



TSS-7 and TSS-10
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 Model: TSW-760, TSW-1060

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Introduction

The Crestron® [TSS-7](#) and [TSS-10](#) are stylish and versatile 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 Crestron TSS-7 and TSS-10 are functionally similar. For simplicity within this guide, the term “touch screen” is used except where noted.

For more information on the TSS-7 and TSS-10, refer to the [TSS-7 and TSS-10 Quick Start Guide](#).

Access the Setup Screens

Use the setup screens to perform 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-10 shown).

TSS-10 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 \(on page 10\)](#).

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

- Buttons for Ethernet setup and diagnostics.
- 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.

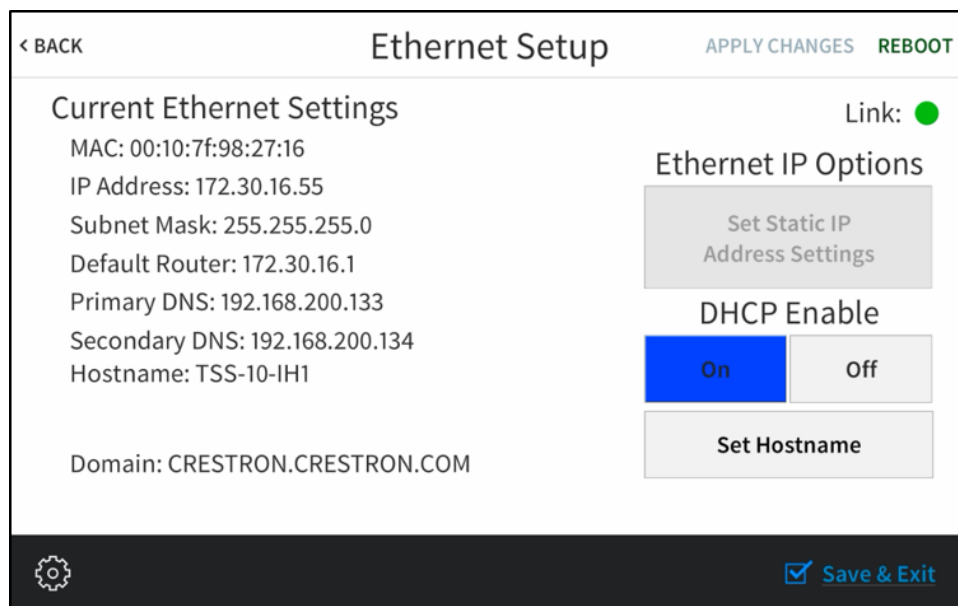
Local Configuration

Refer to the following sections for information about configuring the device locally using the device 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 **DHCP Enable** to turn DHCP (dynamic host configuration protocol) on or off.

NOTE: DHCP is turned on by default.

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

< BACK Static IP Ethernet Setup APPLY CHANGES REBOOT

Touch a Setting to Edit

Static IP address Preferred DNS
0.0.0.0 0.0.0.0

Static Subnet Mask Alternate Preferred DNS
0.0.0.0 0.0.0.0

Static Default Router
0.0.0.0

⚙️ ✓ Save & Exit

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

< CANCEL Edit IP Address



0.0.0.0 ✕ ⊗

1 2 3

4 5 6

7 8 9

. 0 Save

- Use the keypad to make a new entry.
- Tap the clear button  in the text field to clear any earlier 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.

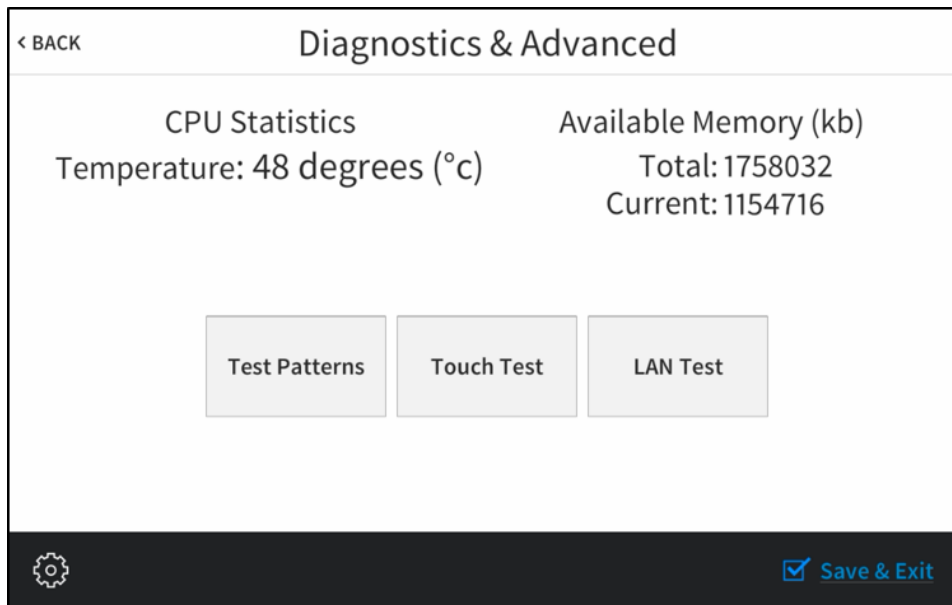
Tap **< BACK** to return to the **Ethernet Setup** screen.

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

Diagnostics & Advanced

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

Diagnostics & Advanced Screen



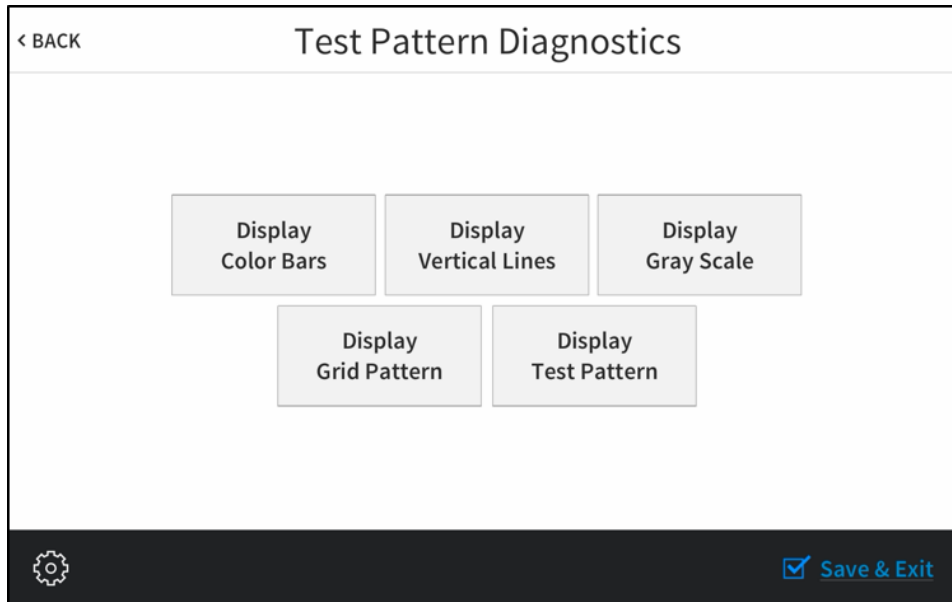
Use the **Diagnostics & Advanced** screen to access various diagnostic test screens for the touch screen. The **Diagnostics & Advanced** screen also provides the touch screen CPU temperature and available memory.

