



## RELEASE NOTES

# TSW-570/TSW-770/TSW-1070/TSW-570P/TSS-770/TSS-1070/TS-770/TS-1070

Version 1.005.0005

## Product Description

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TSW-570 5" Touch Screen Wall

TSW-570P, TSW-570PR 5" Portrait Touch Screen Wall

TSW-770, TSW-770-GV, TSW-770R 7" Touch Screen Wall

TSW-1070, TSW-1070-GV, TSW-1070R 10" Touch Screen Wall

TS-770, TS-770-GV, TS-770R 7" Touch Screen Tabletop

TS-1070, TS-1070-GV, TS-1070R 10" Touch Screen Tabletop

TSS-770, TSS-770-T 7" Dedicated Scheduling Touch Screen

TSS-1070, TSS-1070-T 10" Dedicated Scheduling Touch Screen

-GV indicate Government models, which have the Wi-Fi, Mic and Bluetooth disabled.

R indicate Residential Models (Crestron Home only)

## Notes and Recommendations

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- **Important note, if you upgrade to this version and do any of the following, you will not be able to downgrade to a prior version.**
  - **Do a restore or**
  - **Change a password of an existing user or**
  - **Create a new user**
- This firmware version incorporates all features and bug fixes from the following versions
  - 1.002.0055 (fixes related to Crestron Home)
  - 1.003.0082 (Support for MS Teams Panel scheduling application)
- Except for Microsoft TEAMS Flex systems, Crestron strongly recommends upgrading the firmware to the latest released version.
- For Microsoft TEAMS Flex system, please do not update the touch screen firmware, as this is handled / managed by the UC-Engine

- This firmware release supports TSW, TS and TSS based touch screens. It is not possible to convert a TSS to TSW touch screen or vice versa.
- TSS-770 and TSS-1070 do not support the following features that some or all TSW and TS touch screens do:
  - Custom Smart Graphics projects
  - Control system connections
  - Crestron Home (Pyng)
  - .AV Framework
  - RAVA SIP Intercom
  - Sonos app
  - Zoom Rooms page flip mode
  - TSS-752 style scheduling interface
  - Crestron HTML5 User Interface
- The following are minimum Software Tools and Database version required, note Crestron recommends always using the latest versions:
  - Smart Graphics 2.15.08.15
  - VT Pro-e 6.2.01.31
  - SIMPL Windows 4.14.22.06
  - Toolbox 3.07.228.02
  - Crestron Database 202.00.001.00
  - Device Database 200.20.002.00
- When using the POE Occupancy sensor or the “Check In” button to drive No-Show functionality locally on the touch screen, for recurring meetings, if a “No-Show” event is detected for the 3<sup>rd</sup> consecutive meeting, the room will be freed from the recurrence.
- Please refer to the following link for the latest ch5 reserve join, signal name fixes.  
[https://sdkcon78221.crestron.com/sdk/Crestron\\_HTML5UI/Content/Topics/UI-Reserve-Joins.htm](https://sdkcon78221.crestron.com/sdk/Crestron_HTML5UI/Content/Topics/UI-Reserve-Joins.htm)

## Firmware Upgrades

- Ensure the touch screen is given at least 30 minutes to complete firmware upgrade before power cycling. Normally it will complete in less time than this but in certain cases additional internal steps may be performed by the touch screen which requires a longer update time.

## Firmware Downgrades

- Firmware upgrades are exhaustively tested to ensure there are no unintended operational changes to the device after the upgrade. While attempts are also made to ensure device configurations are preserved on firmware downgrade, it cannot always be guaranteed due to data storage adjustments that may occur between versions. Thus, if a Touch Screen is to be left in a production environment after a firmware downgrade, performing a RESTORE after the downgrade is strongly advised to ensure consistent operation.

## Choosing an Application Mode

- TSS touch screens ship with Crestron Scheduling enabled by default and TSW touch screens ship with User Project enabled by default.

