Crestron
Touch Screens with RoomView®
Scheduling for Crestron Fusion®
Operations Guide

CRESTRON®

Contents

Touch Screens with RoomView Scheduling for Crestron Fusion

Introduction

Crestron® touch screens with RoomView® scheduling work directly with the Crestron Fusion® Enterprise Management Platform to provide powerful enterprise-wide room scheduling solutions. Installed outside the entrance to every meeting room, the touch screen provides an immediate view of each room's availability with the ability to look up the calendar for any room on the network and even book the room right on the spot. The dual color interface and buttons give a clear indication of a room's status at a glance, lighting green when the room is available and red when it is booked. The touch screen's contoured shape ensures that even when mounted in a narrow hallway the buttons remain clearly visible at a distance from either side.

Different touch screen models have different features. The amount of buttons varies with different models. Some have a built-in proximity sensor, and others can have occupancy sensors attached. For more information, consult the guide that came with the touch screen. Guides are available at www.crestron.com/manuals.

For more information on the Crestron Fusion interface, refer to the Touch Screens with RoomView Scheduling for Crestron Fusion User Guide (Doc. 7553) at www.crestron.com/manuals.

For more information on Crestron Fusion, refer to the Crestron Fusion Getting Started Guide (Doc. 7502) at www.crestron.com/manuals.

NOTE: This document references RoomView Scheduling software version 2.1 or later.

Touch Screen Overview

The touch screen displays a Schedule View on-screen at all times for a quick at-a-glance view of the reservations and availability of the room. This new Schedule View consists of a swipe-able list of items on the schedule. Typically the Schedule View shows 48 hours of room schedule data starting from midnight of the current day through midnight of the following day.

There are three possible types of items in the list:

- **Available** indicates a contiguous block of free time in the room's schedule.

- **Reserved** indicates a scheduled use of the room on the calendar.

  > **NOTE:** The word "Reserved" ordinarily does not appear on the schedule ribbon unless the calendar entry or the room panel is private. Instead, the item either contains the subject entered by the meeting organizer and the organizer's name or, if no information is entered, "Default Subject" and "Default Organizer" are displayed on the reservation.

- **More** indicates the schedule may have additional items.

When an item on the schedule is an active item at the current time, it is highlighted by a light blue border. A blue progress bar appears on the schedule timeline above it. Typically, this item appears in the leftmost or default item position on the Schedule View when approaching the touch screen. Depending on the particular model, certain hard button operations on the touch screen refer to the active item, such as the + (or **MORE**) hard button, which is equivalent to touching the **Details** soft button on the pull-up toolbar; others reference the default item, such as the ↵ (or **SELECT**) hard button.

The user may scroll through the Schedule View to review the items on the schedule. Scrolling forward or backward can be accomplished by swiping right-to-left or left-to-right or by pressing the down or up hard buttons, respectively. Selecting an item can be accomplished by touching the item; pressing the ↵ (or **SELECT**) hard button (if the touch screen has one) is the equivalent of tapping on the default item currently displayed in the leftmost position.

Touch Screen Setup

The touch screen supports a direct connection to Crestron Fusion. To establish this connection, Crestron Fusion needs the device's IP address and certain other settings have to be made. To determine the device's IP address, the touch screen must be put into Setup mode.

1. Enter Setup mode either by touching the screen while booting the unit or, if the touch screen is already running, by pressing the first four hard buttons on touch screen in sequence twice (i.e., 1, 2, 3, 4, 1, 2, 3, 4) within five seconds. (On touch screens with buttons on the left and right sides of the display, press the first four hard buttons on the left side.)

   NOTE: For details on the setup options for the touch screen, refer to its configuration guide (Doc. 7414) at www.crestron.com/manuals.

   NOTE: Set the touch screen to **User Project Mode Off** to load the Crestron RoomView® Scheduling display project installed with the firmware. Updates to the firmware OS may also upgrade the built-in scheduling project. If another project is loaded to the touch screen, touch **User Project Mode Off** to change the mode to **On**. Additionally, the touch screen must not have any IP table entries from an old project, as unresolved connections may keep RoomView Scheduling offline (even though Crestron Fusion will show the scheduling touch screen asset as online).

2. Note the IP address listed on the setup screen.

   NOTE: DHCP is enabled by default. The network assigns an IP address as soon as it detects the device. However, static IP addressing is recommended for permanent installations.

3. Touch **Save & Exit** to exit Setup mode and start the device.

4. After the touch screen reboots, the screen displays "Offline" as shown in the following illustration.

   Offline Screen
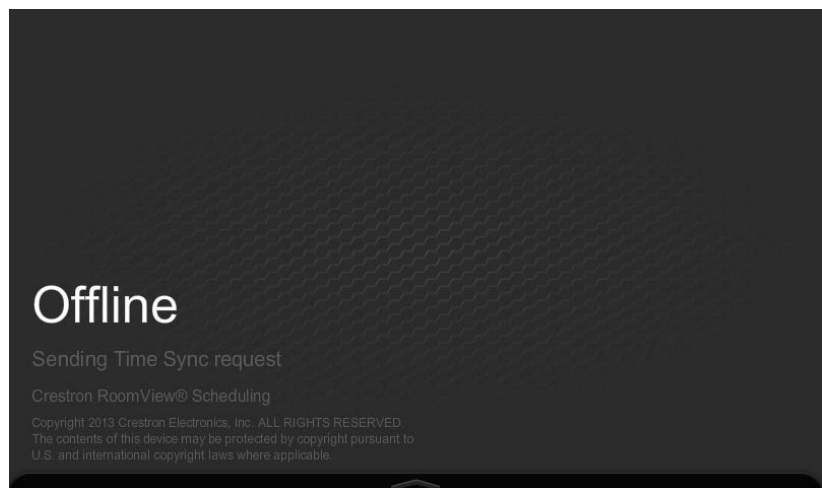
5. Using a web browser, navigate to the facility's Crestron Fusion website to add the touch screen to Crestron Fusion.

6. Log in to Crestron Fusion using the username and password provided by the local system administrator.

7. Navigate to the **Setup** screen. When the **Setup** screen loads, the **Rooms** tab at the bottom of the tree view is selected by default, as is the root node of the tree.

8. In the room tree, find the room to associate with the touch screen.

9. Touch the desired room name to highlight it, and then click **Add Asset**. When the **Add Asset** window opens, the **Asset Details** tab is open by default.

