



## General

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These release notes address the notable changes and information about the ControlSpace Designer software release, version 5.9. This information is current as of March 5, 2021.

For additional information regarding the ControlSpace Designer software see:

[https://pro.bose.com/en\\_us/products/software/signal\\_processing/controlspace\\_designer.html#v=controlspace\\_designer\\_variant](https://pro.bose.com/en_us/products/software/signal_processing/controlspace_designer.html#v=controlspace_designer_variant)

Questions and feedback related to the use and application of ControlSpace systems can be found at the Bose Professional Pro Audio community forum: <https://community.bose.com/t5/Professional-Installed/bd-p/proaudio>

## Features / Improvements

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This release includes the following new and improved functionality:

### Audio Performance

1. Parametric EQs operating on the ESP and EX processors are updated to eliminate audio dropout when a value (Frequency, Bandwidth, Gain) is modified.

### Dante Networked Audio

1. Bose Professional devices now support AES67 subscriptions.
2. Bose Professional devices that use Dante audio networking have been upgraded for compatibility with Dante 4.2. This requires that devices that utilize Dante networking must be upgraded to maintain compatibility with CSD 5.9.
3. Firmware updates for Dante devices should be performed using Dante Updater which can be launched from within the Dante Controller application. Devices which employ the Audinate Brooklyn-II module, (ESP00-II, ESP and EX processors, PowerMatch, and EX-8ML) must be manually rebooted when their Dante firmware is updated using Dante Controller.
4. Dante Domain Manager support is now available for all Bose Professional Dante devices. Support includes:
  - a Addition of new menu item, Dante Domain, to filter the Project View to display all devices on the network, devices within a specific Dante Domain, or ad-hoc Dante devices. These filters do not affect non-ControlSpace or Dante devices such as loudspeaker icons or non-networked devices.
  - b Addition of new Dante Domain Overview window that displays all active Dante devices and their domain and connection status. The Dante Domain Overview is accessed by selecting Window>Dante Domain Overview, or through right-clicking on a Dante device and selecting "Open Dante Domain Overview". This window displays all active Dante devices and their domain and connection status.
  - c Information related to Dante devices and their subscription to Dante Domain, as well as Dante Domain connection information is saved with the ControlSpace Design File, .csp.



- d DDM is a major Dante upgrade and requires that devices are using version 4.2 or newer of Dante firmware. To prevent compatibility issues with DDM a minimum Dante firmware version is now implemented. Devices that are not running the minimum Dante firmware version will have to be updated using Dante Controller in order to establish a connection using ControlSpace Designer software.
- 5. Support for the import of Dante channel names is disabled. All dialogs, menu items and automated detection of Dante channel names will be re-introduced in the 5.10 release of ControlSpace Designer software.
- 6. Old Dante firmware, .dnt, files have been removed from the Dante firmware directory.

### Device Improvements

- 1. ControlSpace EX and ESP devices now store a debug log locally on the device. Debug logs are maintained after a power cycle event and can be retrieved using a modified version of ControlSpace Designer. This feature is intended to assist with support of installed systems when additional information is required to help identify and solve field issues. To access the debug log use the following steps:

*Command Window (run as Administrator)*

- 1) Open a new Command Window and run it as an Administrator
- 2) Enter: `cd C:\Program Files (x86)\Bose\ControlSpace 5.9\bin`
- 3) Enter: `CSDesigner.exe -l`
- 4) This will launch CS Designer in debug logging mode.

*Create a desktop shortcut for debug logging mode.*

- 1) Navigate to `C:\Program Files (x86)\Bose\ControlSpace 5.9\bin`
- 2) Right-Click on the CSDesigner application and select "Create shortcut"
- 3) When prompted to create the shortcut on the desktop select "OK" a new shortcut will be placed on the desktop.
- 4) Right-Click on the ControlSpace Designer 5.9 desktop shortcut icon and select "Properties"
- 5) In the Target field enter ' -l' (space dash l), l for "logging", after the text in the Target field.
- 6) Launch ControlSpace Designer 5.9 using the shortcut.

Once the application is running in logging mode you will be able to retrieve the debug log by right-clicking on a ControlSpace processor and selecting "Download system log..." from the context menu. Note that you must have an active connection to download the system log.

- 2. Upon bootup ControlSpace ESP and EX models disable SSH communications.
- 3. The following devices now support DHCP for acquiring a network address when connected to a system which has a DHCP server residing on the network: ESP processors, (ESP-00-II is excluded), EX Processors, PowerShare amplifiers, PowerMatch amplifiers, MSA12X loudspeakers and CC-1/2/3D Controls.
- 4. The following devices now support Link Local network addressing when no DHCP server is present on the network: ESP Processors, (ESP-00-II is excluded) and PowerMatch amplifiers.



