ClearOne®

RELEASE NOTES

CONVERGE® Pro/SR, CONNECT™ CobraNet®
CONNECT Dante™ and Beamforming Microphone Array Products

CLEARONE DOCUMENT 801-151-800-01-RN
(REVISION 2.7) August 7, 2015

CONVERGE CONSOLE 4.X.X.X RELEASE NOTES

August 2015

CONVERGE Installer, Console Software and Firmware Release, Beamforming Microphone Array Firmware Release, CONNECT CobraNet Firmware Release, CONNECT Dante Firmware Release

CONVERGE INSTALLER 4.8.11.0

CONVERGE CONSOLE 4.5.12.0

CONTROLLER BUILDER 4.0.2.1

CONVERGE PRO FIRMWARE 4.4.0.2

BEAMFORMING MICROPHONE ARRAY FIRMWARE 4.4.0.0

CONNECT COBRANET FIRMWARE 4.3.0.1

CONNECT DANTE FIRMWARE 4.4.1.2

Bug Fixes Included in this Release

CONVERGE PRO

- VH20: Proxy rollover not functioning
- VH20: Out of Band DTMF will not set unless DTMF Payload is set at the same time
- REFSEL Command is not working when 8i/TH20/VH20 unit is in a stack and executing this command.
- Filters being copied to all similar types and overwriting other filters
- Web builder is missing all channel arguments
- Java version upgrades related issues
- Pushing large site files with large macro recordings causes errors
- Sometimes saving a site file in Chinese OS computers will convert to a empty site file when reopened

Beamforming Microphone Array

- Beamforming Microphone Array units mute is not working and lost connection with connected CONVERGE unit
- In the Console software, the Site tab sometimes is not showing items in the correct order and is missing the Beamforming Microphone Array, CONNECT CobraNet, and CONNECT Dante network bridge units
- Beamforming Microphone Array LEDs is set to OFF when pushing site file
- Sometimes Console software v4.x is not pulling the LED state from Beamforming Microphone Array during firmware upgrade

Known Issues

- CobraNet macros have an up to two-second delay while loading before execution.
- CobraNet commands coming out firmware when idle.
- When connecting to system with Console, CobraNet and Beamforming Microphone Array will echo argument errors on the serial port or Telnet

System Requirements, Download and Installation

System Requirements:

- Microsoft® Windows XP, Vista, 7, 8 (32 bit or 64 Bit OS)
- Intel or AMD 600 MHz class processor (1 GHz or higher recommended)
- 1GB RAM minimum (or higher recommended)
- 300MB hard disk space minimum (Additional space is required to store the site files and other project files)
- USB or Ethernet network interface to connect your computer with CONVERGE Pro product
- Admin permission to install and run the software
- For the web pages, Java™ Runtime Environment version 6.0 or higher is needed

Download:

Download the **ConvergeConsole_4_8_11_0.zip** file containing the software from the ClearOne Website CONVERGE Pro Resource Library. (http://www.clearone.com/resources#professional_audio).

Installation:

> **IMPORTANT NOTES:**
>> **The CONVERGE Console Software update must be performed first, followed by the CONVERGE Firmware, then the firmware for the CONNECT network bridges and Beamforming Microphone Arrays (if present).**
>> Before installing the current version, make a back up, including site files, from the previous 4.X/3.X/2.X/1.X version software if it is already installed. The firmware upgrade will set the CONVERGE Pro/SR units to their factory defaults.
>> Before installing version 4.5.X, uninstall version 4.X. Versions 3.X and older do not need to be uninstalled.