10. Enter a name in the **Name** field and select **Touchpanel** from the **Type** drop-down menu.

Add Asset Window

11. Click the **…** button adjacent to the **Make** field. The **Pick make and model** window opens.

Pick Make and Model Window

> **NOTE:** If the touch screen is not shown, download and install the driver file. In Crestron Fusion setup, under **Objects/Asset Types**, check **Touchpanel** and choose **Edit**. Select the **Drivers** tab and choose **Add Driver**. Browse to the driver file and choose **Upload**. Click **Save & Close**. The touch screen appears in the **Pick make and model** window.

12. Select the touch screen model being used and click **OK**. The **Make** and **Model** fields are filled in and grayed out.

> **NOTE:** For best results, choose the driver that best matches the version of RoomView Scheduling software loaded on the touch screen. If it is not already installed in the version of Fusion being used, the latest driver can be downloaded from the Crestron website. Log in to the website and refer to the **Resources** tab on the product page for the model being used. In the **Setup** section of the web client, under **Objects** > **Asset Types**, select the touch screen and choose **Edit**. Then, select the **Drivers** tab and choose **Add Driver**. Brose to the downloaded driver file and choose **Upload**.

13. Select **Network** from the **Connection Type** drop-down menu.

14. Enter the IP address noted in step 2 in the **IP Address/Hostname** field.

15. Click **Save & Close** to commit the changes or **Close** to abandon them.

> **NOTE:** For more information regarding adding an asset during the process of adding a room to Crestron Fusion, refer to the "Add/Edit/Delete a Room" topic in the Crestron Fusion online help.

Updating the Crestron RoomView Scheduling Project

Periodically, updates to the touch screen's Crestron RoomView Scheduling project and firmware are posted to the Crestron website. These updates must be installed according to the following procedure.

1. Download the latest supported .puf file from www.crestron.com/software.

2. Run the update procedure as described in the Crestron Toolbox™ help file.

3. Once the .puf file has been processed, enter Setup mode as described in step 1 of "Touch Screen Setup" on page 3.

4. Ensure that the User Project mode is set to **Off**.

5. Touch **Save & Exit**. The Crestron RoomView Scheduling project loads.

6. Confirm the version number when the **Offline** screen is displayed.

Configuration

Configure the features of the touch screen user interface using a series of hidden settings screens. To access these screens, touch and hold the lower right corner of the toolbar in the area where the gear icon is shown in the following image. After 5 seconds, the gear icon appears and must be pressed quickly in order to access the settings screens.

Schedule View (Pull-up Toolbar Showing the Gear Icon)
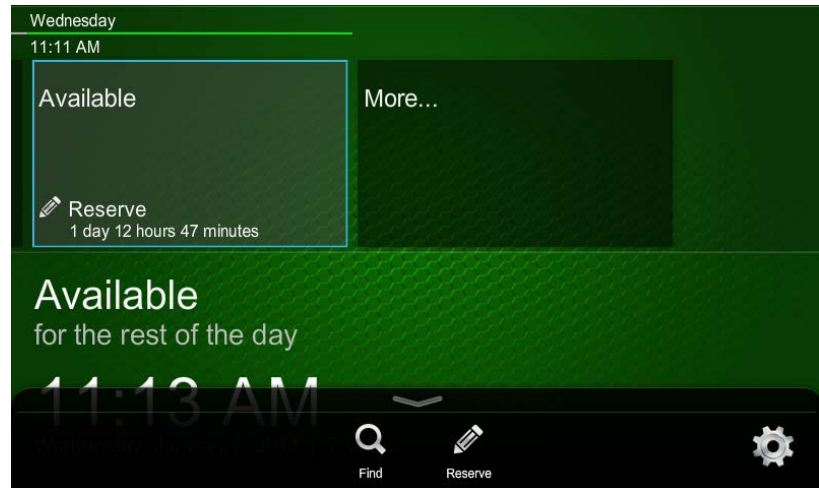
The pull-up toolbar at the bottom of the display provides access to all of the touch screen's configuration settings. (Crestron Fusion also offers the option to set the toolbar so it is always visible.) Touch an icon to display its associated screen. Touch the hard button for "close" or touch the "x" in the upper right corner to exit the configuration screens and toolbar.

Schedule View (Always-Visible Toolbar Showing the Gear Icon)
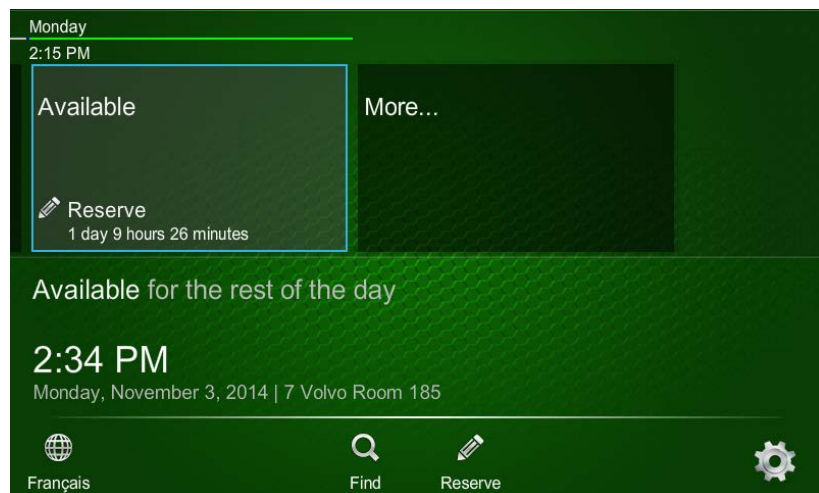
NOTE: If the number of settings icons does not fit on the touch screen, use the < and > arrows to navigate through the icons for the complete list.

NOTE: The user interface might look different depending on the settings.