- Sonos is not technically an application mode, it is invoked within the User Project mode.
- To choose a new application mode:
  - Browse to the web configuration interface and navigate to the Applications section of the settings tab and select the desired app from the drop-down.
  - Alternately, select apps using the “appmode” command at the text console in Toolbox.
  - A third alternative is to select the application using the Application Selection screen in Setup.
- Certain application modes disable the toolbar buttons on the touch screen if they are unused in that particular application.
- LCD brightness is controlled automatically when in Crestron Default (Crestron scheduling) mode.

## App Updates - Sonos

- The touch screen will only check for Sonos app updates after Sonos has been launched on that particular touch screen at least once. The touch screen will automatically check for Sonos updates at 02:00/2:00am local time and install the new version if found.
- Once Sonos is used at least once the current version can be checked in the Setup->About screen, and you can also check for new updates from there.
  - A manual check for update can also be done via the Crestron Toolbox console command by issuing the following command: *appupdate sonos* This command will enable the nightly check, even if a Sonos project has never been launched.
- If the touch screen has a newer Sonos App version than what is included in the firmware that is installed, the Sonos App will be downgraded temporarily. The Sonos App can be upgraded to the latest released version.
- The update button inside the Sonos app itself will not update the Sonos app on the TSW, the above method must instead be relied upon.

## App Updates – Non-Sonos

Supported app partners will release app updates from time to time, which the TSS/TSW/TS touch screen will automatically retrieve when available. A full firmware update is not required to update the partner apps. App updates are automatically applied at 02:00 local time when an update is available.

- For manual check/install, use one of the two methods below:
  - Browse to the web configuration, select App Upgrade from the Actions menu.
  - Enter the touch screen Setup->About screen to do an immediate check and install new updates of the current running app.
- If the TSS-XX touch screen has a newer App version than what is included in the firmware that is installed, the installed App will be left installed.

## Darwin App from Delos

The 70 series touch screens have the ability to launch the Darwin application using the same reserved join for Sonos (Open Sonos, 28511). To activate this capability, you must set the following console parameter

- APPDUALMODE [SONOS|DELOS] Select sonos or delos.

The setting is defaulted to Sonos, once it is set to Delos reboot the Touch Screen. The same join to launch Sonos in custom projects will launch the Delos Darwin app instead.

Currently only the automatic connect mode is fully functional, Delos is aware of the issue and is working on a fix in their app.

The touch screen will only check for Darwin app updates after Darwin App has been launched on that particular touch screen at least once. The touch screen will automatically check for Darwin updates at

02:00/2:00am local time and install the new version if found. For manual check/install, use one of the two methods below:

- Enter the touch screen Setup->About screen to do an immediate check and install new updates of the current running app. Note in the setup menu, the app is still hardcoded as "Sonos" but the version number will be correct. This will be corrected in a future release.

## Scheduling Applications and Calendars– Supported Features

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Scheduling Application	POE Occupancy Sensor Support	Initial Firmware Version	Reports Network Outage	Language Support	Supported Touch Screens
Crestron	Yes	1.2.31	Yes	Yes, 24 languages	TSW-570 TSW-570P TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Robin	No	1.2.31	No**	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Teem	No	1.2.31	Yes**	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Appspace	No	1.2.31	Partial**	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
EMS	No	1.2.31	Yes	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070

Zoom	No	1.2.31	No	English Only	TSW-770 TSW-1070 TS-770 TSS-770 TSS-1070
Gingco	No	1.2.31	No	German, English, Spanish	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
NFS Rendezvous	No	1.2.31	No	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Space Connect	No	1.2.31	Yes	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
SpacelQ	No	1.2.31	No	English Only	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
New Wave	No	1.2.31	No	English, Spanish Portuguese, Italian French, German Japanese Chinese / Cantonese Norwegian, Danish	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
AskCody	No	1.2.31	Yes	English, Spanish German, French Danish, Swedish Norwegian, Finnish	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Indoor Finders	No	1.2.31	Yes	Arabic, Bulgarian, Catalan, Czech, Chinese, Croatian, Danish, Dutch, English,	TSW-770 TSW-1070 TS-770