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



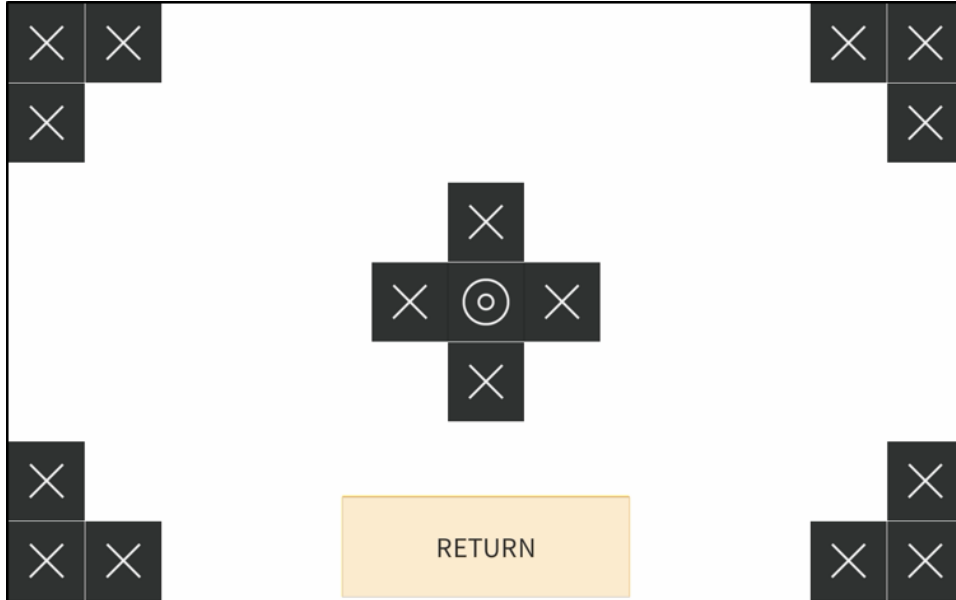
Use the **Test Pattern Diagnostics** screen to display any of the available test patterns. Tap one of the buttons on the screen to display its respective test pattern.

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



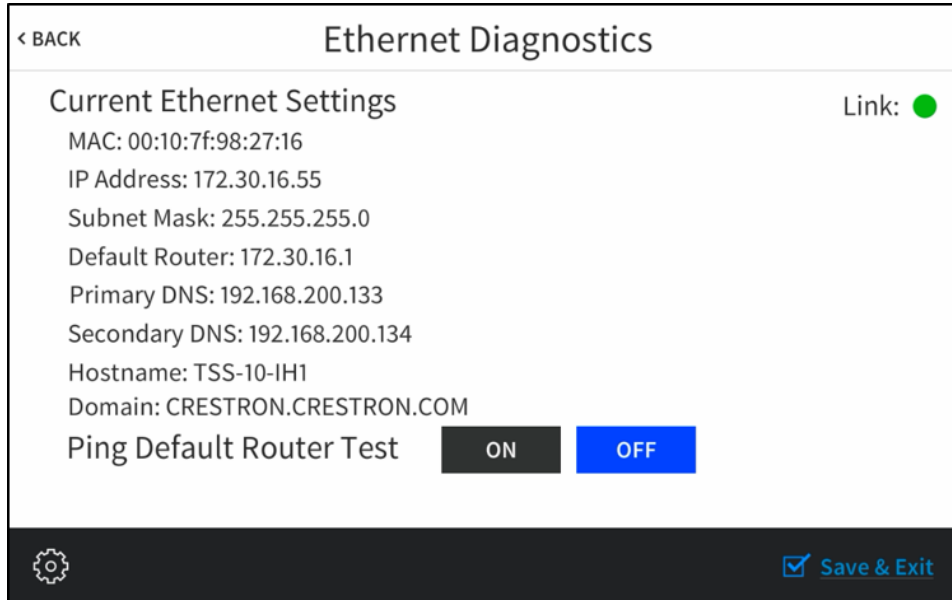
Use the touch test screen to test the touch functionality of the display. When a location button is tapped, its respective indicator lights on the screen.

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



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.

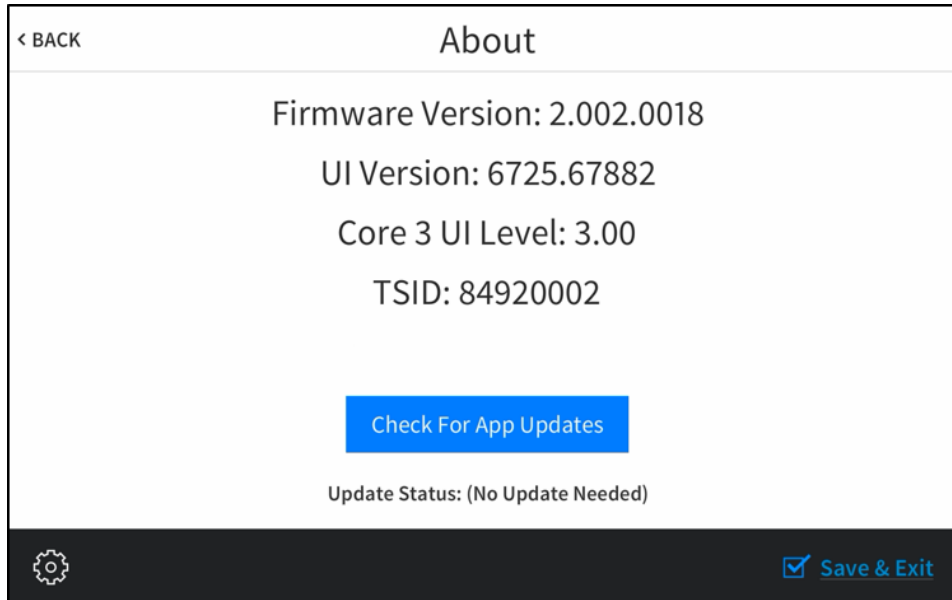
During the router test, the touch screen pings the default router. If the router is communicating with the touch screen, connection data is displayed below the ping test controls within five seconds. The connection data updates after every successive ping.

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

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.

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

Web Configuration

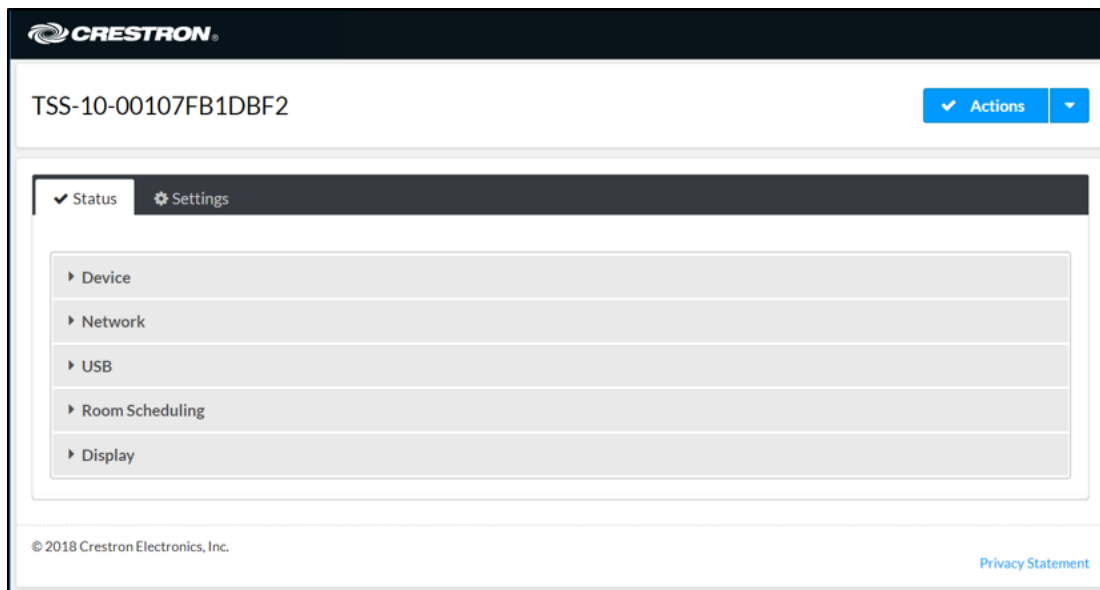
The touch screen may be monitored and configured using the included web configuration interface. The configuration interface is accessible from a web browser if the touch screen IP address is known. This interface is also accessible using the XiO Cloud® service.