Room Configuration Screen (Showing the Toolbar)
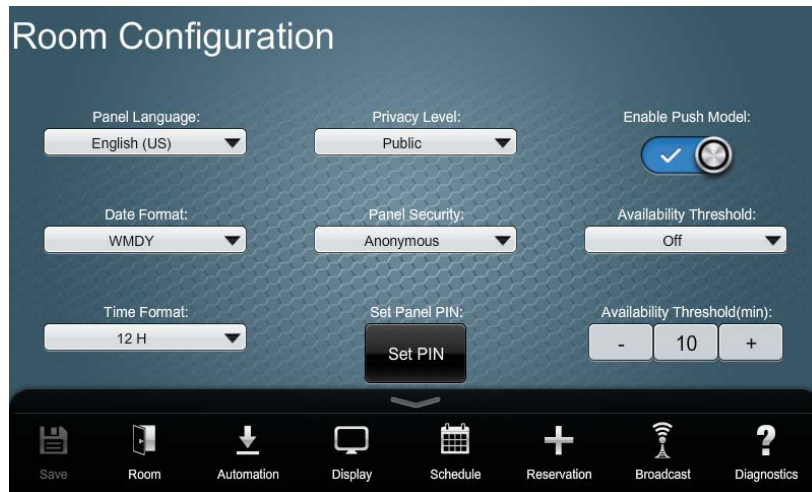
Before exiting the settings screens, touch **Save** to save changes. If a setting is changed that is also a custom property defined in Crestron Fusion, a warning is displayed to indicate that one or more of the changes entered was overwritten by the settings received from Crestron Fusion. If the settings screen is exited, either by pressing the hard button for "close" or after an inactivity timeout, unsaved settings are still remembered by the touch screen unless it is rebooted. Upon re-entering the toolbar, touch **Save** to save the changes previously made.

The following sections indicate the settings available on each of the settings screens. The accompanying images show the defaults for each setting. The "Custom Property" columns in the tables that follow correspond to the tables found in "Custom Properties" on page 20. Refer to those tables for additional details on the setting values.

Room Configuration

The following image shows the default room configuration settings.

Room Configuration Screen
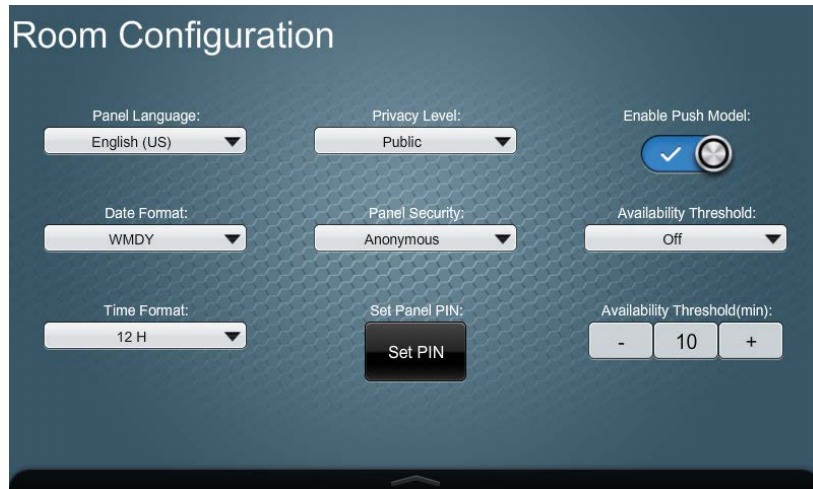
The following table explains the function of the **Room Configuration** screen controls.

Room Configuration Screen Controls

CONTROL	FUNCTION	CUSTOM PROPERTY
Panel Language	Select one of the installed languages. Languages currently available are Chinese (Simplified and Traditional), Danish, Dutch, English (US), English (UK), French, German, Hebrew, Italian, Japanese, Korean, Norwegian, Portuguese (Brazil and Portugal dialects), Russian, Spanish, and Swedish.	DisplayLanguage
Date Format	Set the displayed date format.	DateFormat
Time Format	Display the time in either 12 or 24 hour format.	TimeFormat
Privacy Level	Privacy settings allow the user to control how much information is displayed on the touch screen for each meeting. Privacy is a touch screen-wide setting and affects how all meetings are displayed. The privacy feature includes four levels: public, semi-private, fully-private, and custom. When set to **Public**, the touch screen shows the reservation subject and the organizer. When set to **Semi-Private**, the touch screen shows the organizer but the subject and attendees are not shown. When set to **Private**, the touch screen does not display the subject or organizer. **Custom** allows Crestron Fusion to set custom properties that individually specify whether to show or hide the subject, organizer and attendees from the schedule ribbon/details screen.	RoomPrivacyLevel

(Continued on following page)

Room Configuration Screen Controls (Continued)

CONTROL	FUNCTION	CUSTOM PROPERTY
Panel Security	Select **Anonymous**, which allows anyone to access all touch screen features, or **Touch screen PIN**, which restricts touch screen features to only those users entering the proper PIN.	PanelSecurityLevel
Set Panel PIN	Open the **Enter a 4-Digit PIN** screen to select a Personal Identification Number for access to the touch screen.	PanelPin
Enable Push Model	Allow schedule updates to be "pushed" from Crestron Fusion to the scheduling touch screen, so the schedule is updated in near real time.	EnPushModel
Availability Threshold	Define a period of time to make an available room appear to be reserved prior to the start of a reservation. When set to **Full**, the room is considered reserved starting at the availability threshold time in advance of the meeting's scheduled start time. The touch screen cannot be reserved within this availability threshold time period. When set to **Off**, the availability threshold is disabled. The availability is determined by the start of the next reservation.	AvailabilityThresholdRoomState
Availability Threshold (min)	Set the time period within which the room cannot be reserved or listed as available in a room search in advance of a reservation start time. Each touch of the **-** and **+** buttons reduces or advances time period by 1 minute.	AvailabilityThresholdMin

Automation

The following image shows the default automation settings.

Automation Screen

The following table explains the function of the **Automation** screen controls.

Automation Screen Controls

CONTROL	FUNCTION	CUSTOM PROPERTY
Motion Sensor Type	The touch screen has connectors that allow a motion sensor to be physically wired to the touch screen.[1] Motion sensor settings on this screen specify how motion is detected and managed by the device. There are two sensor types: basic and intelligent. A basic sensor detects when motion occurs in a room and when motion no longer occurs. Every time motion is detected in the room, the sensor sends a signal to the touch screen. As soon as motion is no longer detected, the sensor sends a signal to the touch screen. The touch screen tracks the occupied state of the room based on receiving a motion or no-motion signal from the sensor. A basic sensor has no internal timeout, so the touch screen provides a timeout factor for use with a basic sensor. The touch screen will hold the occupancy state for the specified timeout value regardless of how many motion or no-motion signals are detected during the time interval. When no motion has been detected for the entire duration of the timeout period, the occupancy state will revert to unoccupied. An intelligent sensor also sends motion and no-motion signals to the touch screen. With an intelligent sensor, the timeout for determining when to switch from occupied to unoccupied is contained within the sensor instead of originating in a signal from the touch screen.	MotionSensorType

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Automation Screen Controls (Continued)