1. After successfully downloading the CONVERGE Installer application from ClearOne website, double-click on it and follow the instructions provided.
2. After successful installation, you will see the CONVERGE MANAGER icon, CONVERGE CONSOLE icon, and CONTROLLER BUILDER icon presented for application shortcuts.
3. Using CONVERGE Console connect to the CONVERGE Pro Site.
4. During the connection the Firmware Uploader will be presented. (Only when upgrading from 3.X or earlier)
5. If the **converge.mdo** is not selected, use the **browse** button and select **converge.mdo** from the C:\Program Files (x86)\ClearOne\Converge\4\Firmware folder.
6. Click on the **Upload Firmware** button.   All CONVERGE Pro units in the site will upgrade. At the end of the upgrade process, the CONVERGE Pro units will reboot.
7. With CONVERGE Console, connect to the CONVERGE Pro site.
8. Using the **browse** button, select the **bf_mic.mdo** file the C:\Program Files (x86)\ClearOne\Converge\4\Firmware folder.
9. Click on the **Upload Firmware** button.   All Beamforming Microphone Array units in the site will upgrade. At the end of the upgrade process, the Beamforming Microphone Array and CONVERGE Pro units will reboot.
10. Using CONVERGE Console, connect to the CONVERGE Pro Site.
11. Using the **browse** button, select the **cobranet.mdo** or **connect_dante.mdo** file in the C:\Program Files (x86)\ClearOne\Converge\4\Firmware folder.
12. Click on the **Upload Firmware** button.   All CONNECT CobraNet or Dante units in the site will upgrade. At the end of the upgrade process, the CONNECT CobraNet or Dante units will reboot.
13. With CONVERGE Console, open the saved site file and push it to the site.

Last Release Details - July 2014

CONVERGE Installer, Console Software and Firmware Release, Beamforming Microphone Array Firmware Release, CONNECT CobraNet Firmware Release, CONNECT Dante Firmware Release

CONVERGE INSTALLER 4.5.8.0

CONVERGE CONSOLE 4.4.5.0

CONTROLLER BUILDER 4.0.2.1

CONVERGE PRO FIRMWARE 4.3.0.16

BEAMFORMING MICROPHONE ARRAY FIRMWARE 4.3.0.6

CONNECT COBRANET FIRMWARE 4.3.0.1

CONNECT DANTE FIRMWARE 4.3.1.4

New Product Included in this Release
- The CONNECT Dante network bridge is added to this release, interfacing Dante digital audio networks to the CONVERGE Pro/SR mixer through the E-bus.
- Added Digital Microphone Input Processing to CONVERGE Console allowing control of Digital microphones interfaced using the CONNECT Dante network bridge through the standard analog microphone mixer controls

New Features Included in this Release
- Added support for CONNECT Dante Network bridge product to work with all Converge Pro & SR products.
- Added support for beam direction reporting when in Wall Mode using the BFDIREN and BFDIR commands.
- Beamforming Microphone Array AEC improvements. BFREFGAIN command added.

Bug Fixes Included in this Release
- Redial memory not clearing.
- Various site conversion issues going from version 3 to version 4.
- Various site opening, saving, and pushing issues resolved.
- Preset labels not being saved under certain circumstances.
- AEC is now reset whenever the beamforming mode changes between table, wall, or ceiling.
- Cannot push a site file to a site with a BFM if VH20 is the Proxy.

Known Issues
- CobraNet macros have an up to two-second delay while loading before execution.
- CobraNet commands coming out firmware when idle.
- When connecting to system with Console, CobraNet and Beamforming Microphone Array will echo argument errors on the serial port or Telnet.

October 2013 Release Details

CONVERGE Installer, Console Software and Firmware 4.2.X.X Version Release, Beamforming Microphone Array Firmware 4.2.X Version Release, CONNECT CobraNet Firmware Version 4.1.X Release

CONVERGE INSTALLER 4.2.13.0

CONVERGE CONSOLE 4.2.4.0

CONTROLLER BUILDER 4.0.2.1

CONVERGE PRO FIRMWARE 4.2.0.18

BEAMFORMING MICROPHONE ARRAY FIRMWARE 4.2.0.0

CONNECT COBRANET FIRMWARE 4.1.0.7

New Features Included in this Release
- Added support for CONNECT CobraNet Network bridge product to work with all Converge Pro & SR products.
- Added ClearOne Ceiling Mic Array to Device database. (Added to Site via AV Devices tab in CONVERGE Console)
- Added ClearOne Wireless Mics to Object Database. (Added to Site via Objects tab in CONVERGE Console)