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-10 shown).

NOTE: If authentication is turned on for the touch screen, an administrator username and password must be entered before accessing the web configuration interface. For more information on configuring authentication settings, refer to [Authentication Management \(on page 26\)](#).

Web Configuration Interface



The configuration interface provides a **Status** tab for monitoring touch screen settings and a **Settings** tab for configuring touch screen settings and for selecting a touch screen application. The device hostname is displayed at the top left of the page.

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

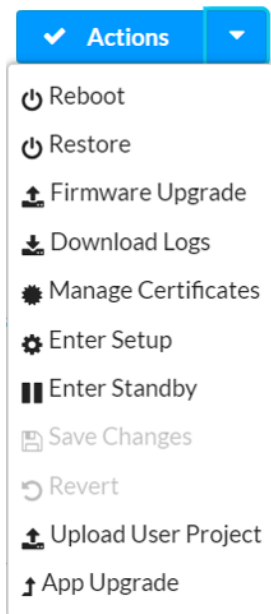
If the Crestron room scheduling application is running on the touch screen, the web configuration utility provides more configuration options for the room scheduling application. For more information, refer to the [Crestron Room Scheduling Panels Operations Guide](#).

The **Status** tab is the default tab that is displayed, as shown in the preceding image.

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. Select **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

Select **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

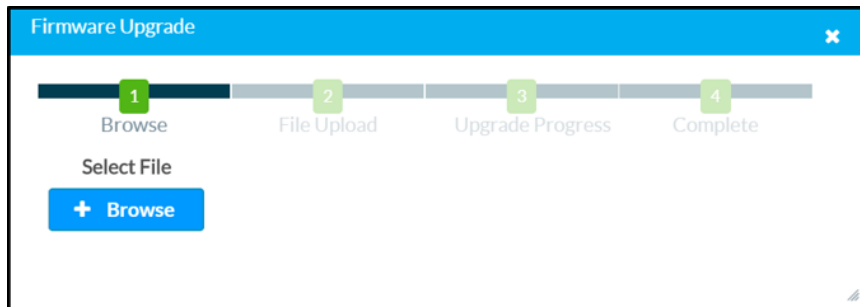
Select **Restore** to restore the touch screen configuration settings to their default values.

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.

Firmware Upgrade

Select **Firmware Upgrade** 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. Select **Browse**, and then navigate to the firmware PUF on the host computer.
2. Select the firmware PUF, and then select **Open**.
3. Select **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, select **OK**.

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

Download Logs

Select **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

Select **Manage Certificates** to manage any certificates that are installed on the touch screen. For more information on certificate management, refer to [802.1x Configuration \(on page 34\)](#).

Enter Setup

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

Enter Standby

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

Save Changes

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

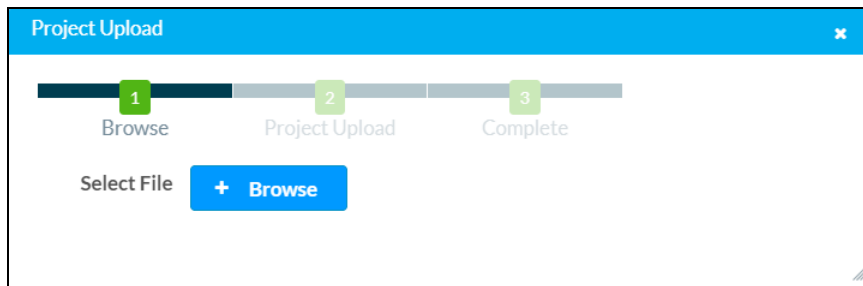
Revert

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

Upload Scheduling Project

Select **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. Select **Browse**, and then navigate to the project .vtz file on the host computer.
2. Select the project .vtz file, and then select **Open**.
3. Select **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, select **OK**.

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

App Upgrade

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

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

Status

Select 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.

Select on a selection name to expand the selection. If the selection is expanded, select the selection name again to collapse the section.

Status Tab Selections

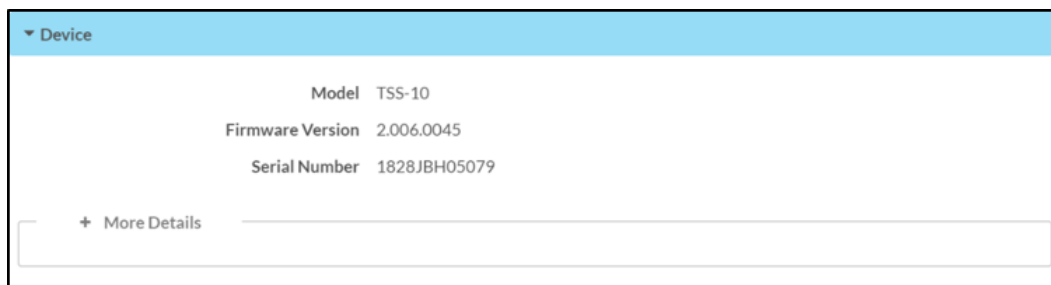


Each selection is described in the sections that follow.

Device

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

Status Tab - Device



The following **Device** information is displayed:

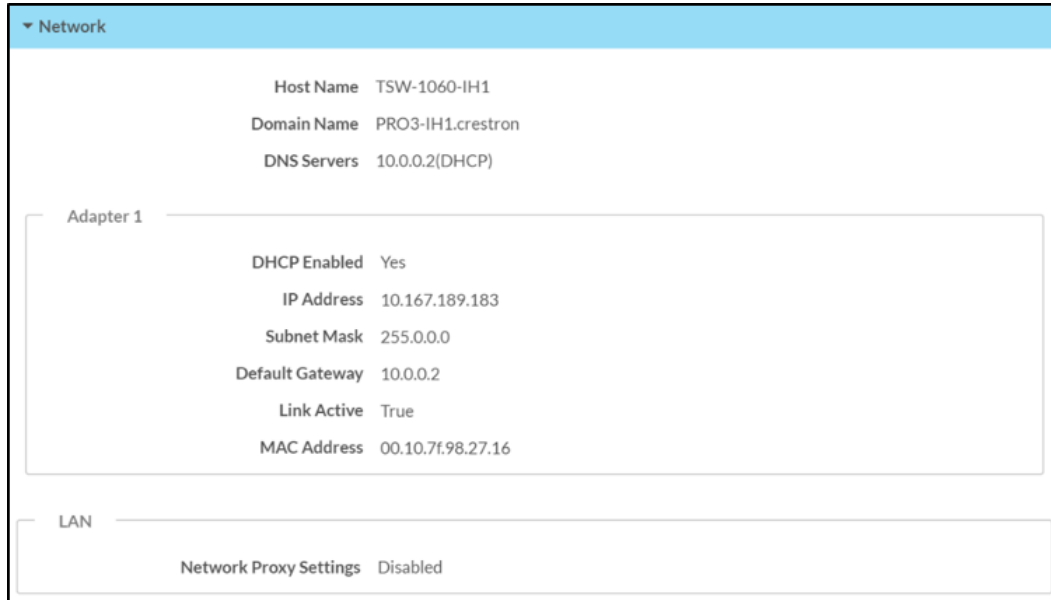
- **Model:** The touch screen model name
- **Firmware Version:** The firmware version loaded onto the touch screen
- **Serial Number:** The touch screen serial number

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

Network

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

Status Tab - Network



The following **Network** information is displayed:

- **Host Name:** The touch screen hostname
- **Domain Name:** The touch screen domain name
- **DNS Servers:** The DNS (domain name server) addresses used to resolve the touch screen domain to an IP address
- **DHCP Enabled:** Reports whether the IP address is static (Yes) or dynamic (No)
- **IP Address:** The touch screen IP address
- **Subnet Mask:** The touch screen subnet mask address
- **Default Gateway:** The gateway router address
- **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
- **Network Proxy Settings:** Reports whether network proxy settings are turned on or off for the touch screen

For more information on configuring network settings, refer to [System Setup \(on page 18\)](#).

