



# Tesira release notes

This article provides details of Tesira Software and Firmware revisions as well as Biamp Canvas revision notes.

## Tesira

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### 4.2.2

**Released March 2022**

**Software Download Link:**

- [Download Tesira Software v4.2.2](#)
- [Download Biamp Canvas Software v4.2.2](#)

**Updates:**

- Added support for updated components in TesiraFORTÉ AVB processors. All TesiraFORTÉ AVB processors marked Rev. B must use Tesira firmware 4.2.2 or later. Support for pre-existing processors is maintained in this firmware version.
- Added Product Revision field to Device Information window in Device Maintenance. It will display the TesiraFORTÉ AVB revision level.
- Added support for AVB Input and AVB Output blocks to TesiraFORTÉ X models for connecting AVB 1722.1 streams.

**Resolved Software Issues:**

- Resolved issue causing Tesira software to crash when loading layouts that contained a TEC-1 block and were created before version 4.1.2.

**Resolved Firmware Issues:**

- Resolved issue where a FORTE X VoIP port configured for VLAN tagging could lose its preferred VoIP gateway after 10-15 minutes and lose its DHCP address after 24-48 hours.
- Resolved issue where a FORTE X would briefly allow traffic across all ports during boot.
- Resolved errant MAC addresses presenting on the incorrect ports on FORTE X.
- Resolved multiple 802.1X authentication issues on FORTE X.

## 4.2.1

**Released February 2022**

### **Resolved Firmware Issues:**

- Added support for updated chip components in Parlé Mics. All mics marked Rev B must use Tesira firmware 4.2.1 or later. Support for pre-existing mics is maintained in this firmware version.
- Improved USB audio stability on FORTE X.
- Resolved USB audio clicks on EX-UBT in 8x8 multi-channel mode.

## 4.2

**Released December 2021**

### **Software Download Link:**

- [Download Tesira Software v4.2](#)
- [Download Canvas Software v4.2](#)

### **New Features:**

- Added support for the following NPX Paging Station products and their associated software blocks:
  - NPX G1040
  - NPX G1100
  - NPX H1040
  - NPX H1100
- Added the capability to assign Control, VoIP, and Media traffic to specific ports on TesiraFORTE X series processors.
- Provided the option to configuration VoIP parameters remotely via TFTP on TesiraFORTE X series processors.
- Launch 2.0
  - Provided an audible Pre and Post Launch grade at the end of the sequence
  - Added test tones from Parle ceiling microphones to aid in the Launch process
  - Included new LED behavior that indicates when Launch is running and highlights the active mic under test.
  - Added support for Cisco Webex Room Kit device connections by including analog inputs/outputs in a Launched system configuration
  - Added support for HD-1 devices with non-default device IDs
  - Limited discovery of HD-1 devices to media ports only
  - Add support for custom speaker tuning target profiles so users can create unique room audio profiles
  - Added support to toggle Parle microphone LED behavior between always on and on only when a call is active
  - Enhanced the troubleshooting page on the device web interface to show more comprehensive Launch related events

- Modified device web interface to provide more useful adjustment range to audio signals
- Updated the Launch Report Card to include the UC vendor selection
- Added an Advanced Report Card that provides more detailed room measurement plots and resulting settings

#### **Updates:**

- Improved [Tesira expander proxying limits](#) across all devices.
  - TesiraFORTE now supports proxying up to 32 expanders of any type.
  - TesiraFORTE X, Tesira SERVER, and SERVER-IO now support proxying up to 64 expanders of any type.
  - TesiraCONNECT TC-5D, TesiraLUX, Tesira XEL and Tesira AMP server-class devices are now able to proxy expanders of any type and support proxying up to 64 devices.
- Created a device type selection in USB, Bluetooth, and VoIP block creation dialogs to help a user clarify which feature sets are supported.
- Added Windows 11 compatibility to the Biamp USB Audio driver.
- Resolved a Biamp USB Audio driver issue which corrupted audio in high channel counts.
- Improved the responsiveness of certain button, knob, and other operations in the TEC-X.
- Fixed a problem in the TEC-X that prevented AV level input and output controls from working as expected (now matches auxMute functionality).

#### **Resolved Software Issues:**

- Resolved issue that prevents the device IO for a Control Voltage block to be assigned when a block was fixed in the unit.
- Resolved issue when a Parle Processing block channel count was changed after placement connecting lines would not draw in the expanded view.
- Resolved issues in a couple of menus or windows not being themed correctly.
- Resolved issue when copying DSP data from one block to multiple blocks; only the highlighted block would get the pasted DSP data. Now all selected blocks will get the DSP data.
- Resolved issue where Host Table button is correctly disabled when selecting a Tesira Connect but not reenabled when selecting another device that supports Host Tables.
- Resolved issue where custom settings in Parle Processing block were not propagated to newly added channels when channels were added after the block placement.
- Resolved issue where Device List export does export correctly with non-US regional settings.
- Improved compiler error when Split Pass-Through block has been misconfigured or lost its corresponding input/output.
- Resolved issue of Presets being lost or corrupted when updating to Tesira 4.0 or newer.
- Fixed rare Tesira Software crash when filtering devices in equipment table.
- Fixed rare Tesira Software crash when removing devices from the equipment table that had fixed allocated blocks assigned to the device.
- Resolved issue where a Transfer Function block would not open when connected to a Parle Processing block that had modified DSP parameters.
- Resolved issue that allowed connecting a Parle Mic block to multiple AEC inputs on a single AEC block.
- Resolved issue that could cause Logic blocks to not assert the proper state when spread across multiple devices.

