Control4 Operating System 2.9.1 Release Notes

Control4 Operating System Release Notes

About Control4®

Control4, a leading provider of the operating system for the smart home, delivers intelligent control of consumer electronics products, appliances and networking systems through an easy-to-use and intuitive software interface. Founded in 2003, the company delivers affordable automation and control of lighting, music, video, HVAC, security, and energy management systems to the broad market through more than 1,600 custom integrators, retail outlets, and distributors in over 65 countries. Control4 is the platform of choice for major consumer electronics companies, hotels, businesses and utilities that require an intelligent, open and affordable control solution. For more information, visit www.control4.com.

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Control4 Operating System (OS) Software Release 2.9.1 Release Notes

Contents

1. Introduction

This Control4® Operating System 2.9.1 (OS 2.9.1) release is a maintenance release and is intended for updating existing installations as well as new installations. Within this release, we are expanding our international lighting offering, enhancing our engraving capabilities, releasing a new IO Extender V2, enhancing the Alexa voice scene driver, and fixing defects. Enjoy!

2. International Lighting

2.1 New Lighting Hardware

Two new additions to the Control4 240V Square Wireless Lighting line are shipping with OS 2.9.1. Each provides independent control of one or two loads from a single device. Both the dual dimmer and dual switch fit in standard UK/China style square wall boxes. Note that they will not fit in European-style round wall boxes.

- **Square Dual Load Wireless Adaptive Phase Dimmer (C4-SDAPD240-N)**

   Allows dimming control of one or two loads from a single device so long as the device is wired with a neutral. If the device is wired without a neutral, then the dual-load device changes from a dimmer/dimmer combination to a dimmer/switch combination. The dual-load dimmer comes as a neutral keypad base (without buttons) and supports a full configurable keypad.

- **Square Dual Load Wireless Switch (C4-SDSW240-N)**

   Allows switch control of one or two loads from a single device. The dual-load switch comes as a neutral keypad base (without buttons) and supports a full configurable keypad.

2.2 New Lighting Drivers

To support the new square wireless dual-load devices, several new drivers are available in 2.9.1.

- **Keypad Dual Load Dimmer**
   This is the driver for the general device and the keypad settings. It must be connected to one or more of the light drivers below.

- **Keypad Dual Load Switch**
   This is the driver for the general device and the keypad settings. It must be connected to one or two of the non-dimmable light drivers noted below or to a relay device (e.g. fan, blind motor, etc.)

- **Dimmable Light (Square Lighting)**
   This driver contains all the light properties (preset level, ramp rates, logical LED settings, etc.) and can be connected to the Keypad Dual Load Dimmer driver.

- **Non-Dimmable Light (Square Lighting)**
   This driver contains the light properties and can be connected to either the Keypad Dual Load Dimmer driver or the Keypad Dual Load Switch driver.

2.3 Lighting Category Changes

The *Lighting* category in the My Drivers area of Composer Pro has been reorganized to make it easier to find the appropriate lighting driver. It is now divided into five primary categories: *Decora Lighting*, *Keypads*, *Outlet Lighting*, *Panelized Lighting*, and *Square Lighting*.

To see the new changes, right click in the My Drivers list and select **Restore Default List**.

2.4 Engraving Enhancements

OS 2.9.1 adds two highly requested features to the keypad button engraving capabilities. It is now possible to select **Left**, **Center**, or **Right** justification for engraved buttons. It is also possible to select **Standard** or **Large** font size. Standard is the font size that has been used on all engraving prior to OS 2.9.1. Large uses the same font style but is about 25% larger. Note that using the Large font option will decrease the number of characters that will fit on one button. Also, note that the font size option will be disabled for any buttons engraved in Chinese as Chinese engraving was already using the larger font and it has been determined that the laser cannot create legible Chinese characters in the smaller standard font size.

These options are only selectable at the device level, not the individual button level. For example, you can have an entire keypad that is engraved with left justification but not a keypad that has one button with left justification and another with right justification.

