



R E L E A S E N O T E S

Crestron Home

3.004.0071

Crestron Home

This firmware is for the Crestron Home™ MC4-R.

Notes and Recommendations

Sonos – Best Practices

To ensure a successful integration with Sonos, follow these tips:

- Set up your Sonos device and assign it a room name in the Sonos app first.
- A Sonos device can use a wired or wireless connection. However, after installation this setting cannot be changed. Changing the setting at runtime can cause problems for controlling the Sonos unit.
 - If the wireless network is setup for the Sonos system, connecting or disconnecting the LAN cable will make the Sonos unit switch between the wired and wireless network.
- Do not create a room name longer than 12 characters for the Sonos device in the Sonos App. This room name will be used for the device name in Pyng which has a limit of 12 characters.
- The line-out level for a Sonos Connect needs to be configured as fixed. Volume control is handled by the Crestron amp.
 - The Sonos app will display “Fixed Volume” instead of the volume bar with volume controls for all Connects used in Pyng.
- Multiple Sonos systems cannot be placed on the same network. Each Sonos system has a system ID and Pyng will only discover Sonos units that are part of the last discovered Sonos system (Last system ID wins)
 - This can lead to behavior where Pyng sometimes discovers units from the first Sonos system or it discovers only the second system (depends on the last received system ID) but never both.

System Requirements and Dependencies

When integrating with other 3-Series processors and separate touch screens, use Smart Graphics v2.13.05, or later.

To learn IR drivers, use Crestron Toolbox 3.03.332.00, or later.

Operational Installation/Upgrade Instructions

Press “Check for Updates” in the Installer Settings, then follow the instructions.

Alternatively, you can update manually using the Package Update Tool in Toolbox.

Important Note: After upgrading your MC4-R to 3.4, do not downgrade the MC4-R to any older version of firmware. See the Crestron Home manual for details.

Known Issues

- PC and Mac Crestron Home Setup App known issue: The Web port cannot be remapped to anything other than the default. This will be corrected in a near-term update of those packages.
- Lutron Keypad Emulation known issue: This feature is not available for QSX when using Palladium, or Phantom, keypads until a future Lutron Designer software update. Crestron Home will not need to be updated.
- When upgrading from a CP3-R, remove all 3rd party drivers before performing the upgrade or the upgrade will fail. To avoid this issue, you may also do the CP3-R to CP4-R or MC4-R upgrade using any previous version, then upgrade to the 3.002 version after that transition is complete. This will be addressed in the 3.3 release of Crestron Home.

Version History

3.004.0071 02-16-2021

mc4-r_3.004.0071.puf

Changes since Last Version

Critical Fixes

- Increased resilience to protect against potential system lockups
- Adds protection against a case where some EX devices become unacquired from the MC4-R built-in gateway
- Corrects scenario where after upgrades, in some cases, the Crestron Home touchscreens and apps would not connect until the User Interface account was updated

New Features

- Adds support for built-in TV tuners
- Adds support for digital inputs to be used as buttons
- Adds support for random delays between steps in Sequences
- Adds support so that Quick Actions can be recalled via the scheduler
- Adds support for “Media Zone Sleep” event on the Media Zone
 - Use this to trigger custom actions such as turning of the lights when the sleep timer has expired.

- Adds support to Crestron Home Extensions and Sequences so that events can be fired from an Extension and reacted to by a Sequence.
- Adds support for showing Crestron swirls next to all drivers that were tested by Crestron
- Improves the speed of downloading and installing firmware
 - The older Smart Graphics UIs have now been removed from the Crestron Home processor firmware
- Adds support for CHV-TSTAT-FCU
- Adds support for choosing custom curve types for the following lighting devices: CLX-1DIMU4, CLX-1DIMU4-HP, CLX-2DIMU8, CLX-2DIMU8-277, CLXI-2DIMU8, CLW-DIMUEX-P, CLW-DIMFLVEX-P, HZ-DIMEX, HZ-DIMFLEX, HZ-DIMUEX, and DIN-2LEDPWM8

Bug Fixes and Behavior Changes

- (see Critical Fixes section above)
- Corrects Media Scene feedback when tied to a keypad button
- Corrects issue with the C2N-CBD keypad where the 'auto-brightness' property was not correctly set
- Corrects exception that could occur when importing Lutron buttons that contain conditionals
- Resolves a case where CLX-2DIMU8 feedback could get out of sync with the processor
- Corrects issue with the REST API where the devices list was not being returned
- Corrects an issue with OS2 to OS3 upgrade where a PYNG-CONNECT-COM could be removed from the configuration
- Improved BACnet communication robustness