- Resolved issue that resulted in the DSP Resources chart for TesiraFORTE X Series Processor displaying an incorrect visual representation of the usage.
- Resolved issue that caused a reboot of a TesiraFORTE X Series Processor from the Tesira SW to report as failed.
- Resolved issue that caused layout files to always show as changed when they contained a Parle Processing Block.

#### **Resolved Firmware Issues:**

- Resolved issue when a system with a TesiraFORTE X Series Processor was configured to use Dante as media clock master would result in AVB Stream Inactive Faults.
- Resolved issue where Tesira XEL amplifiers would report “Device network connections not connected correctly for daisy chain mode” when only one port was connected.
- Resolved issue of firmware update failing on Protected Systems with 3.14 and older to 4.0 and newer.
- Resolved issue when Microsoft Teams Room app will hang when using Crestron UC-CX100-T and an EX-UBT when transitioning between BYOD laptop and UC Engine.
- Resolved issue causing loud on-hold music for TesiraFORTE X series processor.
- Resolved issue that could cause the incorrect number of microphones to be metered on the TesiraFORTE X Series Processor website.
- Resolved issue that could cause faults to be erroneously reported from devices connected to a TesiraCONNECT when a firmware update was being applied.
- Resolved issue that could allow an unsupported SIP Registration Expiration Boundary to be set on the TesiraFORTE X Series Processor website.
- Resolved issue that could prevent Launch on the TesiraFORTE X series processor from completing successfully in systems with a Parle microphone only unit that has a lower serial number than the amplifiers present in the system.
- Resolved issue that could prevent Launch on the TesiraFORTE X series processor from starting when connecting a different type of Parle microphone on an already Launched system.
- Resolved issue that could cause Launch to fail under rare scenarios.
- Improved support for additional time zones.
- Resolved issue that could cause Launch to fail to detect all connected speakers under rare scenarios.
- Resolved issue that prevented the DNS Domain Name field from being cleared after being set on the TesiraFORTE X series processor website.
- Improved the busy tone for VoIP on the TesiraFORTE X series processor.
- Resolved issue that caused the calendar for the Event Scheduler on the TesiraFORTE X series processor website to snap back to midnight after a new event was added.
- Resolved an issue that caused new Events created using the Event Scheduler on the TesiraFORTE X series processor website to have an incorrect default time.
- Resolved an issue that could cause VoIP call audio to be improperly routed on the TesiraFORTE X series processor.
- Resolve an issue that caused TesiraFORTE X series processor devices to go inconsistent when the Media Clocking Configuration was configured with a Dante Clock Master.
- Resolved an issue that prevented User Logs retrieved via the TesiraFORTE X series processor website from being reported in the log.
- Resolved an issue that could cause Network Settings applied on the TesiraFORTE X series processor website from being correctly applied. Resolve issue that could cause audio artifacts in the VoIP On Hold music for the TesiraFORTE X series processor.

- Resolved an issue that prevented the Automatic Daylight Savings Time adjustment from being configured on the TesiraFORTE X series processor website.
- Resolved an issue that could cause 'Connection timed out' when logging into the TesiraFORTE X series processor website after a firmware update.
- Resolved an issue that could cause the audio controls on the TesiraFORTE X series processor website to disappear while the start of Launch was waiting to be confirmed.
- Resolved an issue that could cause the VoIP system in a TesiraFORTE X series processor to be started despite not being configured in the Tesira design file.
- Resolved an issue that prevented the user from specifying the UC Vendor before Launch had been run on the TesiraFORTE X series processor.
- Resolved an issue that could cause the Parle Microphone Demo button on the TesiraFORTE X series processor website to become out of sync with the microphone state.
- Resolved an issue that prevented HD-1 devices from appearing in the Launch Report Card.
- Resolved an issue that could cause the USB controls to disappear from the TesiraFORTE X series processor website when a Launch system was extended by adding a second EX-UBT.
- Resolved an issue that allowed the Hostname for a system to be changed after Launch on the TesiraFORTE X series processor.
- Resolved an issue that could cause the TesiraFORTE X series website's Locate state to be out of sync with the expander device.
- Resolved an issue that could cause 802.1x credentials from remaining in the configuration even after 802.1X was disabled using the TesiraFORTE X series processor website.
- Resolved issue that limited the useful range of the Bluetooth level control on the TesiraFORTE X series processor website.
- Resolved an issue that could cause the network settings to incorrectly be reported as having changed on the TesiraFORTE X series processor website.
- Resolved an issue that could in rare scenarios cause the Audio controls to disappear after running a Launch from the TesiraFORTE X series processor website.
- Resolved an issue that could cause prevent DHCP from being enabled after an invalid static IP address was entered in the network settings page on the TesiraFORTE X series processor website.
- Resolved an issue that could cause the TesiraFORTE X series processor website to become unresponsive.
- Resolved issue that prevented user confirmation being required to clear the User Logs on the TesiraFORTE X website.
- Resolved issue that could degrade TesiraFORTE X website performance immediately after running Biamp Launch.
- Resolved issue that prevented DMTF decode from working on VoIP running on FORTE X.
- Resolved issue that prevented the correct certificate name being shown for security certificates used in the VoIP Configuration on the FORTE X website.
- Resolved issue that prevented a VoIP Custom Ringer from appearing immediately after being uploaded on the TesiraFORTE X website.
- Resolved issue that prevented the user from being prompted to save changes when navigating to a new section of the TesiraFORTE X website.
- Resolved issue that prevented the user from being required to wait for changes to network settings being applied on the TesiraFORTE X website.
- Resolved issue that prevented consultative VoIP transfers from occurring on TesiraFORTE X.