CONTROL	FUNCTION	CUSTOM PROPERTY
Motion Sensor Type (Continued)	Therefore, the timeout value specified in the touch screen is not used with an intelligent sensor. An intelligent sensor will simply signal the touch screen once when motion is detected, causing the touch screen to set its state to occupied. The sensor will signal the touch screen once when motion is no longer detected, causing the touch screen to set its state to unoccupied. No additional touch screen logic is used. Set Crestron occupancy sensors to **Intelligent** and **Normally Open**.	MotionSensorType
Motion Sensor Output	The two choices on this drop-down, **Normally Open** and **Normally Closed**, indicate the initial state of the motion sensor.[1] When the motion sensor is set to **Normally Open**, the sensor indicates motion by a basic contact closure. When the sensor is set to **Normally Closed**, the senor indicates motion by opening. Refer to the documentation that came with the sensor.	MotionSensorOutput
Motion Sensor Connection	The options are **Local**[2] and **Crestron Fusion**. When **Local** is selected, the motion sensor[1] is physically attached to the touch screen. When **Crestron Fusion** is selected, the sensor is attached to another device, such as a control processor, and the touch screen is receiving occupancy information through Creston Fusion.	MotionSensorConnection
Require Check-In	Toggle the check-in feature on the touch screen. When viewing reservation information, an attendee must access the reservation details screen and touch the **Check In** button before the reservation to confirm the booking.	ForceOrgCheckIn
Check-In Time (min)	Set the time before the meeting in which an attendee can check-in to a reservation. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	ForceOrgCheckInMin
Check-In End (min)	If the organizer does not check in before the **Check-In End** time period is up, the reservation is declined. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	ForceOrgCheckInEndMin
Enable Start Button	Enable the **Start Now** button on the pull-up toolbar or the reservation details screen.	EnStartMeeting
Decline For No Show	When enabled, the reservation is declined if the organizer does not check in before the booking or during a preset grace period.	EnDeclineForNoShow
Allow Start Before (min)	Set the number of minutes before a reservation when the reservation can be started. This disables the **Decline for No Show** occupancy for that meeting, normally accessed by using the **Start** button on the pull-up toolbar or the reservation details screen. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	StartMeetingBtnBeforeStart

(Continued on following page)

Automation Screen Controls (Continued)

CONTROL	FUNCTION	CUSTOM PROPERTY
Allow Start After (min)	Set the number of minutes after a reservation has begun when the **Start** button (allowing the reservation to be started late) is enabled on the pull-up toolbar or the reservation details screen. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	StartMeetingBtnAfterStart
Decline reservations up to (min)	Limit **Decline for No Show** to meetings up to and including the specified duration in minutes. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	DeclineForNoShowAppliesDur

1. If available in hardware (not all touch screen models have this feature).

2. Option not available if the occupancy sensor is utilized.

> **NOTE:** When reserving another room through the touch screen, it is possible to lose the reservation if **Decline for No Show** is enabled and the **Check-in Time** is set to 0 minutes or **Require Check-in** is enabled and **Check-in Time** is set to 0 minutes. As a result, the touch screen at the remote room may get the meeting and immediately decline/expire the new reservation, perceiving it as a no show or a failed check-in.

Display

The following image shows the default display settings.

Display Screen
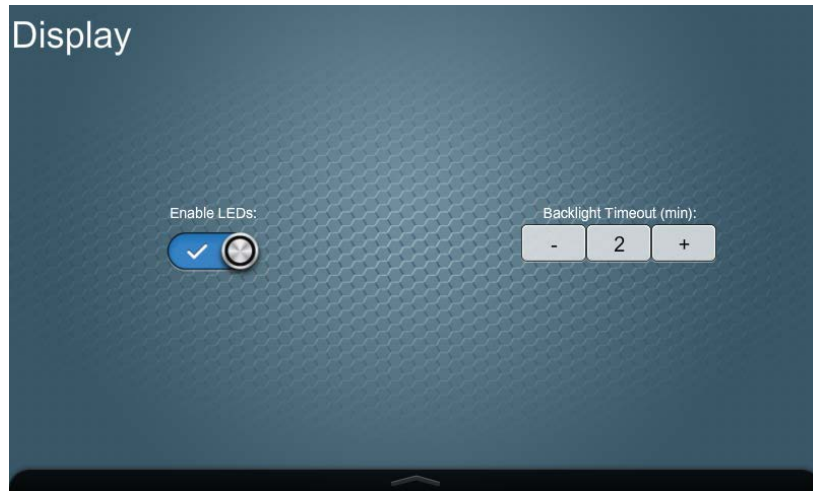
The following table explains the function of the **Display** screen controls.

Display Screen Controls

CONTROL	FUNCTION	CUSTOM PROPERTY
Enable LEDs	Enable and disable the LEDs on either side of the touch screen.	LEDEnable
Backlight Timeout (min)	Control the amount of time (in minutes) until the touch screen display is put into standby without user input. Each touch of the **-** and **+** buttons reduces or advances the time period by 5 minutes.	BacklightTimeout

NOTE: The touch screen's **Standby Timeout** setting in the setup project or firmware will be overridden by the **Backlight Timeout** setting. Set this value using the **Display** screen controls of the RoomView Scheduling software, not at the setup project or firmware level.

Schedule

The following image shows the default schedule settings.

Schedule Screen
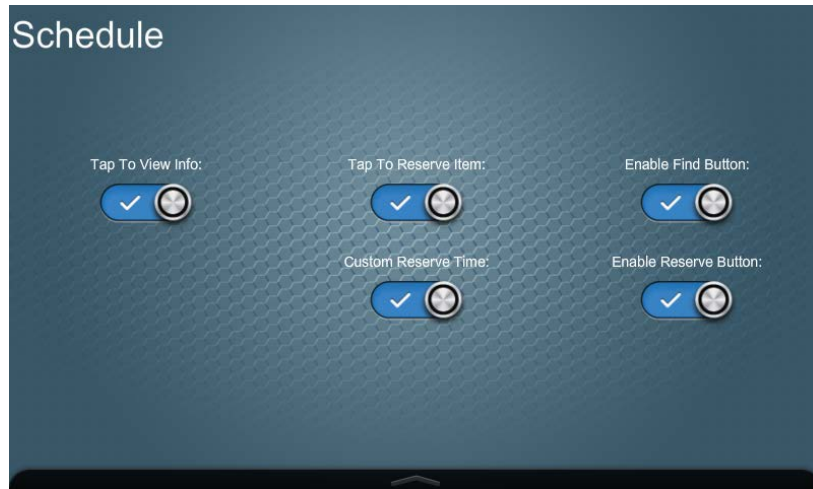
The following table explains the function of the **Schedule** screen controls.