3.003.0035 11-05-2020

mc4-r_3.003.0035.puf

Changes since Last Version

New Features

- Adds support for Crestron Home Extensions hooking into Sequences
- Adds support for AV Switcher drivers that can be pulled from the cloud, or side-loaded
- Adds support for 4KZ Switchers:
 - HD-MD4X1-4KZ-E
 - HD-MD4X2-4KZ-E
 - HD-MD4X4-4KZ-E
 - HD-MD8X4-4KZ-E
 - HD-MD8X8-4KZ-E
- Adds support for 4K Switchers:
 - HD-MD4X1-4K-E
 - HD-MD4X2-4K-E
 - HD-MD6X2-4K-E
- Adds support for Crestron Home Setup applications for the PC and Mac
- Adds support for Lutron individual lighting load and shade motor control (RadioRA2, QS, and QSX)

Bug Fixes and Behavior Changes

- Corrects exception that could occur when importing Lutron buttons that contain conditionals
- Corrects issue where in some cases processor went back to “Welcome to Crestron Home” screen
- Corrects Texecom Security driver where functions were off by 1
- Corrects issue where lighting feedback could be out of sync with the DIN-2LEDPWM8
- Corrects button model issue where a double-tap on a lighting load was not executing a cut
- Corrects issue with multi-tap global timeout settings going back to 0 after a reboot
- Protects against an issue where international drivers with international characters were causing 3rd party drivers to fail to load
- Corrects a case where volume control reports inconsistently depending on the media path through the system
- Corrects issue where Interlogix Networx NX-8E connected with Networx NX-587E RS-232 interface was triggering Away when armed to Stay
- Corrects issue where shades and Quick Action were not controlling multiple relays
- Corrects issue where in some cases a display could turn on when connecting AVR output to display input

3.002.0036 10-09-2020

mc4-r_3.002.0036.puf

Changes since Last Version

Bug Fixes and Behavior Changes

- Compensates for Sonos 12.1 change where the favorites list structure has changed. To the user, they will see a blank browse list if they have more than 13 favorites when using Sonos 12.1 and Crestron Home prior to 3.002.000036.

3.002.0031 09-30-2020

mc4-r_3.002.0031.puf

Changes since Last Version

New Features

- Adds support for Crestron Home Extensions
 - Allows drivers to be created that also include a custom UI
 - Details for developers available here: developer.crestron.com
- Adds support for security systems drivers that can be pulled from the cloud, or side-loaded. Depending on the specific security system model, features include:
 - Improved end-user experience with redesigned security pages
 - Audible touchscreen chimes, and flipping to the security page automatically

- Using the security features on your mobile device, allows PIN code entry to be done by the Crestron Home system on the user's behalf
- Adds support for new NVX products:
 - DM-NVX-360
 - DM-NVX-363
 - DM-NVX-360C
 - DM-NVX-363C
- Adds support for Crestron Connected Keypads. See the "Work with Crestron Home" document for a list of models.
 - Basalte
 - Vitrea
 - Eutech
 - Black Nova

Bug Fixes and Behavior Changes

- Adds additional protection against a potential lockup that could occur that would block Crestron Home Apps, or TSWs, from connecting
- Corrects issue where in some cases audio routing does not complete when selecting a video source
- Corrects issue with no Feedback from Honeywell Vista 128 FBPT using the 4232CBM RS-232 interface
- Corrects issue with MyCrestron DNS password change accepting mismatching passwords
- Protects against an MC4-R showing no configuration and flips back to the "Welcome to Crestron Home" page
- Improved robustness when multiple TSR-310s are connecting and disconnecting quickly
- Corrects a case where users were unable to edit thermostat off on a BACnet object
- Corrects issue where Lutron QSX momentary button press is not sending the feedback LED state

Version History

3.001.0056 09-09-2020

mc4-r_3.001.0056.puf

Changes since Last Version

New Features

- Adds support for multiple displays per room
- Adds additional features to Sequences:
 - Call Quick Actions from a Sequence
 - Trigger relay devices from a Sequence
 - Enable/Disable Scheduled events from a Sequence
 - Send a command to change Horizon backlight color from a Sequence
 - Route sources to individual display in a room from a Sequence
- Adds support for Lutron button emulation