**Known Issues:**

- Paging systems configured for Dante can be assigned to server-class device that does not have a Dante media interface.
- Paging stations may not receive assigned pages and cycle proxy host errors in some multi-server layouts where the paging station and paging control blocks are assigned to different host unit ID numbers.

## 4.1.2

**Released September 2021**

**Software Download Link:**

- [Download Tesira Software v4.1.2](#)
- [Download Canvas Software v4.1](#)

**Updates:**

- Improved performance and responsiveness of TEC-X button presses and rotary controls
- Multiple Tesira general performance improvements and optimizations, including better performance when working with layouts and changing device protection state
- Added new TesiraFORTE X firmware file to simplify the web-based update process. When updating via the device web page, use the “TesiraXFirmwareWebVersion\_v4.1.2.9.tfa” file
- Updated the Tesira multi-channel USB Audio Driver for Windows
- Added Desono EX-S6 loudspeakers to the Processing Library

**Resolved Software Issues:**

- Resolved an issue with TEC-X configuration file if the Windows regional format settings for localization used a comma character as a numeric value decimal separator.
  - **NOTE:** Users will need to manually update existing TEC-X configuration files and verify correct values if the Windows localization setting uses a comma for decimal separators
- Resolved an issue where logic Flip Flop blocks would not receive a device assignment when compiling

**Resolved Firmware Issues:**

- Resolved issue where level bar on TEC-X would not update if button was held
- Resolved issue where analog audio embedded into a TesiraLUX OH-1 HDMI output would not function
- Resolved issue where Port 1 on TesiraCONNECT TC-5D would disable media filter settings on reboot. Settings on Port 1 are now preserved across reboots
- Resolved issue of TesiraCONNECT and Forte X blocking AVB MAAP packets when IGMP is enabled
- Resolved issue of TesiraCONNECT not renegotiating gPTP when an upstream switch was rebooted
- Resolved issue of TesiraFORTE X becoming undiscoverable in certain situations and requiring a reboot to be discoverable again
- Resolved issue when TesiraFORTE X could not complete Launch setup with 8 mics and 8 speakers

## 4.1.1

**Released August 2021**

**Updates:**

- Firmware enhancements to support manufacturing due to global chip shortage.

## 4.1

**Released May 2021**

**Software Download Link:**

- [Download Tesira Software v4.1](#)
- [Download Canvas Software v4.1](#)

**New Features:**

- Added support for TEC-X control pads (TEC-X 1000 and TEC-X 2000)

**Updates:**

- Improved the stability of the Tesira EX-UBT during USB host resets.

## 4.0.3

**Released May 2021, Firmware-only release, aligned with software release 4.0**

**Updates:**

- Enabled 16-bit USB audio capability to the EX-UBT, Devio SCX series, and Forté X series. These devices now support both 16- and 24-bit modes automatically.

**Resolved Firmware Issues:**

- Resolved an issue in which an EX-UBT could lose connectivity or audio transmission when the host PC reboots.
- Resolved a condition that could cause a Tesira VoIP interface to crash or report that it has lost registration.
- Fixed an erroneous AVB stream inactive fault condition that appeared even though the AVB stream was functional.
- Fixed an issue in the TesiraLUX that could cause the transmission issues in busy networks when operating in single-cable mode.
- Resolved a problem in which an upgrade to 4.X firmware could clear the SSH authentication credentials in a protected system.
- Fixed a problem in which meters would 'freeze' at their initial values in Tesira software.

- Fixed an issue in which a PC running an AVB 1722.1 controller was unable to discover or control 1722.1 devices through a TC-5 or TC-5D.
- Fixed a problem where the Forté X Launch would fail with certain combinations of attached devices.
- Solved a UC mute-sync issue on the Forté X and Devio SCX.

## 4.0.2

**Released March 2021, Firmware-only release, aligned with software release 4.0**

### **Resolved Firmware Issues:**

- Resolved manufacturing issue for TC-5D

## 4.0.1

**Released March 2021, Firmware-only release, aligned with software release 4.0**

### **Resolved Firmware Issues:**

- Resolved minor issue to speed up manufacturing and test

## 4.0

**Released March 2021**

### **Software Download Link:**

- Download Tesira Software v4.0
- [Download Canvas Software v4.0](#)

### **New Features:**

- Support release for the following new products and their associated software blocks:
  - TesiraFORTÉ X 400
  - TesiraFORTÉ X 800
  - TesiraFORTÉ X 1600

### **Updates:**

- Added TTP commands to query media traffic status and query/set POE settings on TesiraCONNECT devices.
- Added TTP commands to query/retrieve the Dante status on the TesiraCONNECT TC-5D
- Added the ability to filter Dante stream advertisement traffic from Port 1 of the TesiraCONNECT TC-5D via a software checkbox.



- Added the ability to assign meters to TesiraCONNECT TC-5D devices.
- Added option to ignore unsolicited ARP requests in VoIP card configuration.
- Improved Event Logging to use block instance tags in user log.

#### **Resolved Software Issues:**

- Disabled the ability to modify the TesiraCONNECT TC-5D IP address through the Dante Settings tab.