Schedule Screen Controls

CONTROL	FUNCTION	CUSTOM PROPERTY
Tap To View Info	When enabled, a reserved item can be viewed by touching it on the Schedule View. When disabled, a reserved item does not respond to touch and can be viewed by pressing the **Details** button, unless disabled by another setting.	MenuDayViewEnInfo
Tap To Reserve Item	When enabled, an available item can be reserved by touching it on the Schedule View. When disabled, the **Reserve** button can still be used to reserve the room, unless it is disabled by another setting.	MenuDayViewEnReserve
Custom Reserve Time	When disabled, the **Custom** button is not displayed on the **Reserve** screen and only the preset times can be selected.	ReserveCustomEn
Enable Find Button	When disabled, the **Find** button is not displayed on the pull-up toolbar at the bottom of the display.	FindBtnEnable
Enable Reserve Button	When disabled, the **Reserve** button on the pull-up toolbar is not displayed.	MenuShowReserveNow

Reservation

The following image shows the default reservation settings.

Reservation Screen
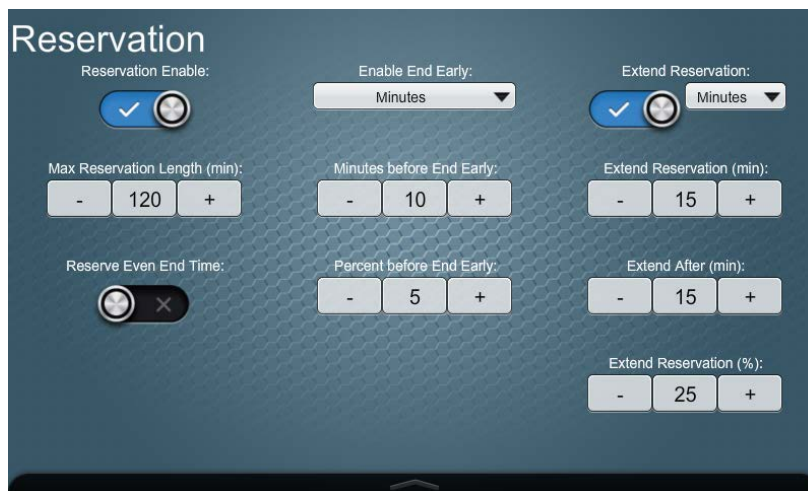
The following table explains the function of the **Reservation** screen controls.

Reservation Screen Controls

CONTROL	FUNCTION	CUSTOM PROPERTY
Reservation Enable	Toggle the ability to reserve a room.	ReservationEnable
Max Reservation Length (min)	The number selected in this field limits the number of minutes that the room can be reserved from the touch screen. It also influences the buttons displayed on the **Reservation Length** section of the **Reserve** screen. For example, if 15 minutes is selected, only the **15** button is displayed on the **Reserve** screen. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	ReserveNowMaxDur
Reserve Even End Time	Change the **Reservation Length** section of the **Reserve** screen from buttons displaying 15-minute intervals (i.e., 15, 30, 45, 60) to buttons displaying actual times in 15-minute intervals (i.e., 11:15, 11:30, 11:45, etc.) for a period of up to two hours from the current time.	ReserveNowEvenEndTime
Enable End Early	Three options are offered: **Off**, which disables the End Early feature; **Minutes**, which enables the **End Now** button on the pull-up toolbar when the number of minutes specified by the **Minutes Before End Early** control has passed; and **Percentage**, which enables the **End Now** button when the percentage specified by the **Percent Before End Early** control has passed.	EnFreeUpRoom FreeUpRoomEnUseMin FreeUpRoomEnUsePer
Minutes before End Early	Determine the number of minutes that must pass before the **End Early** button on the pull-up toolbar can be used to end the current reservation. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	FreeUpRoomEnMin

(Continued on following page)

Reservation Screen Controls (Continued)

CONTROL	FUNCTION	CUSTOM PROPERTY
Percent before End Early	Determine the percent of the total reservation time that must pass before the **End Early** button on the pull-up toolbar can be used to end the current reservation. Each touch of the **-** and **+** buttons reduces or advances time period by 1 minute.	FreeUpRoomEnPer
Extend Reservation	Toggle the ability to extend a reservation. When this control is enabled, the **Extend** button on the pull-up toolbar is enabled according to additional settings on this screen.	ExtendReservationEnable
Extend Reservation (Value)	Allow **Minutes** or **Percentage** to be selected to determine how much time must pass before a reservation can be extended. Selecting **Minutes** ties extending a reservation to the value of the **Extend Reservation (min)** control. Selecting **Percentage** ties extending a reservation to the value of the **Extend Reservation (%)** control.	ExtendReservationType
Extend Reservation (min)	Determine the number of minutes a reservation can be extended. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	ExtendReservationMin
Extend After (min)	Determine when a reservation can be extended (i.e., how many minutes) after the end of that reservation. Each touch of the **-** and **+** buttons reduces or advances time period by 5 minutes.	ExtendReservationMinAfter
Extend Reservation (%)	Determine the percentage of time that must pass on an active reservation before the reservation can be extended. Each touch of the **-** and **+** buttons reduces or advances time period by 1 percent.	ExtendReservationPer

Broadcast

The following image shows the default broadcast settings.

Broadcast Screen
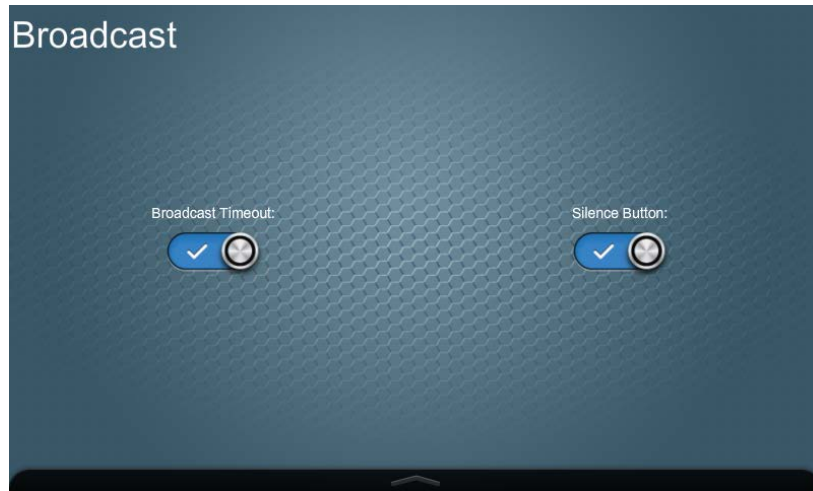
The following table explains the function of the **Broadcast** screen controls.