**NOTE:** Link Local and DHCP operation is intended for initial system setup and is not recommended for long term operation, particularly when control functions are required. Bose Professional devices that use Dante audio networking have been upgraded for compatibility with Dante 4.2. This requires that devices that utilize Dante networking must be upgraded for compatibility with CSD 5.9.

## Miscellaneous

1. A new Device Status display is available that shows the current connection status of all devices in the system. Devices that lose a connection during an active ControlSpace Designer session are displayed as “Disconnected” in the Device Status display and icons within the Project View are grayed out.
2. Loudspeaker Support changes:
  - a Updated the EdgeMax loudspeaker processing settings for 8 Ohm operation to reflect the correct limiter settings.
3. A new Discontinued section is added to the Project View device list. All recent and legacy models that have been discontinued are now located here.
  - a Device List within Project View is updated to improve ability to navigate and find devices.
  - b All ESP and EX processors are now listed within the Sound Processors branch of the Project View Device List.
4. Updated AMX and Crestron device drivers for ControlSpace devices.
5. Smartbass updates for DesignMax loudspeakers and devices are now listed alphabetically within the loudspeakers drop down menu.

## Fixes

This release includes the following fixes. Issues discovered during internal testing of new features and functions are not included in the following list. For a complete list of defects addressed in this release contact Bose Professional Engineering.

1. Addressed issue with incorrect translation from Q to BW in Speaker PEQ processing block. (CSUPDATES-6549)
2. Addressed issue where a PowerMatch amplifier could not be changed from STATIC IP addressing to DHCP. (CSUPDATES-6433)
3. Timer events now execute properly when Daylight Savings time adjustment is enabled. (CSUPDATES-6559)
4. Dante subscriptions removed when Dante I/O is deleted from within the processing view of an ESP/EX processor. (CSUPDATES-6520)
5. Corrections to information within the ControlSpace Serial Protocol documentation. (CSUPDATES-5995, 6594 and 6595)
6. Issue related to loudspeaker EQ not be properly applied when selected from front panel of PowerMatch amplifier. (CSUPDATES-6503)
7. Addressed issue with SmartBass processing blocks showing as calibrated when that was not correct. (CSUPDATES-6552)



8. Addressed issues with SmartBass which caused limiter to prematurely engage resulting in audible pumping (CSUPDATES-6550, 6561, 6606 and 6607)
9. Clean up of on-screen help for SmartBass. (CSUPDATES-5977)
10. Issue with EX processor not booting up when it is enrolled in a Dante Domain and the DDM server is offline. (CSUPDATES-6436)
11. Issue with timers not executing on EX processor that is not the RTC. (CSUPDATES-6483)
12. MSA12X device not properly displaying inputs on the Project View icon. (CSUPDATES-6509)
13. Issue with multiple input connections on SMS118 subwoofer. (CSUPDATES-6513)
14. Issue with EX-UH USB routing being incorrect when using Microsoft Teams. (CSUPDATES-5205)
15. Message notifying user of loss of communication with Dante devices appears behind main application window. (CSUPDATES-6251)
16. SmartBass limiting prematurely due to calibration issue. (CSUPDATES-6089)
17. Issue related to CSD not automatically generating Dante subscriptions for MSA12X loudspeaker when it is included in the system design. (CSUPDATES-6070)
18. Issue related to ESP-00 not booting after 50 power cycles has been fixed. (CSUPDATES-5788)
19. Serial Subscriptions does not work on RS232 port, (CSUPDATES-5244)
20. Unable to select range of Dante I/O channels with shift, (CSUPDATES-5276)
21. CRR Matrix not picking up Label names for Outputs, (CSUPDATES-5420)
22. Non-RTC PSetRecall not recalling PSet on other devices, (CSUPDATES-5465)
23. USB input meters display full scale when CSD offline, (CSUPDATES-5466)
24. CSD Multi-line device labeling, (CSUPDATES-5544)
25. Unable to run CSD in monitor mode, (CSUPDATES-5547)
26. PowerMatch alignment delay is not applied, (CSUPDATES-5743)
27. Load external Dante channel names is enabled when Dante Control is disabled, (CSUPDATES-5767)
28. Reselecting TCC2 Dante channels causes CSD to crash, (CSUPDATES-5821)
29. Issue related to CC-xD controlling an ESP-00 chassis, (CSUPDATES-5553)
30. CC-xD Mode Setting not available within Hardware Manager, (CSUPDATES-5572)
31. Input / Output Mute of PowerShare matrix router not working with SIOP, (CSUPDATES-6107)
32. Room Combine Member query through SOIP always returns "False", (CSUPDATES-6134)
33. Room Combine Group Number query returns "Error 99", (CSUPDATES-6135)
34. Monitor Mode not working, (CSUPDATES-6215)
35. Crash when opening file containing multiple Parameter Set Recall logic blocks, (CSUPDATES-6221)
36. Processor reboots when receiving project file, (CSUPDATES-6445)



## ControlSpace Remote

This release is compatible with ControlSpace Remote version 2.10.