3. IO Extender V2

The intent behind the IO Extender (IOX) V2 is two-fold. First, is to upgrade the aesthetics to a more modern look and feel that will match our controller line. In fact, the IOX V2 has essentially the same case and footprint as the EA-5 with obvious tweaks in the back to match the connection of the IO Extender components. The other major change is that the IOX V2 will now support power over Ethernet (POE+). Apart from those changes, the board in the IOX V2 is essentially the same as the previous version allowing the IOX V2 to use the same driver as the original IOX.

Note: The driver for the IO Extender V2 is the same driver as the currently shipping IO Extender.

4. Amazon Alexa and Voice Scene Driver Update

We have improved the overall performance of the Amazon Alexa experience through significant enhancements to our cloud infrastructure that supports Amazon Alexa and Control4 integration.

We have also updated the Voice Scene driver to allow you to **lock** doors, **arm** security systems, and **close** garage doors. However, you still are not able to **unlock** doors, **disarm** security systems, **open** garage doors, or use the other prohibitive devices listed in the driver due to security and safety considerations. If you a create a scene that has a prohibitive device call, that scene will flagged as a prohibitive scene and will not be discovered by Alexa.

We have added a property to the driver page that lists any scenes that have prohibitive device calls so you can quickly identify prohibitive scenes to resolve them. If you add a prohibitive device call to an existing scene and then try to execute that scene, you will get an error message. In both cases, after you fix the programming on these scenes, the scene will be removed from the prohibitive scenes and will be available for Alexa.

5. New or Updated Drivers

The drivers listed below are the drivers that were either newly released or updated since the previous release of the OS.

- DirecTV NOW mini driver for Amazon Fire TV
- Linn DS
- LG 2016 TV drivers
- Samsung 2016 IR
- HikVision NVR
- Sony STR-DN1070
- JVC MK8 Projectors
- Sony 2017 Projectors
- Pioneer 2016 AVRs (TIDAL)
- No Control Device Shortcuts 2.9
- Timed Devices (UI Button Proxy 2.9)
- Button Timer driver
- LED Wizard driver
- Key/Button Driver 2.9
- Generic Scenario Buttons 2.9
- Leaf LT2020 updated driver
- Lutron - Houselogix drivers for online DB
- Sony HT-NT5 soundbar
- Pioneer 2017 AVRs
- OS 2.9 Cameras
- 4K C4-LU/LU series driver v291
- DMP Security Panel
- Yamaha MSP WXA/C-50
- Dish Driver
- NAPCO Gem-X255
- QNAP
- Sony 2016 BD players
- Security Light Experience
- Timer Drivers - Updates
- Irrigation Program
- Snapshot 2.9

- Sonos (Endorsed) driver
- Elk Security Panel
- Mockupancy - Add LED color following
- Sony TV IP driver
- Pakedge P2/8/20 PDU
- Russound MCA-66 + MCA-88
- NuVo On-Q MSP driver
- Denon AVR Group 4 2016

6. Defect Changes

The defects listed below were items that were addressed in OS 2.9.1 and were found in a previous release.

6.1 Blinds/Shade Fixes

- 12428—The stop connection disappears for the Control4 blind group driver.

- 19514—IR blinds driver only moves momentarily.

- 19526—Lost full control of the Somfy RTS URTSI II after updating to OS 2.9.0.

- 25565—The dual relay blind is sending the stop command before movement occurs.

- 25802—While opening and closing the Somfy RTS URTSI II on a single blind, it is causing all blinds to open, and vice versa.

- 26257—Preventing the ability to accidentally disconnect the louver from the blind on the RadioRA2 and HomeWorks QS drivers

6.2 Backend Fixes

- 25175—The EA controller is randomly dying 'java.net.SocketTimeoutException:'

- 12018—DSC TL-280 security panel driver memory leak fix.

- 12364—On some installs, bindings are being lost after updating to OS 2.9.0.

- 25555—EA controllers initially failing the update with an error of: 'report a status of update_failed. Could not install'.

- 12427—High CPU usage for raproxyd process

- 25524—A thread that controls data transfers in RAProxy dies.

- 27110 – Intercom call stop responding and require a reboot after reaching a certain large number of calls.

6.3 Composer Fixes

- 12363—Unable to set Geo coordinates using a German locale on the Windows 10 platform.

- 19501—Composer fails to connect with an error that: "Online services will not be available on 2.9.0 startup in some instances"

6.4   Lighting Fixes

- 12397—Panelized lighting relay modules are going offline after a week or two when upgrading to OS 2.9.