USB

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

Status Tab - USB

▼ USB	
Accessory Connected	Unknown
Accessory Type	Unknown

The following **USB** information is displayed:

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

Room Scheduling

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

Status Tab - Room Scheduling

▼ Room Scheduling	
Room Status	Unknown
Calendar Sync	Unknown
Fusion Online Status	Unknown

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

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

Status Tab - Display

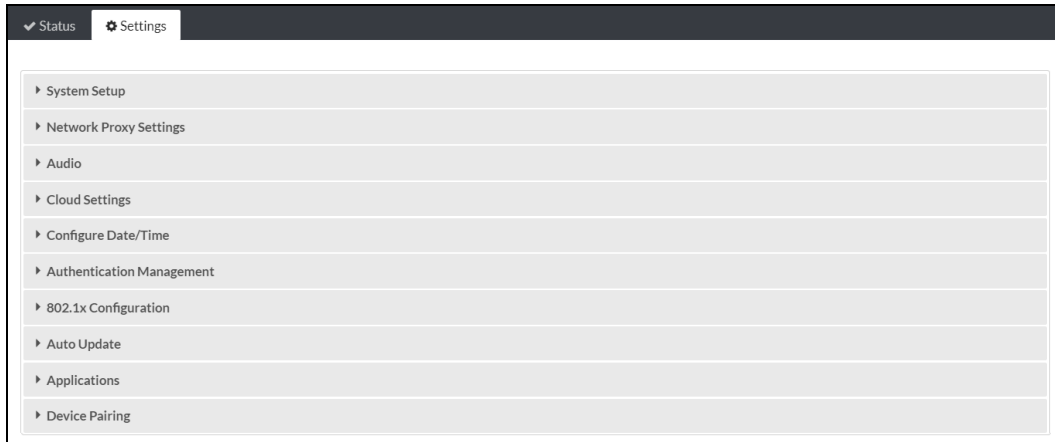
▼ Display	
Display Status	On

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

Settings

Select 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.

System Setup

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

Settings Tab - System Setup

The screenshot displays the 'System Setup' configuration interface, divided into two main sections: 'Network' and 'Device Display'.

Network Section:

- Host Name:** TSW-1060-IH1
- Domain Name:** PRO3-IH1.crestron
- Primary Static DNS:** [Empty field]
- Secondary Static DNS:** [Empty field]
- Adapter 1:**
 - DHCP:** Enabled (toggle switch)
 - IP Address:** 10.167.189.183
 - Subnet Mask:** 255.0.0.0
 - Default Gateway:** 10.0.0.2

Device Display Section:

LCD:

- Auto Brightness:** Off (toggle switch)
- ALS Threshold Value:** 50
- Brightness:** 100
- Brightness High Preset:** 80
- Brightness Medium Preset:** 40
- Brightness Low Preset:** 10

LED:

- Enable LEDs:** On (toggle switch)
- Custom LED Colors:** On (toggle switch)
- 'Available' Brightness:** 0% Red, 100% Green, 0% Blue
- 'Reserved' Brightness:** 100% Red, 0% Green, 0% Blue

(Continued on following page)

Settings Tab - System Setup (continued)

Hard Key

Backlight Disabled

Backlight Brightness

Backlight Auto Brightness Off

ALS Threshold Value

Backlight High Preset

Backlight Medium Preset

Backlight Low Preset

Wakes LCD On

Screensaver and Standby

Standby Timeout

Enable Screensaver Disabled

Enable 24 Hour Digital Clock Disabled

Brightness

Local Setup Sequence Enabled

Camera

Camera Enabled

Fusion Cloud

Fusion Cloud Settings

Fusion Cloud Enabled

Fusion Cloud URL

Network

NOTE: The **IP Address**, **Subnet Mask**, and **Default Gateway** fields are required only if DHCP is turned off.

- **Host Name:** Enter the touch screen hostname.
- **Domain Name:** Enter the fully qualified domain name on the network.
- **Primary Static DNS:** Enter the primary DNS address.
- **Secondary Static DNS:** Enter the secondary DNS address.
- **DHCP:** Turn on the toggle to use DHCP for the Ethernet connection.

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

- **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.

Device Display

- **LCD**
 - **Auto Brightness:** Turn on the toggle to use automatic brightness control for the touch screen LCD display.
 - **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 autobrightness 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 Medium Preset:** Enter a value (1–100) for the LCD display medium brightness preset.
 - **Brightness Low Preset:** Enter a value (1–100) for the LCD display low brightness preset.

- **LED**
 - **Enable LEDs:** Turn on the toggle to use LED lighting when using the touch screen with a room availability accessory (such as the TSW series light bar or the SSC/SSW/SIW series hallway signs).

If turned on, the LEDs on the room scheduling accessory light green to indicate that the room is available or red to indicate that the room is reserved. These default colors can be changed using the **Custom LED Colors** setting.

- **Custom LED Colors:** Turn on the toggle to use custom LED color mixing for the available and reserved scheduling states.
- **'Available' Brightness:** If **Custom LED Colors** is turned on, use the **Red, Green,** and **Blue** sliders to create a custom LED color for the available scheduling state. Color values can be adjusted from 0 to 100% in 10% increments.
- **'Reserved' Brightness:** If **Custom LED Colors** is turned on, use the **Red, Green,** and **Blue** sliders to create a custom LED color for the reserved scheduling state. Color values can be adjusted from 0 to 100% in 10% increments.
- **Hard Key**
 - **Backlight:** Turn on the toggle to use the hard key backlight.
 - **Backlight Brightness:** If **Backlight** is turned on, enter a value (1–100) for the key backlight brightness.
 - **Backlight Auto Brightness:** If **Backlight** is turned on, turn on the toggle to use automatic brightness control for the key backlight.
 - **ALS Threshold Value:** If **Backlight** and **Backlight Auto Brightness** are both turned on, enter a value (1–100) for the backlight button ALS threshold, which is used for switching between high and low autobrightness presets.
 - **Backlight High Preset:** Enter a value (1–100) for the key backlight high brightness preset.
 - **Backlight Medium Preset:** Enter a value (1–100) for the key backlight medium brightness preset.
 - **Backlight Low Preset:** Enter a value (1–100) for the key backlight low brightness preset.
 - **Wakes LCD:** Turn on the toggle to wake the LCD display by tapping the hard keys on or off.
- **Screensaver and Standby**
 - **Standby Timeout:** Enter a standby timeout duration (1–120 seconds) for the touch screen.
 - **Enable Screensaver:** Turn on the toggle to display a screensaver on the touch screen during standby timeout.
 - **Enable 24 Hour Digital Clock:** Turn on the toggle to display a 24-hour digital clock on the touch screen during standby timeout.
 - **Brightness:** Enter a value (1–100) for the LCD display brightness during standby timeout.
 - **Local Setup Sequence:** Turn on the toggle to permit local access to the setup screens using the five-finger press or 1-2-3-4 button sequence.

Camera Settings

Turn on the **Camera** toggle to use the touch screen camera.

Crestron Fusion Cloud Settings

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](#).

- **Crestron Fusion Cloud:** Turn on the toggle to turn on 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 address used to connect the touch screen to the desired Crestron Fusion Cloud server.