#### **Resolved Firmware Issues:**

- Resolved an issue that could cause a device to become unresponsive after making changes to a VoIP config.
- Resolved an error where the device clock gets reset after a reboot.
- Resolved situation where a TC-5D would report “Dante card in slot 2 has all links down” or where a TC-5D re-boot could generate a Slot 2 fault.
- Resolved issue that prevented certain expanders (TCM-1, EX-UBT, POE Amps.) from being discovered by TC-5/TC-5D
- Resolved an issue where a TC-5D could present as a TC-5
- Resolved issue in which a TC-5D has discovery problems with IGMP settings disabled
- Corrected the MAC address reported by the TC-5/TC-5D
- Solved a problem where TC-5D Dante connection status faults would not resolve when the configuration was cleared
- Fixed problem where TC-5D RSTP would not enable on re-boot when the option was enabled
- Resolved problem where setting the Dante IP address could lead to a TC-5D becoming unresponsive
- Solved a problem that when a specified NTP server was unavailable, the Firmware NTP function would fail to start
- Fixed a firmware problem that resulted in Tesira Control Tunneling not working

## **3.17**

#### **Released October 2020**

#### **Software Download Link:**

- [Download Tesira Software v3.17](#)
- [Download Canvas Software v3.17](#)

#### **New Features:**

- Added the 3.16 TesiraFORTE AEC enhancements to the TesiraSERVER and TesiraSERVER I/O products. This addition improves the performance of Parle microphones in large systems using certified and tested UC platforms like Microsoft Teams, Google Meet, and Zoom.
- Introduced the optional ability to present the capacitive touch buttons on Parle TTM-X mics as logic nodes in Tesira software.
- Improved the workflow in large designs by adding the ability to sort, filter, and export the items in the Equipment Table.

- Added sorting and filtering capabilities to the enhanced Network Command String Block.

#### **Updates:**

- Added the ability to include an AEC Input block when adding an AEC enabled Parle Processing Block. This enhancement allows the use of analog inputs while applying AEC to Parle mics.
- Expanded user feedback when the Event Scheduler encounters an error.
- Modified the HID volume tracking in the EX-UBT from a host computer to provide a smoother transition across the level range.

#### **Resolved Software Issues:**

- Corrected the tab order on Dante inactive flow faults.
- Resolved a broken link to the Tesira release notes in the help file.

#### **Resolved Firmware Issues:**

- Removed the ability to modify the USB name using presets to prevent connection issues with a host computer.
- Resolved an issue with TesiraCONNECTs not discovering certain Tesira Expanders.
- Resolved an issue in which the polarity of audio from an AMP-450BP or TCM-XA was being inverted.
- Resolved an issue in which the loading time of the Event Scheduler pages could be very long.

## **3.16.1**

### **Released August 2020**

#### **Software Download Link:**

- [Download Tesira Software v3.16.1](#)
- [Download Canvas Software v3.16](#)

#### **Updates:**

- Disabled unused telnet and FTP ports on DAN-1 cards and FORTE DANs.
- Renewed the security certificate used by the Event Scheduler website.

#### **Resolved Software Issues:**

- Resolved an issue in which changing the Parle Processing Block channel count resulted in inconsistent acoustic mode selection.
- Streamlined “undo” functions in the Parle Processing Block’s Control Dialog.
- Fixed an issue where recalling a preset of a Parle Processing block would inadvertently show Custom in the AEC settings.
- Stabilized the Room Acoustics setting in a Parle Processing block when the AEC meters were open.

#### **Resolved Firmware Issues:**

- Resolved a situation in which Dante audio was distorted in the TesiraCONNECT TC-5D.
- Fixed an issue of the EX-UBT not passing audio after a PC reboot in multichannel mode.

## 3.16

**Released July 2020**

**Software Download Link:**

- [Download Tesira Software v3.16.0](#)
- [Download Canvas Software 3.16](#)

**New Features:**

- Added support for TesiraCONNECT TC-5D room connection device. This device gives users even more options to bridge Dante flows in and out of Biamp systems.
- Updated all TesiraFORTÉ DAN models and DAN-1 card for TesiraSERVER/SERVER-IO to Dante firmware version 4.2.0.28.
- Added enhancements to the Parlé Processing Block to easily allow the deployment of certified and tested audio settings for specific UC platforms. Supported UC platforms include; Microsoft Teams, Google Meet, and Zoom.

**Updates:**

- Device failover redundancy for TesiraSERVER devices has been removed. Systems utilizing this feature must maintain firmware version 3.15 or older. Media network redundancy is still supported.

**Resolved Software Issues:**

- Fixed issue where configuration dialog window for Dante blocks may appear on the wrong display when using multiple monitors.
- Fixed issue where knee softness for advanced compressors may not be displayed correctly when opening a file, recalling a preset, or connecting to a system.
- Fixed issue where Parlé Processing Block could revert to custom setting after a compilation.

**Resolved Firmware Issues:**

- Improved noise floor stability for Parlé mics being used with AEC.
- Resolved an issue that could result in local conference audio being lost.

## 3.15

**Released May 2020**

**Software Download Link:**

- [Download Tesira Software v3.15.0](#)

- [Download Canvas Software v 3.15](#)

#### **New Features:**

- Added ability to schedule events for recalling presets with Event Scheduler block and web calendar interface.
- Added a feature to allow configuration of Tesira VoIP via TFTP.
- Added ability to suppress inactive flow faults for Dante Input, Output, and microphone blocks.

#### **Updates:**

- Improved Command String block with new response pattern matching and logic outputs for TCP and UDP.
- Improved open circuit and low impedance conditions in TesiraXEL amplifiers.
- Improved Non-Linear Processing (NLP) in TesiraSERVER/SERVER-IO and TesiraFORTÉ AEC processing.
- Improved Parl  mic beamtracking performance.
- Improved Parl  mic interaction with AEC in TesiraFORT .