## 3<sup>rd</sup> Party Control

This release includes the following updates and improvements to 3<sup>rd</sup> party control of ControlSpace systems.

1. Updated Crestron that addresses Gain module sending incorrect values, parsing ParameterSet bug and an issue with character limit on label names.
2. Updated AMX driver that adds Group Volume Control function.

## Firmware Versions

This release of ControlSpace Designer software requires a firmware for specific devices to enable the functionality included in this release. Updated firmware versions are noted with shading in the following table:

Device/s	Device FW	Dante FW	Notes
ESP-00-II	5.040	3.0.0	
ESP-880/880A/880AD/1240/1240A/1240AD/1600/4120	3.540	3.0.0	
EX-12AEC/440C/1280/1280C	2.340	3.0.1	
PM4250N/4500N/8250N/8500N	3.750	3.0.0	
PS-404D/604D	1.510	3.0.0	
EP22/40-D	--	5.0.0	
EX-4ML/8ML	2.000	3.0.0	
EX-UH	2.000	3.0.0	
WP22B/BU-D	--	5.0.0	
CC-64	1.120	--	
CC-1/2/3D	0.910	--	
MSA12X	1.042	3.0.0	



## Known Issues, Defects and Limitations

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The following are the known issues and defects with this release. Information included here can be useful when troubleshooting issues with software or hardware operation:

### General Issues

1. CSD can encounter various issues if a Commercial Sound Processor (CSP) or PowerSpace+ is plugged into the same network. Disconnecting the device resolves the issues. (CSUPDATES-5509)
2. If a USB Input Module is not wired to an Output Module, that Module will not show Metering data. (CSUPDATES-6112)

### CSD Logic Blocks

1. Assigning a Logic Action from an ESP-00 to a Trigger on an EX-1280 will result in an error. (CSUPDATES-6113)
2. The states of Logic Connectors within the Logic Wiring View may sometimes show the incorrect state. This does not affect the functionality.
3. If you connect the logic out of a USB to a Parameter Set Recall block, when you go online, the connection disappears. (CSUPDATES-6108)
4. PSet is not recalled via PSetRecall block if the PSet selection within the PSetRecall block is changed after the PSetRecall block has been wired and when wired from the PSetRecall block to another block. (CSUPDATES-6109)
5. The logic out of the meter block never changes color although it triggers correctly. (CSUPDATES-6110)

### Under Table Boxes

1. The EX-8ML may boot up with a Link Local address upon first use, rather than DHCP. Rebooting the device will then revert the address to DHCP. (CSFLAM-261)

### Telephone Call Functionality

1. PSTN and VoIP Ring and Voice Levels are not being properly set. There is no difference in audible level between 0 dB and +10 dB. (CSFLAM-202)

### ControlSpace Remote

1. On an Avaya system It is not possible to end a VoIP call with CSR when the Far End is in a "Hold" state. (CSUPDATES-4352)

### Other Issues

1. When programming Selectors, Gains, Analog Inputs/Outputs for GPI digital, they may not function when using EX-1280C with Legacy devices. (CSUPDATES-6116)
2. PowerMatch will not alert the user to a Digital Audio loss (Dante, AmpLink, ESPLink, CobraNet or other Digital Audio Sources). (PROSUPPORT-399)



## Minimum System Requirements

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The following are the minimum system requirements for running ControlSpace Designer software:

- Microsoft Windows 10 (32bit or 64bit)
- 1GHz processor (or better)
- 512MB of available RAM (1GB recommended)
- 512MB of available disk space
- Minimum resolution of 1366x768 WXGA
- 1 available USB port
- 1 available Ethernet port (100 MB minimum, 1GB recommended)
- ControlSpace Designer requires Microsoft® .NET Frameworks 4.5 to be installed. If required, this will be installed automatically as part of the ControlSpace Designer installation.
- ControlSpace Designer also requires the Microsoft® Visual C++ 2019 runtime library. If required, this will be installed automatically as part of the ControlSpace Designer installation.

**Note:** Microsoft Windows XP, 8, and 8.1 are no longer officially supported.