- Press any button on a Lutron keypad, not just a lighting or shade scene
 - Known issue: This feature is not available for QSX when using Palladium, or Phantom, keypads until a future Lutron Designer software update. Crestron Home will not need to be updated.
- Press/Hold/Double-Tap/Release Lutron keypad button
- The led feedback shown on the Lutron buttons will be reflected on the Crestron buttons
- TSWs - Added support for Dark Mode

Bug Fixes and Behavior Changes

- Adds additional protection against a potential lockup that could occur that would block Crestron Home Apps, or TSWs, from connecting
- Corrects issue where a Select button press on HR remotes could send a command twice
- Changed the default fade time to 1 second for custom lighting scenes
- Corrects issue where MyCrestron DNS registration fails when using certain characters in the password
- Disabled the ability to add a Smart Graphics TSR-310 using the Pair Devices page
- Corrects issue where some aspect ratio commands do not work for Display Settings
- Crestron Home Advanced User password can no longer be changed without entering admin password
- Improved the Diagnostics logs to include additional information about the commands sent to the devices and about button presses

3.000.0548 07-20-2020

Mc4-r_3.000.0548.puf

Changes since Last Version

New Features

- Adds support for Sequences
 - To use Sequences, create Quick Action, then under “Mode” choose, “Sequence”
- Adds support for Display Commands
 - To configure go to the TV or Projector and tap the gear icon, then see the “Accessories” and “Commands” tabs
- Adds support for CNAMPX-16x60
- Adds support for CNAMPX-12x60
- Adds support for Multi-zone AVR dynamic drivers

Bug Fixes and Behavior Changes

- Makes swapping out drivers much easier. Drivers can now be removed when a new driver version is available, without a reboot required.
- Adds protection against a potential lockup that could occur that would block user interfaces from connecting

- Corrects issue where on a reboot serial data could loop through from RX to TX while initializing the built-in COM ports on the CP4-R/MC4-R
- Corrects issue where Cresnet device list was restricted to 200 items
- Corrects issue where 2nd button labels on C2NI keypads could not be set
- Corrects issue with DIN-2MC2 intermittent shade direction control issues
- Corrects issue related to HZ-DIMUEX feedback, only when set to switched mode
- Increased the list of digital inputs from 100 to 250
- Corrects issue with the system-wide setting that would cause the double-tap time to not correctly be saved
- Changed Pool “On” indicator behavior to display when any of the pool parts are on
- Corrects handheld remote mapping for devices like TiVo so that the EXIT button will first attempt to connect to the back command to go back a level in the menu
- Adds a message on adding DM or Sonnex devices indicating that all devices should first be connected to those devices before adding it to the system

3.000.0428 06-02-2020

mc4-r_3.000.0428.puf

Changes since Last Version

New Features

- Adds support for multi-press button model

Bug Fixes and Behavior Changes

- Changed behavior so that if a DALI fixture reports offline, Crestron Home will still attempt to control it
- Adds protection against a potential memory leak related to touch screens running Smart Graphics, or TSR-310 on v1 versions of firmware

3.000.0419 05-18-2020

mc4-r_3.000.0419.puf

Changes since Last Version

Known Issues

- With version 3.000.0419, the MC4-R to MC4-R internal EX gateway device transfer, and Pyng-Hub to MC4-R internal EX gateway transfer does not function. If you need to use this feature, instead first do the EX device transfer on any previous MC4-R version. When complete, then you can update to 3.000.0419.

New Features

- Adds Lutron QS processor for HomeWorks
- Adds Lutron QSX processor for HomeWorks and RadioRA2
- Includes support for audio interrupts and playing sound files from touchscreens
- Adds the ability to hide individual services
- Adds support for DIN-DALI-2. Start by commissioning via the Toolbox DALI Commissioning Tool. Then discover via Crestron Home.
- Adds support for CNX-PAD8A and CNX-BIPAD8
- Adds support for CLW-DIMUEX
- Removes the 25 limit on Media Scenes. Increases the limit to 200.
- Adds bussing to C2N-AMP-6X100 and C2N-AMP-4X100
- Includes pan, tilt, and zoom support for streaming cameras
- Includes additional button models: press-and-hold, and ceiling fan button models