Bug Fixes Included in this Release

- Beamforming Microphone Array noise canceller is not persisting after a power cycle.
- Upgrading the firmware to multiple Beamforming Microphone Array units sometimes does not function properly.
- Audio sometimes is not passing through a Beamforming Microphone Array after a power cycle.
- Beamforming Microphone Array Matrix sometimes defaults after reset.
- Sometimes not able to see all the units through the expansion bus.
- USB Connection is not recognized after reset.
- Query for filter on Beamforming Microphone Array will reset gain.
- CONVERGE Pro VH20 DHCP and proxy rollover issues have been fixed.

Known Issues

- CobraNet macros have an up to two-second delay while loading before execution.
- CobraNet commands coming out firmware when idle.
- When connecting to system with Console, Cobranet and Beamforming Microphone Array will echo argument errors on the serial port or Telnet.

Product Documentation

Refer to the below links for more details about CONVERGE Pro and Beamforming Microphone Array products.
http://www.clearone.com/products_converge
http://www.clearone.com/products_beamforming_mic_array

June 2013 Release Details

CONVERGE Installer, Console Software and Firmware 4.1 Version Release, Beamforming Microphone Array Firmware 4.1 Version Release

CONVERGE INSTALLER: 4.1.8.0

CONVERGE CONSOLE: 4.1.6.0

CONTROLLER BUILDER: 4.0.2.1

CONVERGE PRO FIRMWARE: 4.1.0.9

BEAMFORMING MICROPHONE ARRAY FIRMWARE 4.1.0.5

New Features in this Release

- The Beamforming Microphone Array supports Table mode and Wall mode in addition to the already supported Ceiling mode.
- The CONVERGE Console Software now supports an option to choose the mode (Ceiling, Wall, Table) for Beamforming Microphone Array.

Bug Fixes Included in this Release

- An issue has been fixed where if the Control Master is enabled and Macro is ran, the Control Master would reboot.
- An issue has been fixed when using SMTP, the MAIL FQDN does not resolve to an IP address.
- BFMODE command, use to select Ceiling, Table, and Wall modes on the Beamforming Microphone Array, is now supported in macros.

Known Issues

CONVERGE Pro:

- VH20 will decline a DHCP offer for an address already assigned to it.
- VH20 proxy rollover not functioning.
- The SIP extension is being saved with a preset.
- Unreachable IP address in SMTP settings causes IP port of the CONVERGE Pro to be unreachable.
- Web Pages do not work in IE9 natively. Must use compatibility mode.

Beamforming Microphone Array:

- The Device log of the first CONVERGE Pro unit will log Beamforming Microphone Array gain changes.
- Console must be connected to the first unit in the site to get Audio Presence, Audio Clip, and Gating indication from the Beamforming Microphone Array(s)

- GREPORT, GATE, and LVLREPORT commands do not work on the Beamforming Microphone Array.
- An error occurs in Console and the firmware upgrade for the Beamforming Microphone Array where the upgrade fails when 4 or more Beamforming Microphone Arrays are being upgraded at the same time.

Product Documentation

Refer to the below links for more details about CONVERGE Pro and Beamforming Microphone Array products.
http://www.clearone.com/products_converge
http://www.clearone.com/products_beamforming_mic_array

March 2013 Release Details

CONVERGE Installer, Console Software and Firmware 4.0 Version Release

CONVERGE INSTALLER: 4.0.26.0

CONVERGE CONSOLE: 4.0.30.1

CONTROLLER BUILDER: 4.0.2.1

CONVERGE FIRMWARE: 4.0.0.24

This document contains the release notes for new CONVERGE Installer, Manager, Console Software and Firmware. This latest 4.0 version is needed to support the Beamforming Microphone Array product. The following sections describe the release in detail and also provide other required information.