#### **Resolved Software Issues:**

- Fixed issue where saving Parl  Processing Block settings multiple times could cause Tesira software to crash.
- Fixed issue where DSP Resource Usage could report excessively high usage measurement when Parl  mic blocks are present in configuration file.

#### **Resolved Firmware Issues:**

- Fixed compatibility issue between EX-UBT and Zoom on Macs.

## **3.14.2**

**Released February 2020. Firmware-only release, aligned with software release 3.14.1**

#### **Resolved Firmware Issues:**

- Resolved an issue that could cause layouts to fail a version upgrade if they were created before Tesira 3.10 and included a TCM-1 or TCM-1A block.
- Improved the mechanism that the EX-UBT uses to enumerate USB to a host computer.

## **3.14.1**

**Released January 2020**

#### **Software Download Link:**

- [Download Tesira Software v3.14.1](#)
- [Download Canvas Software v3.14.1](#)

## New Features:

- The TCM-X, TCM-XA and TTM-X now provide access to the audio for each microphone beam output
- Added new Parl  Processing block that simplifies the setup and commissioning of Parl  microphones
- Added ability to apply microphone beam tracking limits for TCM-X, TCM-XA and TTM-X microphones
- Added Beamtracking Setup modes for TCM-X, TCM-XA and TTM-X microphones to indicate tracking limits and beam tracking
- Added feature to [specify USB device name of EX-UBT](#)
- Tesira Server DSP hardware now supports two DAN-1 cards

## Updates:

- Added feature to change labels on compressor blocks meters
- Added VoIP support for multiple p-asserted-headers

## Resolved Software Issues:

- Fixed issue preventing Canvas from installing on 32bit Windows
- Fixed issue where disabling device discovery for a specific device was ignored and device discovery was still attempted.

## Resolved Firmware Issues:

- Fixed issue that could cause TesiraCONNECTs and XEL amplifiers to stop passing AVB after a month of continuous operation.
- Fixed issue where LUX OH-1 units could result in internal software error when sending layout with large number of LUX units.
- Fixed issue with NTP service not restarting when a change was made to NTP settings.
- Fixed issue with NTP not being obtained from DHCP servers
- Fixed issue in large LUX systems, using HDCP, displaying a green screen indicating a HDCP authentication error had occurred.
- Fixed issue on systems with Network Command String blocks rebooting when multiple TCP streams disconnected at the same time.
- Fixed issue when using an EX-UBT as a source for a computer could result in audio artifacts on the computer.
- Fixed issue where a PoE Amp (TCM-1A, AMP-450P, TCM-XA, etc.) would set an incorrect gain structure after a short circuit is detected on the output and then cleared.
- Fixed issue where VoIP audio gets corrupted when an instant message request is received from Skype For Business.
- Fixed VoIP issue that could cause trouble working with Fuze Cloud.
- Fixed issue where Tesira Server class devices could issue a DHCP request with option 61 instead of option 60,
- Fixed issue where logic simulation did not work on TCM-XA/TCM-1A
- Fixed issue where VoIP may crash when required presence info is missed with Lync/Skype For Business.
- Fixed issue where VoIP MAC address isn't reported when VoIP is configured but port is unplugged.
- Fixed issue where VoIP local conference audio is corrupted if participants use different codecs.

- Fixed issue where VoIP local conference audio is corrupted if VoIP is conferenced with an invalid number.
- Fixed issue where VoIP audio is corrupted when there is a call waiting call.
- Fixed issue with Mute Logic does not output when toggled within a Preset.
- Fixed issue where unsolicited ARPs impact the VoIP ARP table.
- Fixed issue updating to 3.14.0 with Parlé mics

## 3.13.1

**Released December 2019. Firmware-only release, aligned with software release 3.13**

### **Resolved Firmware Issues:**

- Fixed issue that could cause TesiraCONNECT devices to stop passing AVB after a month of continuous operation.
- Fixed issue that could cause XEL amplifiers to stop passing AVB after a month of continuous operation.

## 3.13

**Released September 2019**

### **Software Download Link:**

- [Download Tesira Software v3.13](#)
- [Download Canvas Software v3.13](#)

### **New Features:**

- Tesira software can now easily set all AEC channel parameters within an AEC block.
- Introducing Tesira Online Help to get up-to-date help information.
- Tesira Software “Discovery Device List” is now preserved across software updates.
- Tesira Software “Discovery Device List” can now import/export and enable/disable devices in the list so integrators supporting multiple installs can choose different list for each install.
- Added Processing Library Catalog for Desono loudspeakers.
- Added VoIP support for [Location-Based Routing](#).

### **Updates:**

- Added logic input to logic selector and feedback support to support controllers like HD-1 and TEC-1.
- Added Logic output to the mute block.
- Updated Processing Library for Community loudspeakers

### **Resolved Software Issues:**

- Fixed issue with device discovery error dialog box not selecting the “OK” button by default.

**Resolved Firmware Issues:**

- Fixed issue that could cause a SVC-2 VoIP card to fail firmware update.
- Fixed issue on TesiraXEL Amplifiers that would cause AVB not to pass on the 2nd port if RSTP is disabled.

## 3.12

**Released August 2019**

**Software Download Link:**

- [Download Tesira Software v3.12](#)
- [Download Canvas Software v3.12](#)

**New Features:**

- Added support for TesiraCONNECT
- Added VoIP support for RFC 5939 for new SRTP negotiation
- Added VoIP support for multiple pool dial-in conferencing
- Added support for redundant links in TesiraXEL amplifiers using RSTP
- Added Processing Library Catalog named Biamp TesiraXEL Blocks
- Added Processing Library Catalog named Community Professional Loudspeakers

**Updates:**

- Updated Tesira software to use Microsoft .NET 4.8. (This may require a reboot on install.)
- Updated FIR Filter block to have a FIR filter management dialog.
- Improved firmware update process.
- Improved sleeping device notification to make it clearer when a device is sleeping or missing from the network.