Bug Fixes and Behavior Changes

- Includes new driver framework to increase reliability and speed of IP drivers. You must re-add the drivers to take advantage of this change.
- Removes the ability to add TSW-x60s via the Crestron Home Setup app since that only displays the OS 2 style UI. Instead, add TSW-x60s to the system from the x60s themselves.
- Corrects issue from March release where digital input changes on DIN-IO8, C2N-CBD, CLWI-KPLCN, and HZ-KPCN were not reflecting in the system
- Fixes issue with, “always keep device on” check box where if the user manually powers off the source, then uses the Power toggle command, when Crestron Home turns on the room, the source would turn off.
- Corrects issue with deploy code imports failing if there are unexpected characters in the phone number field
- Corrects issue with CNX keypads where the backlight could stop working if activating and deactivating the device locator
- Corrects issue with C2NI-CB keypads where the backlight could not go all the way to zero
- Corrects issue where pressing the mode button on the TSTAT could cause the system to not track the matching feedback
- Corrects issue where only 24 pool parts are displayed even though the Pentair driver has up to 50

3.000.0329 03-20-2020

mc4-r_3.000.0329.puf

Changes since Last Version

New Features

- None

Bug Fixes

- Corrected RS-232 issue where depending on how much data the device was sending the system could be put into a state where the entire system appeared sluggish.
- Added protection against a reboot that could occur on some systems at midnight if the file system was full.

3.000.0328 03-20-2020

mc4-r_3.000.0328.puf

Changes since Last Version

New Features

- Added the ability to hide rooms per touch screen
- Improved Autonomic performance
- Added the ability for IP devices to show miscellaneous commands in the overflow menu
- Added support for Double-Tap button models on keypads that support it natively
 - Note: Additional button models will be added in future releases.
- Added support for importing engravings from myCrestron Crestron Home Configurator
- Added support for Wi-Fi IO accessory devices CEN-IO-2xx
- Added support for C2N-IO
- Added support for GLS-SIM
- Added option in the Crestron Home Setup app to reboot the processor
- For ISPs that have setup their DNS servers to respond to an ISP IP address for hostnames that are unknown, Crestron Home now has a more robust connection mechanism to connect to TSR-310s in those cases
- Added support for HTT-B10EX button feedback when used in non-battery mode

Bug Fixes

- Added the ability for a driver's custom property to be changed, without being forced to add the device again
- Corrected camera issue where in some cases the config file was not including the external port for the snapshot view

- Corrected Media Routing issue where, in some cases, if there were multiple paths through the system, a route through a different room could be favored over going only through the intended room.
- Increased relay pulse time maximum duration.
- Corrected an issue where changing an IP address of a Smart TV could stop the Crestron Home application.
- Corrected an issue in the Crestron Home Setup app related to setting shade limits.
- Corrected issue where only 24 pool parts displayed in the Crestron Home Setup app (so far only needed for Pentair driver).
- Added the ability for startup times to be lowered below the default startup time
 - For example: if the device is faster than the one that was tested in the lab, you can lower the startup time to react faster. You must still make sure the specific device can respond that quickly before lowering this timeout.

3.000.0249 02-03-2020

mc4-r_3.000.0249.puf

Initial Public Release

Changes since Last Version

New Features (Compared to the last version of the CP4-R, 3.000.0147)

- Added support for pool and spa controllers
- Added TSW-x60 password protection for Security, House Access, and Cameras
- Added pulse times for relays
- Autonomic is now visible again (MMS-1E, 2A, 3E, 5A and 5E)
- Added ability to adjust the backlight brightness on Horizon Keypads
- Added support to turn on a media zone with the same source as an adjoining room
 - Configure via the room options under Source Routes
- Added option, per source, to never attempt to turn off the source
- Added support for CEN-ODT-C-POE
- Added support for CLCI-MCEX-W
- Added SSL commissioning support for wired CEN-IO-* devices
- Allow replace for DIN-1TSTAT8 devices

Bug Fixes

- Removed logic that would clear a route, or power off a media zone, when not receiving feedback from a 3rd party driver.
- Fixed BACnet thermostat issue where thermostat mode change could cause the UI to report OFF.
- Corrected issue where firmware updates were not working on the CSA-PWS10S-HUB-ENET.