- 26072—Unable to see the full lighting scene names on the mobile UI.

6.5   Thermostat and Temperature Fixes

- 12356—The thermostat crashes navigators when adjusting humidity.

- 12381—When you edit the schedule and change the time, it looks like it changes the temperature to Celsius

- 12391—Performance issues on the Android TS when switching rooms/drilling down to thermostats.

- 19508—Cannot edit the Heatmiser Thermostats scheduled temperature on any Android-based device.

- 25187—Control4 App for iPad does not display/support the Dehumidifying state

- 25259—The temperature on the icon on the COP does not always update.

- 25553—Dynamically updating from single setpoint to ranged does not update the Android UI

- 26071—Unable to see the time on a thermostat schedule when time is showing 4 digits like 22:00 (24 hour)

6.6   Audio/Video Fixes

- 12330, 12331, 25412—Memory leak in MSP based services (Napster, Deezer, and Pandora)

- 12426—Audio clicks and dropouts when streaming via ShairBridge

- 25545—ShairBridge option on iOS Device is slow to show.

- 25548—ShairBridge is dropping service and switching back to the AirPlay device, when previewing songs on an album

- 25579—ShairBridge: If ShairBridge process crashes, the driver will never reconnect.

- 19492—Rhapsody Channels & My Playlists need to change to Napster

- 25258—Audio Matrix Switch is failing to update.

- 25549—Pandora audio streams are randomly stopping and cannot be played until you turn off and on the stream.

- 25570—AV Pathing: If a digital source, like TuneIn is selected in a third room (steals input from audio output to another room), then the audio outputs from that specific controller are limited to one.

- 26177—TuneIn dropping audio after a long period of time streaming. Error specific Message: Stuck jitterbuffer.

- 26598—Audio is randomly 'stopping' while streaming with the following error: 'Graceful shutdown timed out, force-killing streamer'

- 12435—On iOS the Listen button doesn't reflect a press when in landscape mode.
- 19499—The Denon HEOS Napster radio causes navigator to crash.
- 25280—Performance issue on the T3 touch screen while using Pandora.
- 25370, 25414—iOS10 app crashes when using Sonos.
- 25540—Audio zones with endpoints set to a 4-Zone Matrix Amp do not show mute status
- 25590—Android based navigators fail to load beyond the first 50 items of a CollectionScreen when using non-digital-media device.
- 26865—Audio not coming through controller when changing ShairBridge name in Composer.

6.7 User Interface Fixes

- 12287—The Wakeup/Goodnight Agent cannot activate wakeup on a flash device until you trigger it from a T3 or Android mobile.
- 25765—Wakeup/Goodnight Agent: Alarm executes 1 hour early with daylight savings.
- 26059—Access Agent does not popup code keypad on flash based navigators.
- 12431—Updated language strings.
- 25275—EA-1 OSD Unable to Navigate Correctly around GUI
- 26303—T3 touch screen navigators incorrectly hold the previous rooms levels.
- 26309—T3 touch screen crashes if weather services is offline.
- 26536—Android Mobile: Not all rooms are populated in the UI
- 12226—EA navigator home screen is not starting on its own.
- 26392—The EA controller on screen is not getting showing the updated IP address once it has changed.

6.8 ZigBee and Z-Wave Fixes

- 11856—Z-Wave devices taking over 2 minutes to respond.
- 12265—Message manager may not return to a status of up after a serial session layer restart
- 25575—Improved ZigBee performance by resolving an issue where the closest node was not always being selected.
- 11197—ZigBee devices going offline during an install and needing a reboot.

7. Life Cycle and Maintenance Changes

There are no new life cycle changes between OS 2.9.0 and OS 2.9.1.