Network Proxy Settings

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

Settings Tab – Network Proxy Settings

Network Proxy Settings

Proxy Disabled

HTTP Settings

HTTP Proxy Disabled

HTTP Proxy Address

HTTP Proxy Port

Username

Password

HTTPS Settings

HTTPS Proxy Disabled

HTTPS Proxy Address

HTTPS Proxy Port

Username

Password

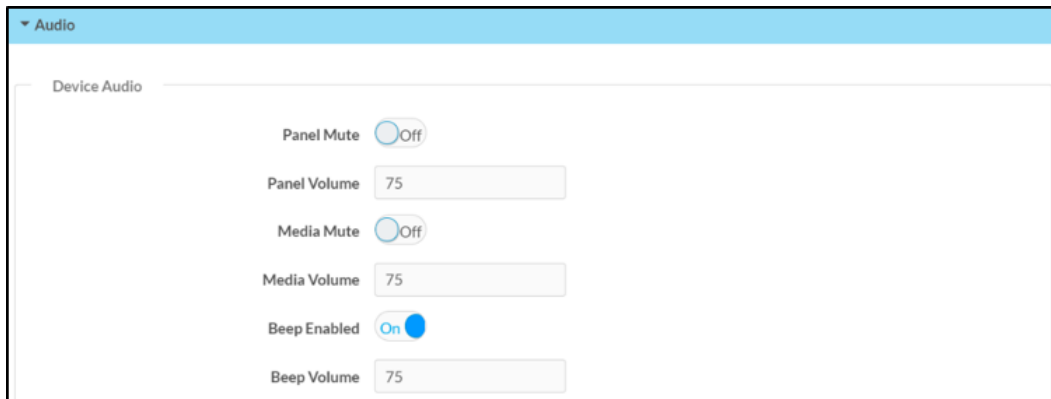
- **Proxy:** Turn on the toggle to configure the touch screen for use with a proxy server.
- **HTTP Settings**
 - **HTTP Proxy:** Turn on the toggle to use an HTTP proxy server.
 - **HTTP Proxy Address:** Enter the IP address of the HTTP proxy server.

- **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:** Turn on the toggle to use 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

Select **Audio** to configure various audio settings for the touch screen.

Settings Tab – Audio Settings



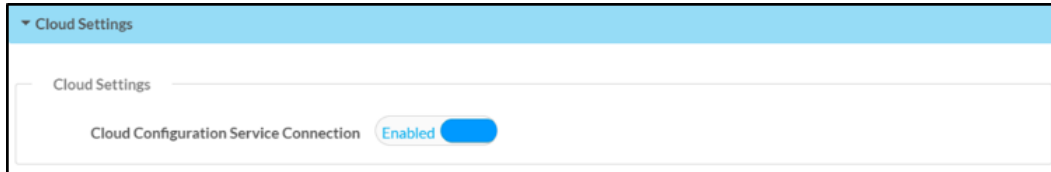
NOTE: The **Media Volume** setting adjusts the H.264 streaming media level in relation to the **Panel Volume** setting.

- **Panel Mute:** Turn on the toggle to mute the touch screen volume.
- **Panel Volume:** Enter a value (1–100) for the touch screen master volume level.
- **Media Mute:** Turn on the toggle to mute the touch screen media volume.
- **Media Volume:** Enter a value (1–100) for the touch screen media volume level.
- **Beep Enabled:** Turn on the toggle to mute the touch screen beep volume.
- **Beep Volume:** Enter a value (1–100) for the touch screen beep volume.

Cloud Settings

Select **Cloud Settings** to turn a connection between the touch screen and an XiO Cloud® service account on or off. A connection to the XiO Cloud service is turned on by default.

Settings Tab – Cloud Settings



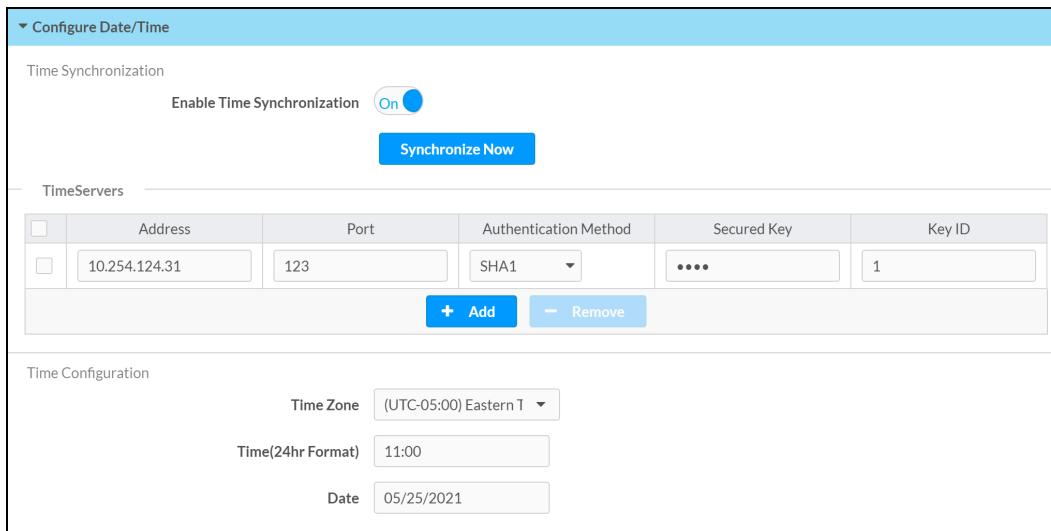
Turn on the **Cloud Configuration Service Connection** toggle to turn on a connection between the touch screen and an XiO Cloud account. This setting is turned on by default.

For more information on connecting to the XiO Cloud service, refer to [Connect to XiO Cloud Service \(on page 40\)](#).

Configure Date/Time

Select **Configure Date/Time** to configure date and time settings for the touch screen.

Settings Tab – Configure Date/Time



- **Time Synchronization**

- **Enable Time Synchronization:** Turn on the toggle to use time synchronization via SNTP (Simple Network Time Protocol).
- **Synchronize Now:** With **Enable Time Synchronization** turned on, select **Synchronize Now** to synchronize the touch screen with the SNTP server(s) entered in the **TimeServers** table.
- **TimeServers:** With **Enable Time Synchronization** turned on, use the provided table to enter information regarding the SNTP server(s) used to synchronize the date and time for the touch screen.
 - Select **Add** to add a new SNTP server entry into the table.
 - Enter the following information for each entry:
 - Enter the SNTP server address into the **Address** text field.
 - Enter the SNTP server port into the **Port** text field.
 - Use the **Authentication Method** drop-down menu to select the authentication method used to access the SNTP server (if one exists).
 - If an authentication method is selected, enter the key used to authenticate against the SNTP server into the **Authentication Key** text field.
 - If an authentication method is selected, enter the ID for the key used to authenticate against the SNTP server into the **Key ID** text field.
 - To remove an entry, fill the checkbox to the left of the table entry, and then select **Delete**.

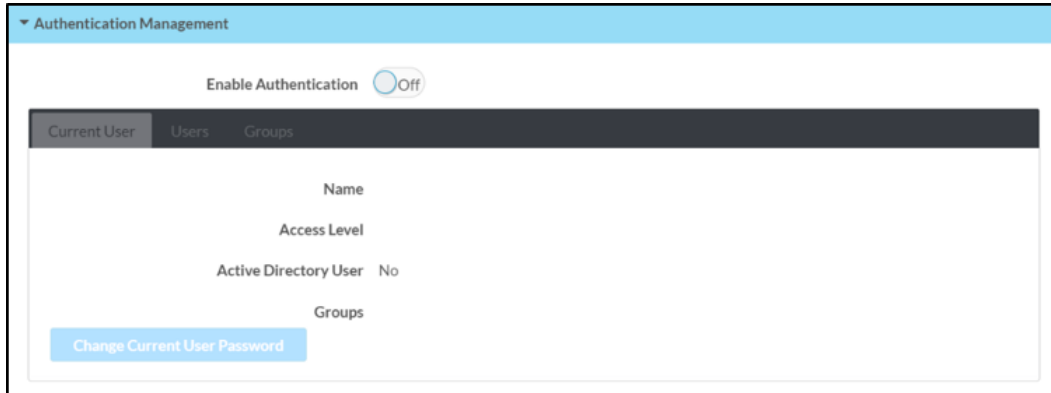
- **Time Configuration**

- **Time Zone:** Select a time zone for 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.