**Resolved Software Issues:**

- Added warning message about audio stoppage when performing locate on TesiraXEL amplifiers.
- Improved fault messaging from TesiraXEL amplifiers
- Fixed fault detection when a channel's power is set below 10W for TesiraXEL

**Resolved Firmware Issues:**

- Fixed issue where Factory Reset was not clearing protection.
- Fixed issue where a TesiraXEL amplifier could report inconsistent state when going to sleep.
- Fixed issue with TesiraXEL amplifiers losing AVB when connected to large AVB networks.
- Fixed issue where TesiraXEL amplifier could produce corrupted audio.

- Fixed issue where TesiraXEL amplifiers could report toggling of reported impedance faults at certain output levels when no real fault existed.
- Fixed issue where TesiraXEL amplifier would cancel locate mode if a layout was sent to the unit.
- Fixed issue that could cause a TesiraXEL amplifier to disconnect from a network.
- Fixed issue if TesiraXEL amplifier had power limiter set greater than 9dB causing excessive limiting.
- Fixed issues where a collection of daisy chained TesiraXEL amplifiers would lose connection to a switch.
- Fixed an issue where one-way audio happens when Mitel does a consultative call transfer.
- Fixed an issue where Tesira VoIP resets itself in DHCP mode when its network port isn't connected.
- Fixed an issue where connecting an EX-UBT to a PC could cause an "Internal Buffer Overflow".

### Known Issues:

- There is a known issue affecting the default Daisy Chain connection mode for TesiraXEL amplifiers running this version of firmware. RSTP must be enabled in order for the TesiraXEL amplifier to allow AVB to pass via Port 2. This setting can be enabled under **Device Maintenance > Network Settings > Port Mode tab**.

## 3.11.1

**Released July 2019**

### Software Download Link:

- [Download Tesira Software v3.11.1](#)
- [Download Canvas Software v3.11](#)

### Resolved Firmware Issues:

- Adjusted the LED brightness for Tesira Parle TCM-X, TCM-XA, and TTM-X microphones.
- Fixed an issue with the current sensing transformers for Tesira XEL 1200 amplifiers.
- Simplified the USB descriptor for the Tesira EX-UBT for better interoperability with soft codecs.

### Resolved Software Issues:

- Fixed installation error that can occur if default Windows language is set to Chinese, Japanese, or Korean languages.

## 3.11

**Released June 2019**

### Software Download Link:

- [Download Tesira Software v3.11](#)



- [Download Canvas Software v 3.11](#)

## **New Features:**

- Added support for Parlé-series microphones (TCM-X, TCM-XA, and TTM-X).
- Added support for AMP-450BP.
- Added the following new logic blocks: Logic Pulse, Logic Sequence, and Logic Selector. More details available [here](#).
- Added support for Tesira devices to participate in Dante Domain Manager (DDM). More details available [here](#).

## **Updates:**

- Upgraded TCM-1 block to "Parlé Microphone" block, which supports all Parlé-series microphone models.
- Upgraded AMP-450P block to "Tesira PoE AMP" block, which supports both AMP-450P and AMP-450BP amplifier models.
- Added two new video format options for manual EDID override: 1920x1080p144 and 2560x1440p144.

## **Resolved Software Issues:**

- Fixed known issue with undo/redo commands for TesiraXEL amplifiers that was present in Tesira release v3.10.
- Fixed issue where having no text on the last port label of AV Input or AV Output blocks could prevent copy-paste functions and corrupt the file when saving.
- Fixed issue that could occasionally cause incorrect coordinates to be displayed in the tooltip when mousing over large AV Router block crosspoints.
- Fixed issue that could occasionally cause the incorrect column to be highlighted when mousing over large AV Router block crosspoints.
- Fixed issue causing scroll wheel to stop working after selecting a checkbox in a dialog.

## **Resolved Firmware Issues:**

- TesiraXEL amplifiers now support configurations that use partition IDs other than 1.
- Fixed an issue where EX-UBT and TCM-1 devices might display the wrong firmware version in Remote Device Maintenance after being rebooted.
- Fixed an issue causing the first attempted firmware update for a configured EX-UBT to fail
- Fixed an issue where Tesira POTS might erroneously detect a dial tone.
- Fixed an issue causing a blank screen when switching between 1G and 10G layouts.
- Fixed an issue causing a blank screen when pushing a configuration file that disables compression.
- Fixed an issue where Tesira VoIP does not clear registration faults when the system configuration is cleared.

## 3.10

**Released May 2019**

### **Software Download Link:**

- [Download Tesira Software v3.10](#)
- [Download Canvas Software v3.10](#)

### **New Features:**

- Added support for TesiraXEL amplifiers, including support for Ethernet daisy-chaining for new amplifiers.
- Added TesiraXEL Amplifier block.

### **Updates:**

- Improved fault and user logs for VoIP.
- System Connect Dialog now indicates device state.
- Changes to Network Configuration dialog.
- Added "sleeping" response field for TTP command "DEVICE get discoveredServers".
- Removed menu option for exporting to Oreno.

### **Resolved Software Issues:**

- Fixed issue with recalling fine grain presets for TCM-1 and EX-UBT blocks.
- Fixed issue preventing Tesira software from installing correctly on systems not using English as their default locale.