8. Updated or New Firmware

Device	Firmware Version
Gen3i Dual Load Dimmer	1.0.108.d4e1541
Gen3i Dual Load Switch	1.0.117.92f37eb
Gen3i Dimmer	1.0.223.84dce14
Gen3i Switch	1.0.131.fe2c5d8
Gen3 APD, KD, and FPD	4.0.39.0cecba2
Panelized Lighting Relay	03.25.05_2.6.1.477168-fw
Panelized Lighting Dimmer	03.25.05_2.6.1.477168-fw
Panelized Lighting 0-10v	03.25.05_2.6.1.477168-fw

9. Upgrading to OS 2.9.1

There were some major changes in OS 2.6.0 that still apply with OS 2.9.1. They will require careful consideration if you are not already on OS 2.6.0 or higher. These changes include some life cycle changes, removal of legacy software, and the splitting of mobile apps into two separate applications: one for supporting legacy installations, and one to move forward with the new installation requirements.

9.1 Update Recommendations for Existing Systems

IMPORTANT! *(1) The OS 2.9.1 release utilizes ZigBee Pro for ZigBee RF communications. Controllers and ZigBee firmware devices upgraded to OS 2.1 or later cannot be downgraded to Release 1.7.4 or prior versions.*

(2) A few legacy products are not supported in OS 2.9.1. Other products are supported, but may have limited functionality or may not provide access to new capabilities. For a current list of products and lifecycles, see http://dealer.control4.com/dealer/support/product-lifecycle.

(3) OS 2.9.1 is a complete system software release. All supported Control4 devices will receive new software or firmware. The update process will affect all devices in the Control4 system.

9.1.1 ZigBee Pro

Control4 has been utilizing ZigBee Pro for ZigBee RF communications since the release of OS 1.8 in August 2009. With the introduction of OS 2.6.0, you no longer have the ability to upgrade Embernet-based devices, and will continue to be the case in subsequent releases. If you have Embernet-based ZigBee devices in inventory or taken from another system, they must be installed on an OS 2.5.x system and have their firmware updated to ZigBee Pro prior to being installed on an OS 2.9.1 system.

9.1.2 Software License

In conjunction with the OS 2.0 release, Control4 introduced a Software License. All new controller hardware product purchases include a Software License. This same license applies to OS 2.9.1. Customers who have systems purchased prior to OS 2.0 can purchase a software license for OS 2.9.1.

- A dealer must purchase and assign a license to the customer's Control4 account (to which the system is registered) to upgrade prior-version systems to OS 2.9.1. If an upgrade is to be performed immediately after adding a license, the dealer should perform a "Check In" using Composer Pro (Tools > Account Services).
- Customers who have previously updated their systems to any OS 2.x version will have the needed license to update to OS 2.9.1.
- Control4 provides a no-charge OS 2.x license for controllers shipped on/after December 23, 2009. No paperwork or manual approval is required to receive the no-charge upgrade. To receive the no-charge upgrade, the eligible controller must be the Primary Controller for the Control4 system. During the upgrade process, Update Manager will check the MAC address of the primary controller. If it is in the Control4 list of controllers shipped on/after December 23, 2009, the upgrade will proceed without requiring a software license.

9.2 Quick Reference to the OS 2.9.1 and Later Upgrade Process

9.2.1 Pre-work Prior to Arrival at the Customer's Location

1. Ensure that Composer Pro for OS 2.9.1 and later has been installed and activated on the installer's laptop or PC. Internet connectivity is required for activation for first-time installations.
2. **Internet connectivity is required on the premises for upgrading from OS 2.2.x to OS 2.9.1 and later**. After the Primary Controller has been updated to OS 2.9.1, the USB Install for OS 2.9.1 can be used to update the remainder of the devices on the system. Ensure that Internet connectivity is available or plan for temporary Internet connectivity during the time the upgrade is performed. You can then upgrade the system to OS 2.9.1.
3. **If a software license is needed, use your dealer account** on my.control4.com to assign the license to the customer's account.
4. **If updating from Release 1.7.4, 1.8.2, or a prior version**, you must first upgrade them to 2.2.x before they will be allowed to upgrade to 2.9.1

9.2.2 Upon Arrival at the Customer's Location

1. Connect to the Control4 system using the appropriate version of Composer Pro for the system that is currently running.
   a. Ensure that all IP and ZigBee devices have been identified and are online.
   b. Ensure that all system programming is working as it should prior to beginning the update.
   c. Make a backup of the Control4 system in Composer Pro prior to beginning the update. This backup should be named so that you can find it later if needed.
2. (Optional) Make sure that the customer's media collection is backed up. Whether the media is stored on a Control4 controller hard drive, a USB drive, or a network-attached storage device, it is

subject to loss if the storage device fails. Control4 doesn't provide backup solutions for data storage, but recommends that you ensure that customers use a backup solution.