				English (UK), Farsi, German, Greek, Spanish, Finnish, French, Hebrew, Hindi, Croatian, Hungarian, Italian, Japanese, Korean, Lithuanian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (European), Romanian, Russian, Russian (UA), Slovak, Serbian, Thai, Swedish, Turkish, Ukrainian, Vietnamese	TS-1070 TSS-770 TSS-1070
SharingCloud	No	1.2.31	Yes	English, French, German	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Matrix Booking	No	1.2.31	Yes	English	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
22 Miles	No	1.2.31	Yes	Multi-Language support, please refer to 22 Miles	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
iOffice Hummingbird	No	1.4.46	Yes	Please refer to iOffice	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
Khardam Digital Building	No	1.4.46	Yes	Please refer to Khardam Digital	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070

OfficeSpace	No	1.5.2	No	English	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070
PepperDash Connect	Yes	1.5.2	Yes	English	TSW-770 TSW-1070 TS-770 TS-1070 TSS-770 TSS-1070

Calendar for Crestron Scheduling Application	Initial Firmware Version	Ad-Hoc Meeting Support	Supported Touch Screens
Exchange	1.2.31	Yes	TSW-570
Fusion	1.2.31	Yes	TSW-570P
Google	1.2.31	Yes	TSW-770
Ad Astra	1.2.31	No	TSW-1070
CollegeNET 25Live	1.2.31	No	TS-770 TS-1070 TSS-770 TSS-1070

Note: All partner scheduling applications support the LED accessories.

\*\*ROBIN app displays network disruption, but only checks physical network connectivity -- if the device is connected to a Wi-Fi hotspot or has a network cable plugged in.

\*\*TEEM: There is a network indicator (that looks like Wi-Fi) in the top right corner. Interacting with any of the buttons when the app is offline produces an error message.

\*\*Appspace - There is no indication in the app that the device is offline. However, the Room Card will turn gray for the status if the device is offline or cannot reach the cloud service. If the device loses connectivity to the Appspace server, portal itself you will see the 'Lost Connection' status after 15min. Once the device reports back to the server it will switch back to Online.

\*\*\* For best results and lightbar integration, minimum EMS version is v44.1 Update 28

## Crestron Scheduling

- Hard keys/hard key backlighting are automatically disabled in Crestron Scheduling mode. Even if manually turned on, the next time the scheduling interface starts they will turn back off.
- "Theme/Style Override URL" field is intended for .css files that override default styling rules. It should not be used for image files.

## Indoor Finders

- When user tries to create a meeting longer than the room is allowed the error message only displays "Maximum event time permitted on this room is" without displaying the max time it is allowed.

- Some formatting issues were observed with the Check-in and the Extend Meeting messages displayed by the application.
- Some screen flickering was observed based on the background of the application.

## Sharing Cloud

- Currently LED is not functional, will be corrected in the next release.

## SpacelQ

- It was observed that the SpacelQ application crashes after an update of firmware. The display will show a white screen with a small blue swirl. This is an issue with the SpacelQ application and they are currently working on resolving the problem. If you are running SpacelQ, it is recommend not to update the firmware until the problem is resolved. If the panel is in this state the issue can be cleared by selecting a different application mode and selecting SpacelQ again.

## NewWave

- Current Room status does not display on Scheduling page for the first time after entering the credentials, the user will not see the current room status when the scheduling page is loaded initially. The user will need to navigate to the next day and then back to today on scheduling page and panel will refresh and displays the correct meetings.

## Gingco

- Reserve Now – Gingco can only reserve meetings in 15-minute increments and never in the past. If a user wants to do a reserve now at 2:07 for example, the first reserve now block available will be 2:15 to 2:30.
- The Gingco app does not indicate when the panel is offline or unable to communicate with the server. Users that attempt to create a meeting from the panel will receive a failure message with no indication that the operation failed due to a network communications issue.

## NFS Rendezvous

- The NFS Rendezvous app does not indicate when the panel is offline or unable to communicate with the server.
- In some cases, the user may get into an authentication page that cannot be dismissed. A device reboot is required.
- There is a display issue on 7" touchscreens when the room is in a meeting. The organizer of the meeting is clipped and illegible.