Broadcast Screen Controls

CONTROL	FUNCTION	CUSTOM PROPERTY
Broadcast Timeout	Toggle the use of the settable custom property value for automatic timeout of broadcast messages after receipt.	BroadcastTimeOutEnable
Silence Button	Toggle ability to touch a hard button to silence the emergency alert.	BroadcastSilenceBtnEnable

Diagnostics

The following image shows the default diagnostics settings.

Diagnostics Screen

The following table explains the function of the **Diagnostics** screen controls.

Diagnostics Screen Controls

CONTROL	FUNCTION
Update	Force the Schedule View to update from Crestron Fusion.
Restore	Return the touch screen settings to their default values.
Crestron Fusion Status	Green indicates a connection to Crestron Fusion. Red indicates no connection.
Push Registered	Green indicates the touch screen has registered with Crestron Fusion for Push service.
Push Capable	Green indicates the touch screen is enabled for Push service.
Occupancy Sensor*	Indicate the current state of the occupancy sensor.

*   If available in hardware (not all touch screen models have this feature).

NOTE: The detected touch screen model is displayed next to the scheduling software version number.

NOTE: When there is no connection to Crestron Fusion, Demo mode allows the touch screen to be demonstrated by using an XML answer file loaded to the touch screen. Demo mode may be enabled when the touch screen is in the offline state. The touch screen will remain in Demo mode even after power is cycled until it is disabled in the touch screen settings or a connection to Crestron Fusion is established. Refer to the "Demo Mode Release Notes" document for details.

Custom Properties

Custom properties expand the functionality of the touch screen. An example of this is passing properties to the touch screen to display and announce an emergency alert generated by Crestron Fusion. In this way, custom properties provide information that is important to the user and that can be included in the description of the room.

Custom properties that communicate settings to the touch screen are defined for each room and are set through the Crestron Fusion Setup web client.

NOTE: Once a custom property is set via Crestron Fusion, it cannot be changed on the touch screen. After a custom property is defined in Crestron Fusion, the touch screen will pick up a zero/false/null value the next day if the property was not set for the room. Therefore, when defining a new custom property, it must be configured for each room if the default value is not to be applied to scheduling touch screens in every room.

NOTE: When a custom property is deleted from Crestron Fusion, the last value sent to the touch screen remains until the setting is overridden (if the setting is exposed in the touch screen configuration screens) or the **Restore Default Settings** button on the "Diagnostics" screen is touched.

In addition to the custom properties already discussed in this document, additional properties are available. Refer to the tables on the following pages for information on these additional custom properties.

Adding Custom Properties

Use the following to add a custom property to a room:

1. Use a web browser to log in to Crestron Fusion to access the setup pages.

2. In the lower left part of the screen, click the **Objects** tab.

3. On the left side of the screen, click the + next to **Custom Properties** to expand the option, and then click on **Rooms**.

4. In the middle of the screen, near the top, click **Add** to open the **Add – Custom Property (Room)** window.

5. Enter the ID, name, and type for the custom property to be added. The entry in the **ID** field should match the custom property exactly as listed in this document. The entry in the **Name** field can be any descriptive name.

ID, Name, and Type

6. Click **Save & Close** to complete the addition of the new property.

Setting Custom Properties for a Touch Screen

To apply a custom property after it has been added, it must be enabled on a touch screen within a given room. Use the following procedure to enable a custom property in Crestron Fusion:

1. Use a web browser to log in to Crestron Fusion to access the setup pages.

2. On the left side of the screen, click the **Rooms** tab if it is not already selected, and then click the + next to **Root** to expand the directory tree.

3. Double-click on the desired room to open the **Edit – Room** window.

4. Click the **Custom Properties** tab to view the available custom properties.

Edit – Room (Custom Properties Tab)

5. To enable a custom property, either add a value to the appropriate text box or check the appropriate check box.

6. Click **Save & Close** to complete the application of the new property.

Room Configuration Settings

Custom Properties (Room Configuration Settings)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
DisplayLanguage[1]	String[1]	On-screen display language	en-US	
SecondaryLanguage[1]	String[1]	Add a user-selectable second language to the toolbar	<empty>	Empty string disables the feature
HomeLayout	Integer [0,1]	Main screen	0	0=Time prominent (legacy 2.0)
DateFormat[2]	Integer [0-9][2]	Date format	0	
TimeFormat[1]	Boolean True=12hr, False=24hr	Time format	TRUE	
RoomPrivacyLevel[1]	Integer 0=Public,1=Semi-Private, 2=Private, 3=Custom	Room privacy setting	0	
PanelSecurityLevel[1]	Integer 0=Disabled/Anonymous 1=Touch screen PIN	Set the touch screen's security level	0	
PanelPin[1]	String 0000-9999	The touch screen's secure PIN #	1234	
EnPushModel[1]	Boolean	Allow push communication with Crestron Fusion	TRUE	
AvailabilityThresholdRoomState[1]	Integer 0=Disabled, 1=Full	If room is available, show as reserved during threshold period before next meeting	0	
AvailabilityThresholdMin[1]	Integer [1-120] minutes	Size of threshold period	10	
RoomFriendlyName	String [1-40 chars] or <empty>	Room friendly name	<empty>	<empty>=use Fusion room name
PrivateSubjectOverrideEn	Boolean	Allow viewing subject of a private meeting	FALSE	
PrivateOrgOverrideEn	Boolean	Allow viewing organizer of a private meeting	FALSE	
EnPrivateOverrideSecurity	Boolean	Allow override of private meeting after touch screen login	FALSE	
ShowSubject	Boolean	Show subject on schedule ribbon and details screen	TRUE	Only applies when **Room Privacy** is set to **Custom**
ShowOrg	Boolean	Show organizer on schedule ribbon and details screen	TRUE	Only applies when **Room Privacy** is set to **Custom**
ShowAttendees	Boolean	Show attendees on details screen	TRUE	Only applies when **Room Privacy** is set to **Custom**
StatusEn	Boolean	Shows status on main page	TRUE	
ToolbarVisible	Boolean	Enable the toolbar buttons to be always visible	FALSE	
EnToolsMenu	Boolean	Enable press and hold settings access on the toolbar	TRUE	For touch screen configuration access
SubjectEntryEnable	Boolean	Allow manual subject entry	TRUE	Supported only on TSS-752 when left-to-right language selected