3. Connect to the Control4 system using Composer Pro 2.9.1 (or later) to initiate the upgrade to OS 2.9.1 or later, and then use Update Manager to begin the update process.

4. After the update, reboot the PC running Composer Pro to ensure that the Samba mounts to the controllers are current.

5. Back up the project. After completing the update, make a backup file of the Composer Pro project. Give it a name that distinguishes it from the pre-upgrade backup. If you ever need to restore this system, having a current backup will save you a lot of time and effort.

9.3   Residential Software Product Releases

Control4 Software Releases (from Inception)		
Release 1.x.x		
Wednesday, July 06, 2005	1.0.203.8	Initial Release
Friday, September 02, 2005	1.1.2.2	Maintenance Release
Friday, October 14, 2005	1.2.0.90	Maintenance Release
Thursday, November 03, 2005	1.2.2.6	Maintenance Release
Sunday, December 28, 2005	1.2.3.43	WiFi Support
Monday, March 06, 2006	1.2.4.48	Maintenance Release
Thursday, March 23, 2006	1.2.4.50	Maintenance Release
Tuesday, May 30, 2006	1.2.5.28	Thermostat and Outlet Modules Support
Release 1.3.x		
Thursday, September 07, 2006	1.3.0	Initial Release
Monday, October 16, 2006	1.3.0.351	
Wednesday, December 20, 2006	1.3.1.114	Initial Release
Friday, January 12, 2007	1.3.1.116	
Wednesday, March 07, 2007	1.3.1.120	Daylight Savings Time Change
Tuesday, March 20, 2007	1.3.1.122	
Monday, July 23, 2007	1.3.2.228	Initial Release
Friday, August 03, 2007	1.3.2.230	Maintenance Release—Updating firmware on Amp, Switch, etc.

Control4 Software Releases (from Inception)		
Thursday, August 23, 2007	1.3.2.234	Maintenance Release—Various fixes, including NAS on HC-300.
Wednesday, October 31, 2007	1.3.2.298	Support for Amplifier V3 Release
Thursday, November 15, 2007	1.3.2.318	Support for HC-1000 Release
Tuesday, February 26, 2008	1.3.2.438	Support for HC-500 Release
Wednesday, April 30, 2008	1.3.2.442	Maintenance Release—Disable Onboard Serial Port on HC-300/HC-500.
Wednesday, June 11, 2008	1.3.2.442	HC300 VBUS Change to Kernel.
Release 1.6.x		
Tuesday, July 29, 2008	1.6.0.486	Initial Release
Wednesday, Sept 17, 2008	1.6.0.512	Maintenance Release, SR-250
Release 1.7.x		
Monday, December 01, 2008	1.7.0.348	Initial Release
Monday, December 29, 2008	1.7.1.290	Dock for iPod Release
Monday, March 30, 2009	1.7.2.160	Remove Polling; HC-1000v2, ELV Dimmer, 7" Portable Touch Screen
Wednesday, April 29, 2009	1.7.3.20	7" Portable Touch Screen Release
Tuesday, September 29, 2009	1.7.3.68	Maintenance Release—Audio priority and 7" Touch Screen
Monday, December 14, 2009	1.7.4.36	Maintenance Release—On-Screen focus and Zones improvements
Release 1.8.x		
Monday, August 31, 2009	1.8.0.44415	Initial Release
Monday, November 16, 2009	1.8.2.56194	Initial Release—multiple ZigBee Servers and Security changes
Wednesday, March 17, 2010	1.8.2.66691	Maintenance Release—Thermostat and B&D Lock
Release 2.0.x		

