serial number are labeled on the shipping box or on a sticker attached to the device.

    NOTE: Use the MAC address labeled *MAC Address*.

2. In the XiO Cloud service, click the **ENVIRONMENT** menu button ▤ to display a drop-down menu.

    Environment - Drop-Down Menu
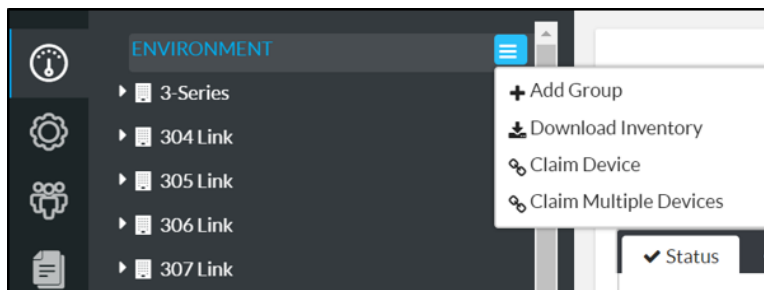
3. Click **Claim Device.** The **Claim Device** dialog box is displayed.

Claim Device Dialog Box

4. Enter the MAC address and serial number recorded in step 1 in the **MAC Address** and **Serial Number** fields, respectively.

5. Click **Claim**. A success message is displayed if the claim is successful.

> **NOTE:** If an error message is displayed stating that the device does not exist, connect the device to a network that has access to the Internet, wait 15 minutes, and then try again.

6. Click **X** to close the dialog box. The hostname of the claimed device is displayed in the device tree under the group **Unassociated Devices**.

Unassociated Devices

The device may now be managed and assigned to a group.

Claim Multiple Devices

To claim multiple devices:

1. Record the MAC address and serial number of each device as a comma delimited CSV file. The MAC address and serial number are labeled on the shipping box or on a sticker attached to the device.

> **NOTE:** Use the MAC address labeled *MAC Address*.

The CSV file should be formatted as shown below:

CSV File Format

```
MAC Address,Serial Number
00.10.7e.8b.81.b6,17284712
00.10.7e.8b.8c.87,17284570
00.10.7e.96.83.93,1716JBG01207
00.10.7e.96.92.0a,1716JBG01550
00.10.7e.8b.87.c1,17284670
```

> **NOTE:** An optional third column may be added to the CSV file with custom device names. After being claimed, the device will take the custom name from the CSV file instead of its default name. For example, if adding a custom device name to the first example above, the formatting would be `00.10.73.8b.81.b6,17284712,[custom device name]`
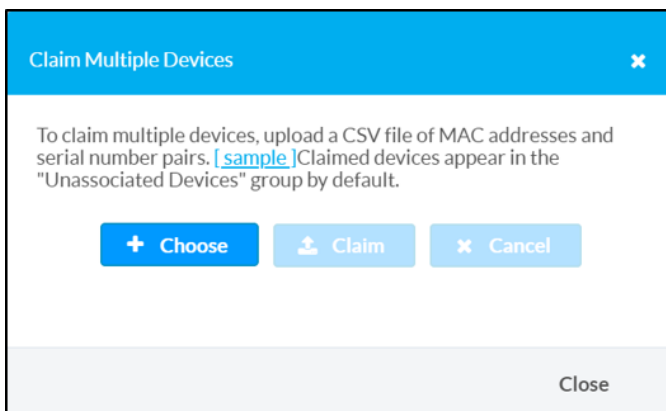
2. Save the CSV file to a location that may be accessed by the computer used to access the XiO Cloud service.

3. In the XiO Cloud service, click the **ENVIRONMENT** menu button ☰ to display a drop-down menu.

Environment - Drop-Down Menu
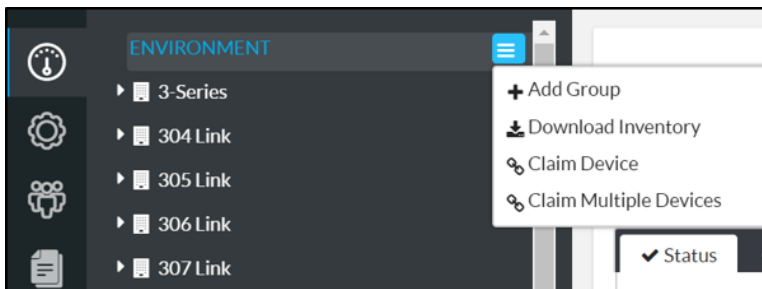
4. Click **Claim Multiple Devices**. The **Claim Multiple Devices** dialog box is displayed.

Claim Multiple Devices Dialog Box

5. Click **Choose**, and then select the CSV file created in step 1.

6. Click **Claim** to claim all of the devices listed in the file. A message indicating the claim status of each device is displayed.

> **NOTE:** If an error message is displayed stating that a device does not exist, connect that device to a network that has access to the Internet, wait 15 minutes, and then try again.

7. Click **X** to close the dialog box. The hostnames of the claimed devices appear in the device tree under the group **Unassociated Devices**.

Unassociated Devices

The devices may now be managed and assigned to a group.