

## Overview

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These release notes address the notable changes and information about the ControlSpace Designer software release version 5.12. Version 5.12 is a feature release that improves Version 5.11 with the following list:

For additional information regarding the ControlSpace Designer software see:

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

## Updates in ControlSpace Designer software 5.12 (Released Aug 2023)

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### New Features

1. Updated logos and branding to Bose Professional
2. Add output Voltage units to PowerMatch (Vpeak), PowerShare-D (Vrms), and PowerShare-X (Vpeak) amplifier output control panel.
3. Added support for PowerShareX (shortened to PSX throughout release notes) amplifiers including these visible new features
  - a. Bose Professional Speaker PEQ support
    - i. Added clip limiter to limiter signal processing block for PowerShareX amplifiers
    - ii. Added custom limiter values and settings for PowerShareX for Bose Professional Speaker EQs to match PowerMatch limiter performance
  - b. Ability to configure a PowerShareX amplifier output in Hi-Z mode and apply Lo-Z limiter settings. This allows larger loudspeakers and subwoofers to run on single unbridged PSX1204 and PSX2404 channels with asymmetrical power sharing
  - c. Hardware Settings Guide added to PowerShareX amplifier properties view to assist integrators with rear-panel dip-switch configuration .
  - d. Added PEQ-8Band for each output channel of PSX, PowerMatch had PEQ-5Band
  - e. Amplifier properties mismatch checking and prevention
    - i. A mismatch means that a dipswitch on rear of amplifier doesn't match software setting for output type, 2-ohm optimized, NRG save.
    - ii. CSD will check that rear panel dip-switches and software output settings match when you attempt to go online and alert you to mismatches
    - iii. prevention is done by excluding misconfigured devices from the Network Connection list when going online



4. File Save As dialog is presented when going online or offline with PowerShare-X amplifiers in the project when there is no Bose DSP (EX, ESP) or other Bose Amplifier such as PowerMatch acting as RTC/Main device to store the project file.
  - i Though fixed signal processing settings (parameters) are stored with a PowerShareX amplifier when no Bose DSP is present - additional settings such as groups, and notes will be lost unless you save the file locally and re-open it manually before resuming additional programming work.

## Changes

1. Improved the layout and speakers of the ArrayEQ control panel.
2. Automatically add Windows Firewall rules during installation.
3. Improved Network Settings successful change message.

## Fixes

### Audio Processing

1. Fixed issue restoring ArrayEQ defaults
2. Fixes issue where crashing CSD when adjusting ArrayEQ loudspeaker series

### ControlSpace Remote

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This release is compatible with ControlSpace Remote 2.10 and will be compatible with ControlSpace Remote 3.0. Some limitations exist with CSD 5.12 and 2.10 when PowerShareX amplifier is present in the project file. See known Issues, defects and limitations section for details.

### Third-party Control

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Please note the available Crestron and AMX files at [BoseProfessional.com](http://BoseProfessional.com)  
[Bose EX, ESP, EX-8ML Drivers for use with Crestron Systems, November 2022](#),  
[Bose EX Driver for use with AMX, November 2022](#)

## Firmware Versions

This release of ControlSpace Designer software requires a firmware update for specific devices to go online. Updated firmware versions are noted with shading in the following table:

Device(s)	Device FW	Dante FW
ESP-880A (Fixed IO Processors) ESP-880/880AD/1240/1240A/1240AD/1600/4120	3.810	3.0.1
EX-12AEC/440C/1280/1280C	2.710	3.0.2
PM4250N/4500N/8250N/8500N	4.010	3.0.1
PSX1204D/2404D/4804D	1.11.0.152	2.1.5
PS404D/604D	1.600	3.0.0
EX-4ML/8ML	2.000	3.0.0
EX-UH	2.000	3.0.0
CC-64	1.120	-
CC-1D/2D/3D	0.914	-
MSA12X	1.054	3.0.0
ESP-00 II (Variable IO Processors)	5.110	3.0.1

## Known Issues, Defects and Limitations

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:

### Settings in Device

1. PSX does not perform impedance load monitoring during phase 1
2. PSX cannot act as RTC/Main device during phase 1
3. PSX cannot allow parameter sets, CC-xD, CSR controls to dynamically control the amplifier when offline during Phase 1
4. PSX cannot use timers
5. PSX Power-On state is always 'restore last settings' and this cannot be toggled off
6. All inputs wake up PSX from standby and you cannot limit it to less inputs

### Signal Processing

7. PSX amplifier's limiter behaves differently than PowerMatch or PowershareD, therefore custom limiter presets have been loaded in the Bose Professional Loudspeaker EQ preset files bank that come with CSD 5.12. They are different values than PowerMatch or PowerShareD amplifiers.

## ControlSpace Remote

1. When using ControlSpace Remote 2.10, if there is a PSX in the design - Groups, PSETS, PSET Lists and RC Groups are not displayed in Builder. Previously defined programming still works. ControlSpace Remote 3.0 will correct this issue.

## Minimum System Requirements

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

- Microsoft Windows 10 version 2004 or later
- 1 GHz processor (or better)
- 512 MB of available RAM (1 GB recommended)
- 512 MB of available disk space
- Minimum resolution of 1366x768 WXGA
- 1 available USB port
- 1 available Ethernet port, 100 Mbps minimum, (1 Gbps recommended)
- 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.

### Notes:

1. Microsoft Windows XP, 8, and 8.1 are no longer officially supported.