Authentication Management

Select **Authentication Management** to configure authentication management for touch screen users and groups and to set different access levels.

Settings Tab - Authentication Management



Turn on the **Enable Authentication** toggle to use authentication for the touch screen. Authentication is turned on by default.

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.

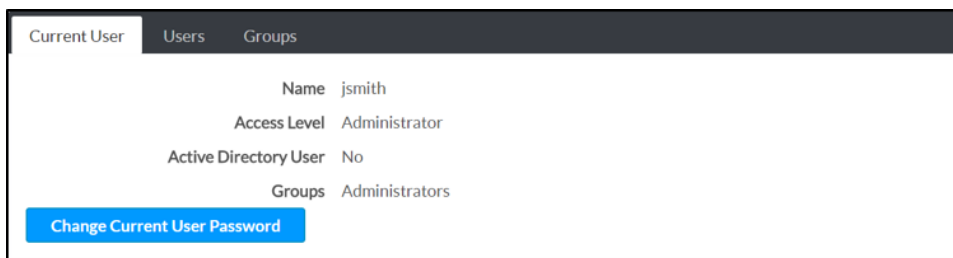
CAUTION: Do not lose the administrator username and password, as the touch screen settings must be restored to factory defaults to reset the username and password.

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

Current User

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

Authentication Management - Current User Tab



The following settings are displayed for the current user:

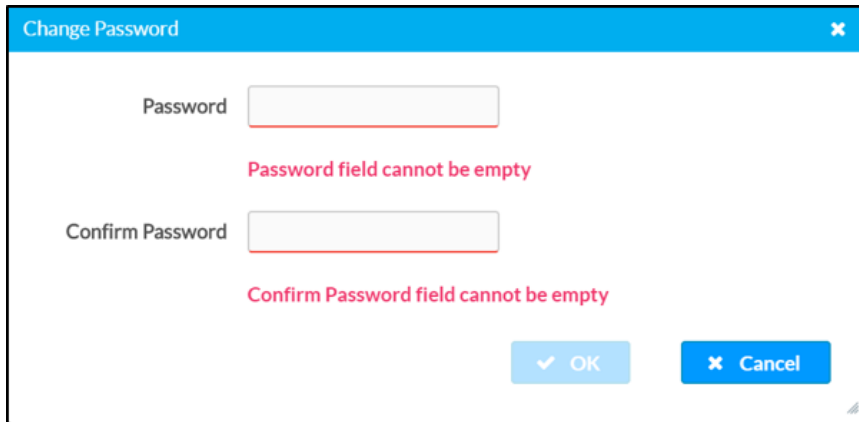
- **Name:** The chosen username
- **Access Level:** The access level granted to the user (Administrator, Programmer, Operator, User, or Connect)
- **Active Directory User:** Reports whether the current user is (**Yes**) or is not (**No**) authenticated through Active Directory® software

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 \(on page 31\)](#).

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

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

Change Password Dialog Box



The screenshot shows a dialog box titled "Change Password" with a blue header and a close button (X) in the top right corner. Inside the dialog, there are two text input fields. The first field is labeled "Password" and is empty. Below it is a red error message: "Password field cannot be empty". The second field is labeled "Confirm Password" and is also empty. Below it is another red error message: "Confirm Password field cannot be empty". At the bottom right of the dialog, there are two buttons: "OK" (with a checkmark icon) and "Cancel" (with an X icon).







Enter a new password in the **Password** field, and then reenter the password in the **Confirm Password** field.

Select **OK** to save the new password, or select **Cancel** to cancel the change.

Users

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

Authentication Management - Users Tab

Username	AD User	Actions
connectaccess	No	  
jsmith	No	  

Enter text in to the **Search Users** field to search for 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 \(on page 31\)](#).

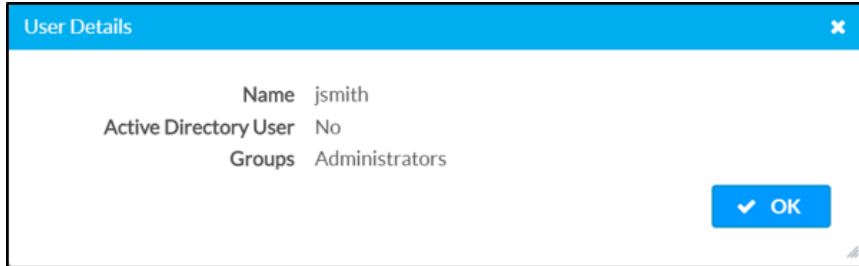
If the touch screen users span multiple pages, use the navigation arrows on the bottom of the page to move forward or backward through the pages, or select a page number to navigate to that page. Additionally, the number of users displayed on each page may be set to 5, 10, or 20 users.

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

User Details

Select 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 dialog box titled "User Details" displays the following information:

Name	jsmith
Active Directory User	No
Groups	Administrators


An "OK" button with a checkmark icon is located at the bottom right of the dialog box.

The following settings are displayed for the current user:

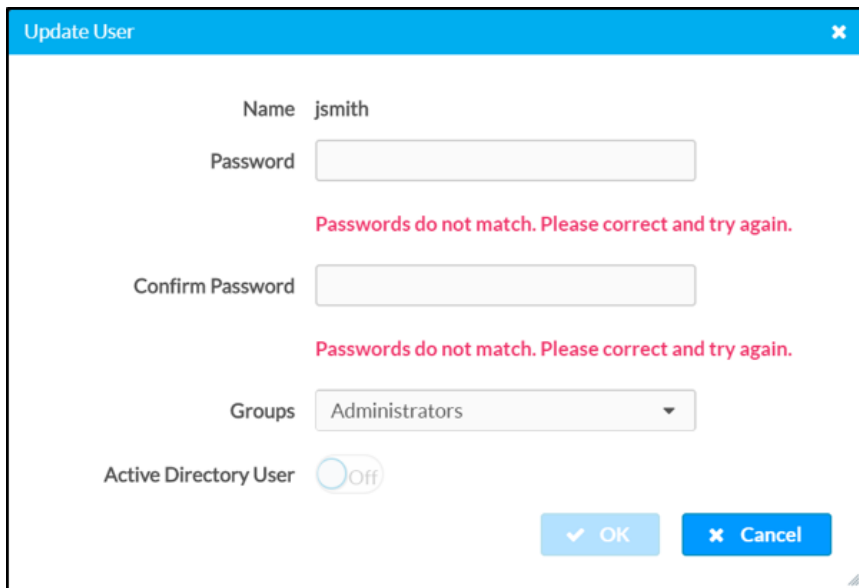
- **Name:** The chosen username
- **Active Directory User:** Reports whether the user is (**Yes**) or is not (**No**) authenticated through Active Directory
- **Groups:** Lists any groups that contain the user

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

Update User

Select 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 dialog box titled "Update User" displays the following information and controls:

Name	jsmith
Password	<input type="password"/>
Passwords do not match. Please correct and try again.	
Confirm Password	<input type="password"/>
Passwords do not match. Please correct and try again.	
Groups	Administrators
Active Directory User	<input type="radio"/> Off

Buttons for "OK" and "Cancel" are located at the bottom right of the dialog box.

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

- **Name:** The chosen username
- **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 \(on the facing page\)](#).
- **Active Directory User:** Turn on the toggle to use authentication via Active Directory for the selected user.