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Custom Properties (Room Configuration Settings – Continued)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
OrganizerEntryEnable	Boolean	Allow manual organizer entry	TRUE	Supported only on TSS-752 when left-to-right language selected
PollTime	Integer [1-15] minutes	Fusion polling interval	5	This setting may impair schedule provider performance
EnToolsMenu	Boolean	Allow access to touch screen settings	TRUE	

1. The following table correlates the language setting with the required string values (case sensitive).

LANGUAGE	PROPERTY
Chinese (Simplified)*	DisplayLanguage=zh_CN
Chinese (Traditional)*	DisplayLanguage=zh_TW
Danish	DisplayLanguage-da
Dutch (Netherlands)	DisplayLanguage=nl
English (US)	DisplayLanguage=en_US
English (UK)	DisplayLanguage=en_UK
French	DisplayLanguage=fr
German	DisplayLanguage=de
Hebrew*	DisplayLanguage=he
Italian	DisplayLanguage=it
Japanese*	DisplayLanguage=ja
Korean*	DisplayLanguage=ko
Norwegian	DisplayLanguage=no
Portuguese (Brazil)	DisplayLanguage=pt_BR
Portuguese (Portugal)	DisplayLanguiage=pt_PT
Russian*	DisplayLanguage=ru
Spanish	DisplayLanguage=es
Swedish	DisplayLanguage=sv

* These languages are not supported on the TPMC-4SM.

2. The following table correlates the date format with the required integer.

FORMAT	DEFINITION	EXAMPLE	PROPERTY
WMDY	Day of week, Month Day, Year	Tuesday, May 21, 2013	DateFormat=0
WDMY	Day of week, Day-Month-Year	Tuesday, 21-May-2013	DateFormat=1
WMD	Day of week, Month Day	Tuesday, May 21	DateFormat=2
WDM	Day of week, Day-Month	Tuesday, 21-May	DateFormat=3
MDY	Month Day, Year	May 21, 2013	DateFormat=4
DMY	Day-Month-Year	21-May-2013	DateFormat=5
M.DY	Month.Day Year	May.21 2013	DateFormat=6
D.MY	Day.Month Year	21.May 2013	DateFormat=7
WYMD	Day of week, Year-Month-Day (ISO format)	Tuesday,2013-May-21	DateFormat=8
YMD	Year-Month-Day (ISO format)	2013-May-21	DateFormat=9

Automation Settings

Custom Properties (Automation Settings)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
MotionSensorType[1, 2]	Integer 0=Intelligent, 1=Basic	Motion sensor type	0	
MotionSensorOutput[1, 2]	Integer 0=NO, 1 =NC	Motion sensor output signal type	0	
MotionSensorConnection[1, 2]	Integer 0=Locally wired, 1=Remote via Fusion	Motion sensor connection type	0	
ForceOrgCheckIn[1]	Boolean	Require reservation check-in	FALSE	
ForceOrgCheckInMin[1]	Integer [0-2880] minutes	Starting period before reservation from which check-in is allowed	480	
ForceOrgCheckInEndMin[1]	Integer [-120 thru +30] minutes	Expiration of check-in threshold relative to reservation start	10	Crestron Fusion version dependency – see Release Notes
EnStartMeeting[1]	Boolean	Enable **Start Now** button manual decline override	TRUE	
EnDeclineForNoShow[1]	Boolean	Enable **Decline for No Show**	FALSE	
StartMeetingBtnBeforeStart[1]	Integer [5-30] minutes	Show **Start Now** before start of reservation	10	
StartMeetingBtnAfterStart[1]	Integer [0-30] minutes	Minutes into reservation to show **Start Now**	10	
DeclineForNoShowMin	Integer [1-120] or 0	Minutes into reservation at which a decline can occur	15	0=use percent
DeclineForNoShowAppliesMin	Integer [2-480]	Minimum length of meetings in minutes that are eligible for decline.	2	Must be less than DeclineFoNo-ShowAppliesDur or DeclineForNo-ShowAppliesMin will be evaluated as DeclineForNo-ShowAppliesDur minus 1
DeclineForNoShowAppliesDur[1]	Integer [30-480]	Meetings of up to minutes length that are eligible for decline	120	Must be greater than DeclineFor-NoShowApplies-Min or Decline-ForNoShow-Applies-Min will be evaluated as DeclineForNo-ShowAppliesDur minus 1
DeclineForNoShowPer	Integer [1-100]	Percentage of reservation past which a decline can occur	10	
DeclineForNoShowEnCheckAtExactMin	Boolean	Check at the exact minute if occupied, then decline	FALSE	

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Custom Properties (Automation Settings – Continued)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
DeclineForNoShowRecurCount	Integer [0 or 3]			Setting to 0 will disable the "third strike" meeting decline (deletion) and Crestron Fusion will contrinue to send meeting warning ("second strike") notices only
MotionSensorTimeout[2]	Integer [2-60] minutes	Motion sensor timeout	15	
EnForceOrgCheckInSecurity	Boolean	Enable security for check in	FALSE	

1. Settings are available via the touch screen's configuration pages.
2. If available in hardware (not all touch screen models have this feature).