## Space Connect

- The Space Connect app does not indicate a network outage and will appear to be online and functional when it is not able to communicate with the Space Connect portal.
- Network outage behavior – Rooms that show unavailable will change to available during a network outage.
- For ad-hoc meetings the End Meeting button is not always active.



## Teem

- It is recommended to disable the device Standby and Screensaver when using Teem. Teem provides a screensaver from their portal as part of the Teem app.
- Teem rooms require a Teem license assigned in the portal. With no license assigned, the TSS touch screen appears to be functional but does not report current info and the user cannot create meetings.
  - Recovery: Ensure that a license has been assigned to the room in the Teem portal.

## Appspace

- Only the Meeting Room card used for scheduling is supported on this release. Streaming video and images may be supported in a future release.
- This firmware image has 1.44.1 in the package, which does not control LED.
  - The 1.47.0 update is immediately available from the update site, which does control the LED. Users, after first switching to the Appspace app, will need to perform an update to get LED control.
    - Note - Devices already in Appspace mode running the 1.47.0 version do not require an additional app update after the firmware is installed.
- App updates are initiated from the Actions menu on the web configuration page, or from the About screen in Setup.

## EMS

- Users selecting the EMS application must provide the unique URL to their EMS deployment.
- When the EMS application loads, there is a profile dropdown and a room dropdown. Choosing a profile populates the room dropdown to select a room. The options are stored in a cookie, so anytime the cookie is cleared the user will have to go through the selection process again.
- The EMS web application will produce an error message if there is a network outage. Restart the panel after an outage to resume normal operation.
- Sometimes, after the TSS screensaver is dismissed, the EMS room needs reconnection
  - Workaround: Leave the device Standby and Screensaver disabled.
- When creating reservations from the TSS touch screen, the user cannot select half hour segments from the time ribbon using the EMS app.
- Users cannot start an ad-hoc meeting unless it is on a :15 minute time slot.
- It was observed that after a high number of firmware upgrades, EMS would sometimes lose it's configuration.

## PepperDash Connect

- Supports POE Occupancy Sensor for the following functionalities, refer to Pepperdash directly for further details.
  - Displays occupancy status in the upper left
  - Occupancy based check-in support
  - Occupancy no show decline support
  - Occupancy automatic end early (curtail) support

## Google Calendar

- Google currently has a token refresh limit of 50, if the limit is reached, it will invalidate the oldest refresh token. Therefore, if a deployment has 50 panels under one account, and if an admin re-registers one of the panels with Google, the panel with the oldest refresh token from the remaining 49 will go offline. It is recommended only 15 or 20 calendars/touch panels are used for one user account. This limit does not apply to service accounts.

## System Requirements and Dependencies

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Other software versions:

- Smart Graphics 2.15.08.15
- VT Pro-e 6.2.01.31
- SIMPL Windows 4.14.22.06
- Toolbox 3.07.228.02
- Crestron Database 202.00.001.00
- Device Database 200.20.002.00

## Operational Installation/Upgrade Instructions

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Firmware upgrades can be performed using any of the following methods:

- Web Configuration UI
- XiO Cloud
- Autoupdate, which can be enabled/disabled from the Web Configuration UI and occurs at 02:00 local time whenever a new firmware update is available from Crestron.
  - Autoupdate is enabled by default
- Crestron Toolbox PUF tool
- FTP transfer/PUF command

## How to use the “proxyallow” Command

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Firmware version 1.004.0036 added the “proxyallow” command which enables the proxy server to do DNS resolution for external sites

In most cases the only host that is needed in proxyallow, is the host mentioned in the configuration URL for the service.