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

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

Delete User

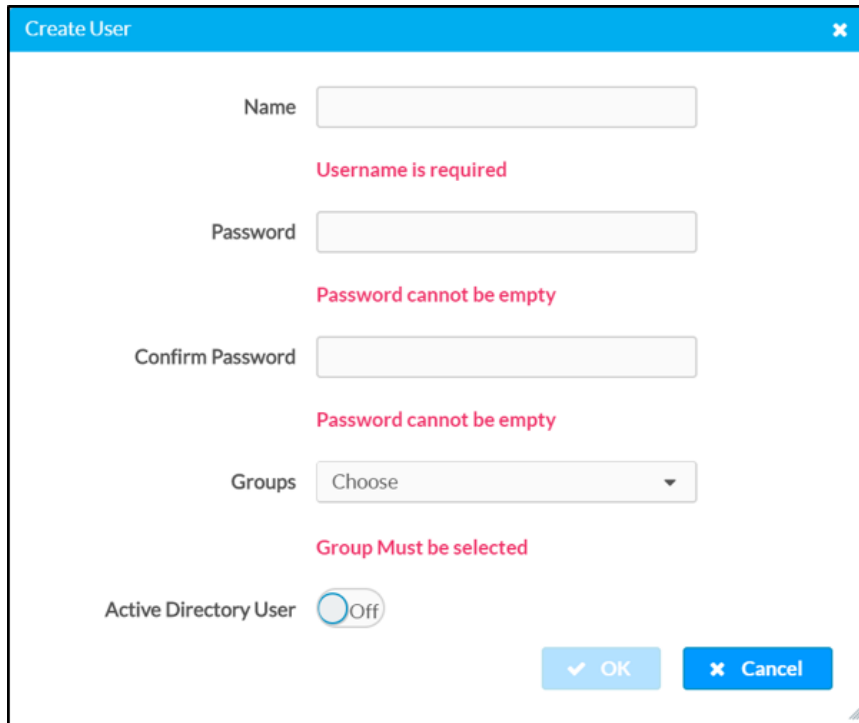
Select the trashcan icon  in the **Actions** column to delete the user.

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

Create User

Select **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



Create User [Close]

Name
Username is required

Password
Password cannot be empty

Confirm Password
Password cannot be empty

Groups
Group Must be selected

Active Directory User Off

Use the following settings to create a new user:

- **Name:** Enter a username.
- **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 \(below\)](#).
- **Active Directory User:** Turn on the toggle to use authentication via Active Directory for the user.

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

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

Groups

Select 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

Group Name	AD Group	Access Level	Actions
Administrators	No	Administrator	
Connects	No	Connect	
Operators	No	Operator	
Programmers	No	Programmer	
Users	No	User	

Enter text in to the **Search Groups** field to search for 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 extra 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**)

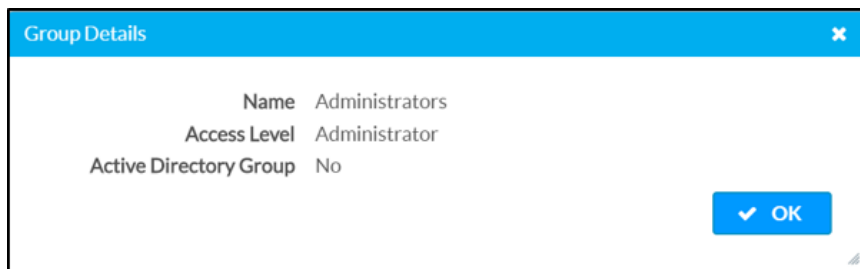
If the touch screen groups span multiple pages, use the navigation arrows on the bottom of the page to move forward or backward through the pages, or select a page number to navigate to that page. Additionally, the number of groups displayed on each page may be set to 5, 10, or 20 users.

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

Group Details

Select 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



The following settings are displayed for the current group:

- **Name:** The chosen group name
- **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

Select **OK** to return to the **Authentication Management > Groups** page.

Delete Group

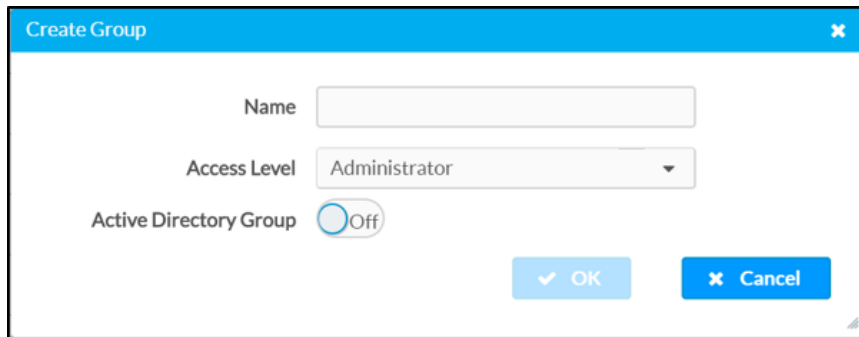
Select the trashcan icon  in the **Actions** column to delete the group.

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

Create Group

Select **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.

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:** Select an access level for the group and its users from the drop-down menu.
- **Active Directory Group:** Turn on the toggle to use authentication via Active Directory for the group.

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

802.1x Configuration

Select **802.1x Configuration** to configure IEEE 802.1X network authentication for touch screen security.

Settings Tab - 802.1x Configuration

IEEE 802.1x Authentication Enabled

Authentication Method: EAP MSCHAP V2- pas

Domain:

Username: Username cannot be empty

Password: Password cannot be empty

Enable Authentication Server Validation Disabled

Select Trusted Certificate Authority(s)

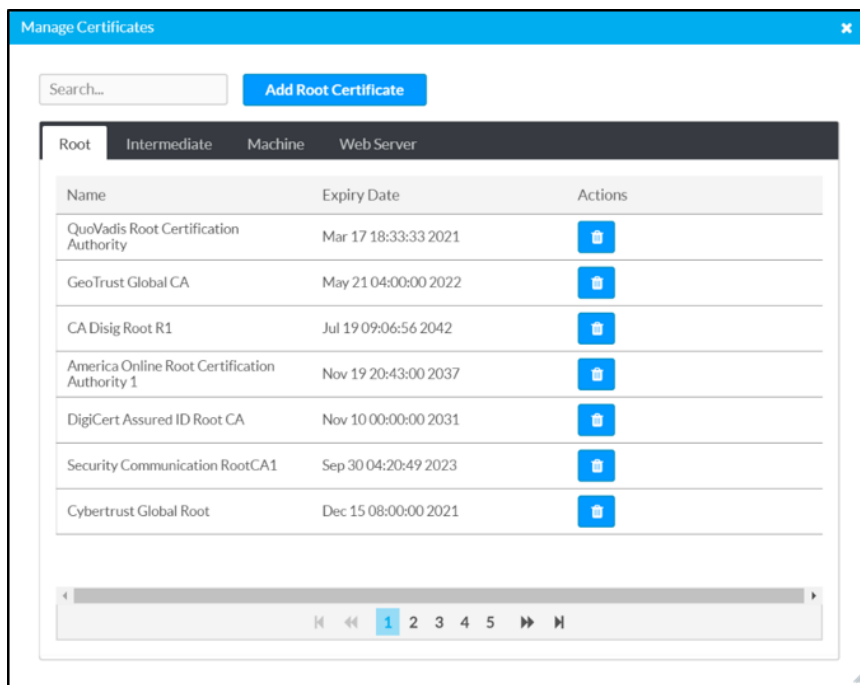
- Amazon Root CA 4
- Atos TrustedRoot 2011
- Autoridad de Certificacion Firmaprofesional CIF A62634068
- Baltimore CyberTrust Root
- Buypass Class 2 Root CA
- Buypass Class 3 Root CA
- CA Disig Root R2
- CFCA EV ROOT
- COMODO Certification Authority
- COMODO ECC Certification Authority
- COMODO RSA Certification Authority
- Certigna
- Certinomis - Root CA
- Certum Trusted Network CA 2
- Certum Trusted Network CA

- **IEEE 802.1x Authentication:** Turn on the toggle to use 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:** Turn on the toggle to use server validation for increased security.
- **Select Trusted Certificate Authorities:** Select trusted CAs (Certificate Authorities) from the provided CAs to be used for server validation:
 - Select 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.
 - Select 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** 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




Select 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:

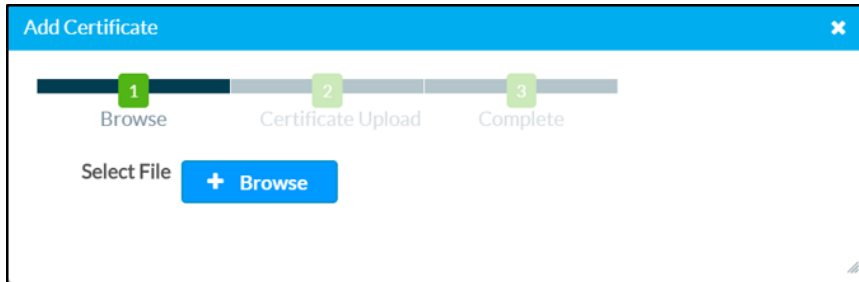
- **Name:** The CA name
- **Expiry Date:** The date and time that the CA is set to expire

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.