Control4 Software Releases (from Inception)		
Tuesday, June 29, 2010	2.0.0.80198	Initial Release
Wednesday, August 18, 2010	2.0.1.86265	Maintenance Release—HC-200B/HC-300C
Tuesday, September 7, 2010	2.0.2.88485	Maintenance Release—7" IE Touch Screen
Tuesday, October 19, 2010	2.0.4.92890	Maintenance Release—Fix snmpd/crond lockup
Tuesday, December 14, 2010	2.0.5.99233	Maintenance Release—HC-200B as primary controller
Wednesday, January 19, 2011	2.0.6.102864	Maintenance Release—5" In-Wall Touch Screen
Release 2.1.x		
Tuesday, June 7, 2011	2.1.0.126418	Initial Release
Tuesday, August 30, 2011	2.1.1.135702	Maintenance Release—Fix Flash Navigator lockups.
Release 2.2.x		
Tuesday, January 31, 2012	2.2.0.158343	Initial Release—HC-800 and 7" Portable Touch Screen with Camera
Wednesday, April 18, 2012	2.2.1.171726	Maintenance Release—HC-250
Monday, June 25, 2012	2.2.2.184775	Maintenance Release—7" In-Wall Touch Screen with Camera, Door Station – Exterior
Wednesday, October 3, 2012	2.2.4.200568	Maintenance Release—Sony STR receiver, Door Station – Interior driver
Release 2.3.0		
Wednesday, December 12, 2012	2.3.0.210826-res	Initial Release—New agents, new Lighting UI, SDDP, new MyHome device management in licensing.
Release 2.4.0		
Wednesday, April 10, 2013	2.4.0.227470-res	Initial Release—Anywhere Access, TuneIn, Remote Recharging Station, and software improvements.
Release 2.5.x		

Control4 Software Releases (from Inception)		
Thursday, June 6, 2013	2.5.0.235326-res	Initial Release—Next generation of lighting products, new line of Panelized Lighting products, and Wireless Music Bridge.
Thursday, August 8, 2013	2.5.1.242407-res	Maintenance Release—Configurable Decora Wired Keypad, Bus Ethernet Gateway, 48V Bus Power Supply; bug fixes.
Thursday, September 19, 2013	2.5.2.247182-res	Maintenance Release—Audio Matrix Switch, 8x8 HDMI Matrix Switch, 100 Series Power Amplifiers, bug fixes.
Wednesday, February 26, 2014	2.5.3.429171-res	Maintenance Release—Camera proxy, integrity detection & repair tool, WMA support, bug fixes.
Release 2.6.x		
Wednesday, September 10, 2014	2.6.0.455411-res	Initial Release— MSP and Pool UI, parity features, composer express, composer search/filter tools, dry input contact, new 48v power supply life cycle changes, bug fixes.
Release 2.7.x		
Tuesday, March 24, 2015	2.7.0.505218-res	Initial Release – Touch Screens, Thermostat v2 (C4-THERM) and Thermostat UI, SR-260, Composer Tools, Mobile Changes
Tuesday, May 5, 2015	2.7.1.506055-res	Maintenance Release – Defect fixes and new manufacturing image for T3 inwall touch screens.
Thursday, June 25, 2015	2.7.2.507543-res	Maintenance Release – Defect fixes and T3 7" Tabletop.
Release 2.8.x		
Wednesday, October 14, 2015	2.8.0.512161-res	Initial Release – Security, My Music, Movies, Channels, Cloud Backup, T3 Wallpaper & Screensaver, and defect fixes.
Tuesday, January 26, 2016	2.8.1.514313-res	Maintenance Release – Defect fixes and T3 10" Tabletop, EA controllers, Apple Watch app, DS2 Door Station
Tuesday, April 5, 2016.	2.8.2.515794-res	Maintenance Release – Defect fixes, Card Access rebrand, and Chinese engraving
Release 2.9.x		

Control4 Software Releases (from Inception)		
Wednesday, September 14, 2016	2.9.0.525559-res	Initial Release – Hospitality, MDU, Z-Wave, Shades UI, Custom buttons
Wednesday, February 1, 2017	2.9.1.532460532 460-res	Maintenance Release – Gen3i Dual Load, IOX V2, Alexa update, defect fixes

10. Technical Support Contact Information

If you encounter any issues during or following the update, or if you have any questions, please contact Control4 Technical Support for assistance.

Phone: 1-888-400-4072

Email: support@control4.com

For more information about the new features and capabilities of OS 2.9.1 or later, visit http://dealer.control4.com/dealer/training.

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