For example, for the auto update service,

The default AUMANIFESTURL for X70 is:

[https://crestrondevicefiles.blob.core.windows.net/70-series/production/firmware/manifest\\_x70\\_firmware.json](https://crestrondevicefiles.blob.core.windows.net/70-series/production/firmware/manifest_x70_firmware.json)

To have auto update go through the proxy server when crestrondevicefiles.blob.core.windows.net is not resolved by the devices DNS, use the following command:

proxyallow -a crestrondevicefiles.blob.core.windows.net

Example use for X60/X70 Scheduling services:

- Exchange/O365
  - proxyallow -a login.microsoftonline.com;outlook.office365.com

- Fusion
  - Use the server named in the clouduurl (labeled Fusion Cloud URL on the Web-UI). Additional servers may need to be added if there are multiple Fusion servers.
- Ad Astra
  - Use the server name mentioned in the Server URL:
    - If server was: `https://test.aaiscloud.com/AS8DEMODEV_CRESTRON/` use
    - `proxyallow -a test.aaiscloud.com`
- 25Live
  - Use the server name mentioned in the Server URL:
    - If server was: `https://webservices.collegenet.com/r25ws/wrd/partners/run/` use
    - `proxyallow -a webservices.collegenet.com`
- Appspace
  - `proxyallow -a *.appspace.com;*.appspaceusercontent.com;*.appspacestatic.com`
  - `addhosts discovery.cloud.appspace.com=34.102.167.151`
  - Please note, not all application accept wildcards
- XIO production servers
  - `proxyallow -a prd-use-iothub.azure-devices.net;prd-usw-iothub.azure-devices.net;portal.crestron.io;dashboard.crestron.io;files.crestron.io;sfc.crestron.io;fc.crestron.io;manifest.crestron.io;api.my.crestron.com;prmediastorage.blob.core.windows.net;prouseremoteaccesssa.blob.core.windows.net`

## Version History

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Version	Date
1.005.0005	9/08/2021

**Important note, if you upgrade to this version and do any of the following, you will not be able to downgrade to a prior version.**

- **Do a restore**
- **Change a password of an existing user**
- **Create a new user**

## New Features

- General
  - Added FIPS (Federal Information Processing Standards) mode. A restore must be done to enable FIPS.
  - Added new application “Crestron General Web”, this new application mode allows the touch screen to display any web hosted application. When selecting this application, the user will need to enter the valid URL of the webserver.
  - Added the ability to configure 2 additional NTP servers for backup.
- New scheduling providers:
  - PepperDash Connect

- OfficeSpace

## Bug Fixes

### Crestron Scheduling

- Corrected issue during initial registration, where it may take up to 5 minutes for the touch screen to connect with the Calendar.

## Known Behaviors and Issues

### Known Issues

- When configuring Wi-Fi in the local setup menu, the “Select a WAP” field may not get populated with access points if you turned on Wi-Fi and applied changes and did NOT reboot. A reboot of the touchscreen will correct this problem.
- On rare occasion that LED will not light during after a reboot, another reboot will correct the problem.

Version	Date
1.004.0115	8/12/2021

## New Features

- Added the latest version of Microsoft Teams Panel scheduling application with the following new features:
  - Tailor Teams panels experience with Teams Extensibility/Line of Business (LOB) app support
  - Room Check-in notification
  - Zero-Touch provisioning for IT Admins: Remote provisioning and remote sign in
  - Privacy: Hide meeting names for sensitive spaces

Version	Date
1.004.0046	6/16/2021

## **This firmware version incorporates all features and bug fixes from the following versions**

- **1.002.0055 (fixes related to Crestron Home)**
- **1.003.0082 (Support for MS Teams Panel scheduling application)**

## New Features

- General:
  - Added NTLM Proxy support.
  - Enabled SIP to run on custom projects for ZOOM page flip mode.
  - Added “proxyallow” command which enables the proxy server to do DNS resolution for external sites. (Refer to section “how to use the proxyallow command”)
  - Added “sonos” command which allows for the disabling of the launching of the Sonos app.
  - Added ability to configure up to 3 NTP servers.