### **Resolved Firmware Issues:**

- Fixed an issue with AV Router blocks that could cause some displays to temporarily lose video when switched.
- Fixed an issue with serial ports where command strings would not send until the port received serial input.
- Fixed an issue with where, after some time, it would not be possible for a TTP prompt to control a device.
- Fixed TCM-1 block subscriptions for level and mute states when recalling presets.
- Fixed an issue where an OH-1 may become unresponsive and require a power cycle to restore operation.
- Fixed an issue that could prevent redial changes in Tesira SW from populating in the VoIP web management interface.
- Fixed an issue preventing signaling ports for both lines from being configured as 0 from VoIP web management interface.
- Fixed an issue preventing Tesira VoIP from being integrated with Vonage cloud systems.

- Fixed an issue preventing Tesira VoIP from correctly reporting its Ethernet speed and duplex information.
- Fixed an issue preventing Tesira VoIP from speed-dialing number combinations that include a conference bridge number, pauses, and the conference bridge access code while onhook dialing.
- Fixed an issue preventing Tesira VoIP from accepting transferred calls in Avaya Session Manager.
- Fixed an issue preventing Tesira VoIP from working with Huawei conference bridges.

### **Known Issues:**

- Undo/redo commands do not work correctly with TesiraXEL amplifier blocks that have duplicated, pasted, or dragged to the layout from a processing library. Saving and reopening the configuration file successfully restores normal undo/redo operation for affected blocks.

## **3.9**

### **Released March 2019**

#### **Software Download Link:**

- [Download Tesira Software v3.9](#)
- [Download Canvas software v3.9](#)

### **New Features:**

- Added new features to HD-1:
  - Device information now shown on display when device is unconfigured
  - Display can now show local phone number
  - Added logic output signals for mute and soft buttons
  - Added programmable level controls
  - Added ability to add or delete speed dial numbers from the HD-1 keypad
- Added AES67 support in Dante modules

### **Updates:**

- Added FIR filter graphing in the Transfer Function block
- For devices that support VoIP, added a telephone icon to the front panel home screen and a "VoIP screen" selection to the main menu. These are shortcuts to the VoIP screen.

## **Resolved Software Issues:**

- Fixed an issue where the TCM-1A block's logic input node labels are not updated after "Mute Mics as Group" or "Define LED Logic Inputs" setting is changed.
- Fixed the "Biamp TCM-1 Blocks" processing library to use "Post Gate/Post NOM" direct output for all channels in the Beamtracking Automixer block.
- Fixed a group name typo in the Select Block Attributes dialog for the Tone Generator block.
- Fixed a spelling mistake in the error message generated when pasting DSP data on a TCM-1 block.

## **Resolved Firmware Issues:**

- Fixed an issue that can cause sending the configuration to fail when the system contains many TEC-1 devices and other remote devices.
- Fixed an issue with the Network Command String block that can eventually cause a Tesira device to reboot itself.
- Fixed an issue where the device description on the front panel is blank upon startup if the device is protected.
- Fixed an issue where clearing a system configuration did not clear audio clock synchronization faults.
- Fixed an issue that can cause audio to drop out or contain buzzing/popping on the analog audio input signals of IDH-1 devices when video resolution is changed.
- Fixed an issue where more than 15 channels of video would not work when used together with AVB.1 audio channels.
- Fixed an issue that could result in video streams being active after rapidly toggling their router crosspoint despite the crosspoint being set to off.
- Fixed an issue that can cause TesiraLUX units to occasionally lock up.
- Fixed a video incompatibility issue between TesiraLUX and Roku Ultra devices.
- Fixed an issue where increment/decrement logic inputs on Level control blocks do not ramp continuously.
- Fixed an issue preventing the VoIP proxy from changing until the device is power cycled when set via VoIP webpage.
- Fixed an issue preventing Tesira VoIP from working with 8x8 cloud proxies.
- Fixed an issue preventing Tesira VoIP from sending DTMF signals during off-hook speed dial.
- Fixed a VoIP issue preventing real-time codec changes from being populated.
- Fixed an issue preventing Skype for Business and Avaya gateways to work together with a Tesira VoIP system.
- Improved stability of AVB cards.
- Fixed an issue where AVB clocks can become out of sync when devices are rebooted.
- Fixed a known issue from 3.8 release that required a manual reboot after changing serial port settings.

## **3.8.1**

**Released January 2019**

**Software Download Link:**

- [Download Tesira Software v3.8.1](#)
- [Download Canvas Software v3.8](#)

**Resolved Software Issues:**

- Fixed an issue that could cause Tesira software to crash and the configuration file to potentially become corrupted when using an Equipment Table containing fixed-in-unit devices and logical devices.
- Fixed an issue where the firmware update dialog may not report the firmware update status or complete its progress bar.

**Resolved Firmware Issues:**

- Maintenance release for internal manufacturing.

## 3.8

**Released January 2019**

**Software Download Link:**

- [Download Tesira Software v3.8](#)
- [Download Canvas Software v3.8](#)

**New Features:**

- All AVB-enabled Tesira devices now support both control and AVB networks via a single network connection.
- Added ability for server-class devices to route serial port commands over the network.
- Added web page for configuring and administering VoIP on the SVC-2 card, TesiraFORTÉ VT, TesiraFORTÉ VT4, and TesiraFORTÉ VI.
- Added a Reboot button to the Remote Devices dialog.