New Products Added in the 4.0.X.X Release

Beamforming Microphone Array:

The Beamforming Microphone Array is the Pro-Audio industry's first professional-grade microphone array with beamforming and adaptive steering technology, and ClearOne's next-generation Acoustic Echo Cancellation. The ultra-sleek design fits into any conferencing environment and delivers the clearest audio pickup available with adaptive acoustic processing. It works with CONVERGE Pro 840T, 880, 880T, 880TA, connected through the Expansion bus Link In/Link Out ports and powered through PoE. For more information about this product, see the ClearOne website.

New Features Added in the 4.0.X.X Release

- Added Mac Address to the Network menu on the LCD of the CONVERGE Pro units
- Added a new Site View that shows the complete site in one view.
- Added a Group View that allows configuration of all channel in a group from one screen.
- G.729 Annex B has been disabled. Calls are still able to use G.729 and G.729 Annex A. However, call setups are now configured so that the annexb=no flag is set in all INVITE and 200 OK response messages.
- Changes required for interoperability with Huawei SIP based IP PBX

Bug Fixes Included in the 4.0.X.X Release

- An issue where the Ebus reference channels were being saved in the site file as Output 1 has been fixed.
- An issue where the AGC can "hang" at maximum gain has been fixed.
- An issue where the MCRAMP command in the Macro changes its value displayed a value that is 65536 minus the original rate set has been fixed.
- An issue where the PAENERGY command in a Macro caused an error when the Macro is saved has been fixed.
- Fixed the Offline emulation of Macro with a MUTE toggle command.
- Fixed an issue where the RS-232 port stops responding to serial commands has been fixed.
- An issue where the XLOCALNUM command does not send response across G-link to an RS232 port has been fixed.
- Fixed an issue with Console where Console does not see USB on Windows 7 64 Bit OS has been fixed.
- Fixed an issue where the gain value after a Ramp stop is not stored on a reboot of the CONVERGE Pro.
- Fixed and issue with Console were VAD was not being enable in the VH20.
- Add the Cisco Proxy option to the SIP properties screen for the VH20.
- An issue where the VLAN setting on a VH20 is not being stored with the site file has been fixed.
- An issue where dial tone is not being produced from a VH20 with Cisco Call Manager has been fixed.
- Fixed issue with the 880TA and SR1212A when in 70V operation mode has been fixed.

Known Issues in the 4.0.X.X Release

CONVERGE Pro Units:

- VH20 will decline a DHCP offer for an address already assigned to it.
- VH20 proxy rollover not functioning.
- The SIP extension is being saved with a preset.
- Unreachable IP address in SMTP settings causes IP port of the CONVERGE Pro to be unreachable.
- Web Pages do not work in IE9 natively. Must use compatibility mode.

Beamforming Microphone Array:

- The Device log of the first CONVERGE Pro unit will log Beamforming Microphone Array gain changes.
- BFMODE command is available in Macro and Control builders. This command is for future use. Currently this command does nothing.
- Console must be connected to the first unit in the site to get Audio Presence, Audio Clip, and Gating indication from the Beamforming Microphone Array(s)
- GREPORT, GATE, and LVLREPORT commands do not work on the Beamforming Microphone Array.
- An error occurs in Console and the firmware upgrade for the Beamforming Microphone Array fails when upgrade 4 or more Beamforming Microphone Arrays at the same time.

CONVERGE Console:

- Unit View in Console does not auto scale to size of window.
- Error occurs when creating a site in Italian Win 7 32-bit and XP SP3. The file is not saved.
- Error occurs when saving a site file in Korean XP SP3 . The file is not saved.
- When using SMTP, the MAIL FQDN does not resolved to an IP address.

Products Supported with this Release

All CONVERGE Pro (840T, 880, 880T, 880TA, 8i, TH20, VH20), CONVERGE SR (SR1212, SR1212A), Beamforming Microphone Array.