- Added ability to have CIP connections go through the proxy server. Now when you enable proxy, the CIP connections will also route to your proxy server. Connections to local control systems will not go through the proxy if “excludelocal” is ON, excludelocal by default is ON. The excludelocal parameter is set by using the “proxy” console command. If you are not sure whether this is on or off, go to the console and type in “proxy”.
- Note all 3<sup>rd</sup> party scheduling applications except for Microsoft Teams Panel, are now downloaded from Crestron’s production manifest. Therefore, the touch screen will need to access the url. The production manifest url is shown below:
  - [https://crestrondevicefiles.blob.core.windows.net/70-series/production/applications/manifest\\_x70\\_apps.json](https://crestrondevicefiles.blob.core.windows.net/70-series/production/applications/manifest_x70_apps.json)
- Crestron Scheduling:
  - Added parameter to disable the idle screen in “UI Settings”.
  - Added parameter for min reservation length for walk up meetings in “Reservation”.
  - When using Fusion as the calendar source, enabled the Check-in feature to sync across multiple panels assigned to a single room.
  - Added parameter “Enabled Reversed Color for Check-in” in “UI Settings”, when enabled the led color and display status will go to Occupied when someone checks in before the meeting start time.
  - Changed the Active Screen to directly show the Ckeck-in, End Early and Extend Meeting buttons, when they are enabled.
  - Added support for push notification from Exchange for updates to the Calendar, please see article for push notification limits.
    - <https://docs.microsoft.com/en-us/exchange/client-developer/exchange-web-services/ews-throttling-in-exchange#throttling-considerations-for-ews-notification-applications>
- New scheduling providers:
  - iOffice Hummingbird
  - Khardam Digital Building
  - Microsoft Teams Panel (incorporates everything that was released in version 1.003.0082)
    - Per Microsoft’s requirements, to sign into the scheduling application, the user will need to have a M365 meeting room standard license or equivalent (like M365 E5) associated with the room resource account.

## Bug Fixes

### General

- Increased project memory size to 700 MB, for optimal performance of Smart Graphics Projects.
- Addressed multiple issues related POE power negotiation, which caused the lightbars and C-Signs not to work.
- Resolved issue with Web UI going completely white after changing certain settings.
- Resolved issue where the SRLs and serial text were not getting populated on project.
- Resolved issue with MJPEG video being sluggish and choppy.
- Resolved issue with MJPEG video not working when configured with an HTTP url.

## Crestron Scheduling

- Addressed multiple time zone issues when using Google calendar.
- Resolved issue where the panel was losing registration with o365 using modern authentication.
- Resolved issue where the touch screen does not come out of standby for work hours if there is not meeting scheduled for that day's work hours.

## Crestron HTML5 User Interface

- Resolved issue where multiple RCB ramped analog joins from control system would not be propagated to CH5.
- Resolved issue where Repeat Digitals were not properly sent when in Contract Smart Objects.
- Resolved issue where Digital Reserve Joins were not working with the CH5 Button.
- Upgraded Webview to version 87.

## Crestron Home

- All bug fixes in firmware version 1.002.0055
  - Touch panels failing to display the video streams from security cameras.
  - Touch panels failing to display the video when receiving a call from the 2N door station.
  - The Crestron Home app on the touch panel might be stuck on white screen with no home controls.

## Known Behaviors and Issues

### Known Issues

- Crestron Scheduling
  - During initial registration with the Calendar, it may take up to 5 minutes for the touch screen to connect with the Calendar,
  - A user can book a walk-up meeting with duration less than the min reservation length time when "Reserve Now Even End Time" is enabled.
- Smart Graphics Projects
  - Sometimes a slight delay was noticed when transitioning between pages.
  - On some instance a delay was seen in loading the Button text and Send Serial text.
- 3<sup>rd</sup> Party Scheduling
  - Space Connect - Lightbar not functional – the 3<sup>rd</sup> party partner is actively working to address this on the APK.
- Initial pairing with the Crestron One application must be done within 5 feet of the Touch Screen.

Version	Date
1.002.0040	11/23/2020

### Bug Fixes

### General

- Resolved issue with intermittent subnet connectivity loss. This would only happen if there is a power cycle or power outage and the touch screen powers back up but the network connectivity is still not

available for a period of time. Communication external to the subnet would still be functional. A reboot or recycling the power when the network is back up would recover the subnet connection.