Display Settings

Custom Properties (Display Settings)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
LEDEnable[1]	Boolean	Activate LEDs on touch screen	TRUE	Touch screen model dependent
BacklightTimeout[1]	Integer [0-60] minutes		2	0=no timeout
MotionSensorLEDSTrack[2]	Boolean	Activate LEDs track motion sensor when room is in **In Use** state	TRUE	False=LEDs reflect Available state
LEDAvailableState	Integer 0=Off, 1=Green, 2=Green-Blink	Define LED color for **Available** state	1	Touch screen model dependent
LEDAvailAndOccupiedState	Integer 0=Off, 2=Green-Blink, 4=Red, 5=Red-Blink	Define LED color for **In Use** state	4	Touch screen model dependent
LEDReservedState	Integer 0=Off, 4=Red, 5=Red-Blink	Define LED color for **Reserved** state	4	Touch screen model dependent
LEDBroadcastEmgState	Integer 0=Off, 4=Red, 5=Red-Blink 6=Red-Alternating	Define LED color when emergency broadcast is active	5	Touch screen model dependent
LEDBroadcastNonEmgState	Integer 0=Off, 4=Red, 5=Red-Blink 6=Red-Alternating	Define LED color while non-emergency broadcast is active	0	Touch screen model dependent
LEDAvailThreshState	Integer 0=Off, 1=Green, 2=Green-Blink, 4=Red, 5=Red-Blink	Define LED color during availability threshold	4	Touch screen model dependent
BackgroundAvailable	String <http://url> image file	Custom 800x480 JPG or PNG image for **Available** state	<empty>	If any one of the URLs returns an error, all 4 revert to the default state. This properly is not supported on the TPMC-4SM.
BackgroundReserved	String <http://url> image file	Custom 800x480 JPG or PNG image for **Reserved** state	<empty>	This properly is not supported on the TPMC-4SM.
BackgroundOffline	String <http://url> image file	Custom 800x480 JPG or PNG image for **Offline** state	<empty>	This properly is not supported on the TPMC-4SM.
BackgroundConfig	String <http://url> image file	Custom 800x480 JPG or PNG image for settings/dialogs	<empty>	This properly is not supported on the TPMC-4SM.
ForceBacklightAvailability Threshold	Boolean	Force backlight on during availability threshold	TRUE	
ForceBacklightBeforeRes	Integer [0-10] minutes	Force backlight on before start of reservation	5	
ForceBacklightDuringRes	Integer [0-1440] minutes	Force backlight on after start of reservation	5	Setting to 1440 will ensure the screen is always turned on during meetings on touch screens that have no proximity sensor.

1. Settings are available via the touch screen's configuration pages.
2. If available in hardware (not all touch screen models have this feature).

Schedule Settings

Custom Properties (Schedule Settings)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
MenuDayViewEnInfo*	Boolean	Enable tapping on reserved list item to view details	TRUE	
MenuDayViewEnReserve*	Boolean	Enable tapping on available list item to reserve	TRUE	Requires Reservation Enable set to on
ReserveCustomEn*	Boolean	Allow user entry of reservation duration	TRUE	
FindBtnEnable*	Boolean	Enable **Find** function to reserve another available room	TRUE	
MenuShowReserveNow	Boolean	Show **Reserve Now** button on pull-up menu	TRUE	
MenuShowMeetingTimes	Boolean	Show meeting duration on schedule ribbon	TRUE	
MenuShowAvailableTime	Boolean	Show status duration	TRUE	
MenuShowMeetingInfo	Boolean	Show **Details** button on pull-up menu	TRUE	
MenuShowSearchWizard	Boolean	Show **Find** button on pull-up menu	TRUE	
ListTimeOut	Integer [5-30] seconds	Return schedule ribbon back to active meeting after inactivity	15	
AllowPrivateFreeBusyUpdate	Boolean	Enable reservation of a **Find** from another touch screen when room privacy is set to **Private** or **Semi-Private**	FALSE	
OfflineExpiry*	Integer [0-24] hours	Number of hours to display cached schedule upon loss of connection	12	A value of 0 will show offline screen immediately upon loss of connection.

*   Settings are available via the touch screen's configuration pages.

Reservation Settings

Custom Properties (Reservation Settings)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
ReservationEnable*	Boolean	Allow **Reserve Now** function	TRUE	
ReserveNowMaxDur	Integer [30-120] or 0	Maximum length of reservation made at touch screen	120	0=same day only
ReserveNowEvenEndTime*	Boolean	Force reservation to end on even minutes boundary (i.e., :00,:15,:30,:45)	FALSE	
EnFreeUpRoom*	Boolean	Allow **End Early** function	TRUE	
FreeUpRoomEnUseMin*	Boolean	Use minutes to determine **End Early**	TRUE	
FreeUpRoomEnUsePer*	Boolean	Use percentage to determine **End Early**	FALSE	
FreeUpRoomEnMin*	Integer [0-59] minutes	Minutes into reservation at which **End Early** is allowed	10	
FreeUpRoomEnPer*	Integer [0-100] percent	Percentage of reservation past which **End Early** is allowed	5	
ExtendReservationEnable*	Boolean	Allow user to extend a reservation	TRUE	
ExtendReservationType*	Integer 0=minutes, 1=percentage	**Extend** function enabled based on percentage or minutes setting	0	
ExtendReservationMin*	Integer [0-59] minutes	Number of minutes before end of reservation to enable **Extend**	15	
ExtendReservationMinAfter*	Integer [0-59] minutes	Minutes after end of meeting where **Extend** is available into a free period	15	Crestron Fusion version dependency – see release notes
ExtendReservationPer*	Integer [0-100] percent	Percentage from end of reservation to enable **Extend**	25	
ReserveNowTimeSelection	Boolean	Offer buttons for quick selection of reservation times	TRUE	
EnFreeUpRoomSecurity	Boolean	Enables security for **End Early** function	FALSE	
EnExtendReservationSecurity	Boolean	Enable security for **Extend**	FALSE	
EnReservationSecurity	Boolean	Enable security for **Reserve Now**	FALSE	
ReserveFutureLimit	Integer [0-2820] minutes	Allow ad-hoc touch screen reservation into the future by number of minutes	720	0=allow **Reserve Now** only on currently available room
DefaultSubject	String	Sets the default subject text for ad hoc reservations made at the touch screen	Default Subject	
DefaultOrganizer	String	Sets the default organizer text for ad hoc reservations made at the touch screen	Default Organizer	

*   Settings are available via the touch screen's configuration pages.

Broadcast Settings

Custom Properties (Broadcast Settings)

CUSTOM PROPERTY	TYPE AND SUPPORTED VALUE	DESCRIPTION	DEFAULT VALUE	NOTES
BroadcastTimeOutEnable*	Boolean	Allow broadcast messages to be auto-cleared	FALSE	
BroadcastSilenceBtnEnable	Boolean	Allow broadcast messages to be silenced	TRUE	
EnBroadcastMessage	Boolean	Allow broadcast message display	TRUE	
NonEmgBroadcastStyle	Integer 0=partial, 1=full-screen	Format non-emergency message on status screen or display full-screen (as emergency broadcast)	0	
BroadcastSounder	Integer 0=Off, 1=On	Enable audio feedback on emergency broadcast events	1	
BroadcastEmgTimeOut	Integer [10-90] minutes, or 0	Sets timeout interval	90	0=No timeout
BroadcastNonEmgTimeOut	Integer [10-720] minutes, or 0	Sets timeout interval	720	0=No timeout
BroadcastEmgScheduleEnable	Boolean	Allow access to room schedule during active emergency broadcast	FALSE	

*   Settings are available via the touch screen's configuration pages.