Select 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. Select **Yes** to delete the certificate or **No** to cancel.

Select **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. Select **Browse**.
2. Navigate to the CA file on the host computer.
3. Select the CA file, and then select **Open**.
4. Select **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, select **OK**.

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

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

Auto Update

Select **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

The screenshot shows the 'Auto Update' settings panel. At the top, there is a toggle switch for 'Auto Update' which is currently 'Disabled'. Below this is a text input field for 'Custom URL Path' containing the URL 'https://crestrondevicefiles.blob.core.windows'. Under the 'Schedule' section, there are three input fields: 'Day of Week' set to 'Daily', 'Time of Day' set to '02:36', and 'Poll Interval' set to '0'. At the bottom of the panel is a blue 'Update Now' button.

- **Auto Update:** Turn on the toggle to use automatic firmware updates.
- **Custom URL Path:** Enter the address 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.
- Select **Update Now** to check the update server for new firmware and to update the touch screen immediately if new firmware is available.

Applications

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

Settings Tab - Applications

The screenshot shows the 'Applications' settings panel. It features a dropdown menu for 'Application Mode' with 'User Project' selected. Below this, the text 'User Project' is displayed. At the bottom, there is a dropdown menu for 'Language' with 'en-US' selected.

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, select **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. Select **Yes** to reboot the touch screen now or **No** to reboot the touch screen later. The touch screen reboots with the new application running.

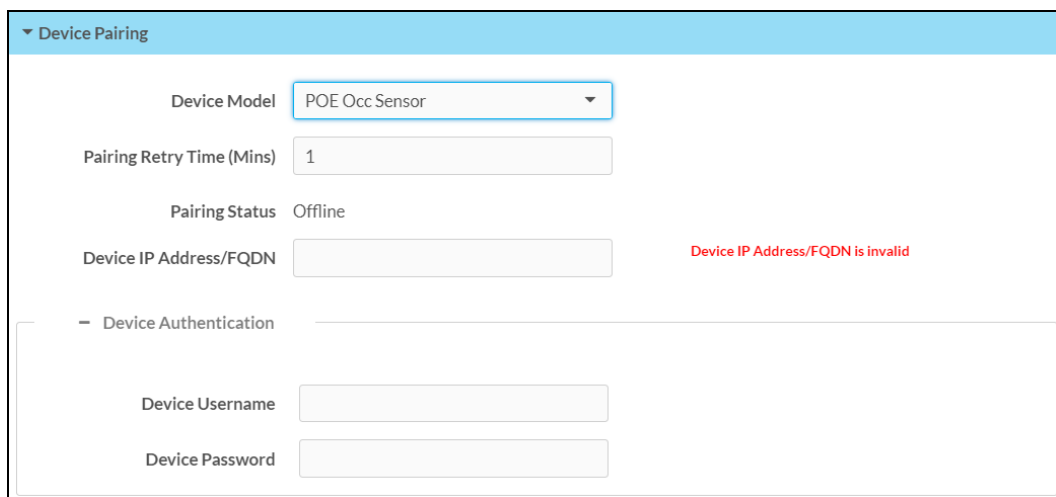
NOTE: Each application uses a unique setup procedure for registering and configuring the application. For more information, refer to [Application Setup \(on the facing page\)](#).

Device Pairing

Select **Device Pairing** to configure settings for pairing the touch screen to a CEN-ODT-C-POE. The CEN-ODT-C-POE provides local occupancy reporting for supported room scheduling apps.

NOTE: For more information on the occupancy sensor, refer to the [CEN-ODT-C-POE Supplemental Guide](#).

Settings Tab - Device Pairing



The screenshot shows the 'Device Pairing' settings tab. It includes a dropdown menu for 'Device Model' set to 'POE Occ Sensor', a text input for 'Pairing Retry Time (Mins)' with the value '1', and a 'Pairing Status' indicator showing 'Offline'. Below this is a text input for 'Device IP Address/FQDN' with a red error message 'Device IP Address/FQDN is invalid'. A section titled 'Device Authentication' is expanded, showing text inputs for 'Device Username' and 'Device Password'.

- **Device Model:** Use the drop-down menu to select **POE Occ Sensor**.
- **Pairing Retry Time (Mins):** Enter a duration (in minutes) that must elapse before the CEN-ODT-C-POE reattempts to pair to the touch screen.
- **Pairing Status:** Reports whether the CEN-ODT-C-POE is paired to the touch screen (**Online**) or not (**Offline**).
- **Device IP Address/FQDN:** Enter the IP address or fully qualified domain name of the CEN-ODT-C-POE. This is required for device pairing.
- **Device Authentication:** Enter authentication credentials for the CEN-ODT-C-POE (if required):
 - **Device Username:** Enter a valid username used to access the device.
 - **Device Password:** Enter a valid password used to access the device.

Application Setup

The touch screen ships with a variety of preinstalled applications that offer 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
- [22 Miles® ADSign](#) 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
- [Pepperdash® room scheduling](#) application
- [Robin® room scheduling](#) application
- [SharingCloud™ room scheduling](#) application
- [Space Connect™ room scheduling](#) application
- [SpacelQ® room scheduling](#) application
- [Teem® room scheduling](#) application
- [Zoom Rooms™ conferencing control and Zoom™ room scheduling](#) application

NOTE: Support for more 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: Extra subscriptions 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](#) permits supported devices across an enterprise to be managed and configured from one central and secure location in the cloud. Supported Crestron® devices are configured to connect to the service out of the box.

Use of the service requires a registered XiO Cloud account. To register for an XiO Cloud account, refer to www.crestron.com/Support/Tools/Licensing-Registration/XiO-Cloud-Registration-Room-Licenses.

NOTE: The device may be disconnected from the XiO Cloud service by navigating to the **Cloud Services** tab in Crestron Toolbox™ software (**Functions > Device Info > Cloud Services**). For details, refer to the Crestron Toolbox help file.

To connect the device to the XiO Cloud service:

1. Record the MAC address and serial number that are labeled on the shipping box or the device. The MAC address and serial number are required to add the device to the XiO Cloud service.

NOTE: If the device has multiple MAC addresses, use the MAC address that is providing the primary connection back to the network. For most devices, the Ethernet MAC address should be used. However, if your device is connecting to the network over a different protocol (such as Wi-Fi® communications), use the MAC address for that protocol instead.

2. Log in to your XiO Cloud account at portal.crestron.io.
3. Claim the device to the XiO Cloud service as described in the [XiO Cloud User Guide](#).

Select the device from the cloud interface to view its status and settings. The device may now also be managed and assigned to a group or room. For more information, refer to the [XiO Cloud User Guide](#).

NOTE: For XiO Cloud accounts with room-based licenses, the device must be added to a licensed room before its status and settings can be viewed.

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