- Resolved intermittent issue, during multiple power reboots, if the DHCP server is slow to respond to the touch screen request, the panel would assign itself a local link IP Address (169.254.xx.xx), another reboot of the panel would resolve the problem.
- Resolved issue where on rare occasions, multiple reboots caused the touch screen to lose its IP address. This would only occur for Wi-Fi connections and the issue could be recovered by another power cycle or a reboot of the touch screen.

## Known Issues

- For POE Occupancy sensor pairing, only IP Address and Hostname are currently supported and not FQDN. (added 3/4/2021)

Version	Date
1.002.0031	11/06/2020

This version provides feature parity with the 60 Series Touch Screens, including support for:

- Crestron One mobile room control
- Modern Authentication for the Crestron Scheduling app
- POE Occupancy Sensor integration
- Matrix Booking and 22 Miles Scheduling apps

Note that this version of firmware will be posted on the Autoupdate server by 11/9/2020.

## Bug Fixes

### General

- Resolved multiple issues with intermittent network connectivity losses for both Ethernet and Wi-Fi.
- Improved performance for deploying configurations in XiO Cloud and the Web UI.
- Decreased boot up time to approximately 2.5 minutes.
- Resolved issue where on rare occasions the panel may reboot without any manual initiation or power loss.
- Resolved issue where the proximity sensor stops functioning intermittently, requiring a reboot of the touch screen to clear.
- Resolved issue where the auto brightness stops functioning intermittently.

## Known Behaviors and Issues

### Behaviors due to New Features

- The 70 series touch screens use the soft toolbar buttons and the light to show the thin edge of the toolbar when the toolbar is hidden will be enabled by default. Because of this the display will not be completely dark in a dark room when in standby mode and the screen saver is disabled. The edge light can be disabled via a console command:  
VKMINBRIGHTNESS [ENABLE|DISABLE]

- ENABLE - In standby mode, LCD turns on as minimum brightness to recognize Virtual toolbar
- DISABLE - In standby mode, LCD perfectly turns off

This parameter is disabled when the touch screen is running Crestron Home.

- The 70 series touch screens by default uses a new auto-brightness algorithm which has two modes of operation, a day and night mode. Having these two modes provide a more granular level of light for the display. The original Crestron algorithm used in the 60 series is still available and can be activated by the console command:

AUTOBRIGHTNESS [CRESTRON|FRAMEWORK]

- Crestron – to enable original algorithm
- Framework – to enable new algorithm

Note the high and low preset values only apply when using the original Crestron algorithm.

The “Threshold” parameter works differently for the 2 algorithms.

- For “Framework” the threshold value acts as a scaling factor for the level of brightness.
  - If adjusted above 50% the brightness level produced by the algorithm will be increased.
  - If adjusted below 50% the brightness level produced by the algorithm will be decreased.
- For “Crestron” the threshold value acts as the ALS transition point between low and high preset values.
- For 80 MHz wireless channels, only UNII1 and UNII3 bands are supported. Please make sure in your wireless access point configuration that these are the only bands that are selected for 80 MHz channels.

## Known Issues

- Enabling 802.1x from the Web UI will require a reboot of the touch screen.
- On rare occasions depending on the angle of the light, the Sunlight may cause false proximity detection.
- When in the Control System accordion of the Web UI, if the processor has authentication enabled, you will now need to go to the Security tab to enter the control system credentials.
- NTLM Proxy support will be available in the next release.
- Video stream from 2N door stations may appear slightly choppy for objects in motion.
- Intermittent subnet connectivity loss. This will only happen if there is a power cycle or power outage and the touch screen powers back up but the network connectivity is still not available for a period of time. Communication external to the subnet will still be functional. A reboot or recycling the power when the network is back up will recover the subnet connection.
- Intermittent issue, during multiple power reboots, if the DHCP server is slow to respond to the touch screen request, the panel will assign itself a local link IP Address (169.254.xx.xx), another reboot of the panel will resolve the problem.
- On rare occasions, multiple reboots may cause the touch screen to lose its IP address. This only occurs for Wi-Fi connections and the issue can be recovered by another power cycle or a reboot of the touch screen.
- When running the Crestron Scheduling app, touch screens that are connected to Fusion will change the Background Media type from Video to Image after reboot or making changes to other Room custom properties.