**Updates:**

- Front panel now shows all enabled network interfaces and card information.
- Added support for ATND971a, ATND8677a, and ATND8734a Audio Technica microphones.
- Improved video color conversion, compression, and bandwidth settings profiles.
- Improved AEC with regard to double-talk distortions.

**Resolved Software Issues:**

- Added a scroll bar to the firmware update prerequisites dialog box.

- Fixed an issue that caused multiple invalid warnings when incrementing threshold value within an Advanced Compressor block.
- Fixed reference routing issue when using EX-AEC and multi-channel AEC blocks.
- Fixed an issue that caused the following error when extracting logs: "Unable to extract logs: The UTC time represented when the offset is applied must be between year 0 and 10,000. Parameter name: offset."
- Fixed an issue that could cause a crash when canceling out of the credentials dialog when pulling user logs from a protected system.
- Replaced "Synchronized Offset" column with current time relative to PC in Event Logs.
- Fixed reporting of the "Stream (HDCP Protected/Unprotected)" text label on the Network tab of AV Input and AV Output blocks.

### **Resolved Firmware Issues:**

- Fixed an issue that was causing the EX-UBT to require manual power cycling after a failed firmware update.
- Fixed an issue where TCM-1, TCM-1A, AMP-450P, and/or EX-UBT firmware can fail to update after a server-class device has successfully completed its firmware update.
- Fixed an issue where TEC-1 devices failed to be configured after rebooting their proxy server.
- Fixed control connection issues related to Dante microphones and wall plates.

### **Known Issues:**

- DAN-1 and TesiraFORTÉ DAN devices will advertise themselves within Dante Domain Manager even though it is not supported. Assigning these devices to the Dante Domain will result in audio not flowing.
- A manual reboot is required after changing serial port settings.

## **3.7.1**

**Released October 2018. Firmware-only release, aligned with software release 3.7**

### **New Features:**

- There are no new features in this release.

### **Updates:**

- EX-UBT & TCM-1 are now compatible with legacy 100Mbps PoE (802.3af) injectors and TCM-1A & AMP-450P are now compatible with legacy 100Mbps PoE+ (802.3at Class 4) injectors when connected to an AVB capable switch. Gigabit link speed PoE+ injectors are recommended.

## Resolved Firmware Issues:

- Resolved an issue that could result in EDID information not being read correctly when using active optical HDMI cables.
- EX-UBT units no longer risk stopping audio after multiple disconnect/reconnects.
- Fixed a problem that could result in audio not passing from a video to an audio partition if it originated from an AV input with HDCP enabled.
- Fixed a problem that could result in gPTP failing and thus causing some network switches to become unresponsive.
- A Server class device will no longer report "Unable to communicate with IO card in slot 1 (or 13)" if the network suffers a broadcast storm. Once the network settles, the NIC will recover automatically.
- Fixed an issue that could result in the analog telephone interface on STC-2v2 card or TesiraFORTÉ VT units to dial too quickly if "Wait for dial tone" was disabled by the user.

## 3.7

**Released September 2018**

### Software Download Link:

- [Download Tesira Software v3.7](#)
- [Download Canvas Software v3.7](#)

### New Features:

- Added HDCP support for TesiraLUX.
- Added support for Tesira EX-UBT.
- Biamp Tesira USB audio driver now available to download from **Help > Check for Updates** within the Tesira software. This driver provides for greater than 2x2 channels of USB audio in TesiraFORTÉ (up to 8 total channels), as well as 8x8 multichannel USB audio in the EX-UBT, when connected to a Windows 7 or Windows 10 host computer.

### Updates:

- Improved AEC NLP performance.
- Changed the layout of the OLED home screen for TesiraFORTÉ, TesiraLUX, and Tesira Amplifier devices to be consistent with the TesiraSERVER and TesiraSERVER-IO devices by moving the navigation icons from the right to the bottom.
- Updated the Settings icon to be a gear instead of a wrench on Tesira device OLED displays.
- Added an icon to the TesiraLUX OLED display to indicate whether HDCP is enabled.

## **Resolved software issues:**

- Fixed an issue introduced in 3.6 where opening a configuration file from its icon launches the Tesira software, but does not open the file.
- Fixed an issue where the main software window might not appear on the current screen when software is launched if it was previously positioned off-screen.
- Fixed an issue where links between AEC blocks become disconnected following an Undo and Redo operation.
- Fixed an issue where using <TAB> within the Event Logs dialog caused the focus to get stuck within the System List grid.
- Fixed an issue that could cause Tesira software to crash when creating a preset for a TCM-1 and changing the "Mute mics as a group" setting.
- Fixed an issue that could cause Tesira software to crash if entering an invalid channel number in the "Show Channel" DSP property.
- Fixed an issue that could cause Tesira software to crash when moving Logic Partition Connectors to the front.
- Fixed an issue in Application Settings > Device List where entering an invalid Host Name or IP Address prevented buttons from being clicked.
- Fixed preset behavior for TCM-1/TCM-1A blocks where "Mute As a Group" setting has been enabled that was causing only Channel 1 to be used for determining the mute state of the group.
- Revised context menus to ensure their UI themes are consistent with the UI of Tesira software.
- Revised the tabbing order of UI elements for improved consistency.
- Repositioned "OK" and "Cancel" buttons in Equipment Table dialog to ensure they do not become hidden when dialog size is reduced.
- Revised audible locate message text when clicking the Locate button.

## **Resolved Firmware Issues:**

- Corrected the TTP name for the Clip attribute of the AMP-450P and TCM-1A.
- Resolved an issue that could intermittently result in LLDP-based IEEE 802.3at PoE+ power negotiation failing on Extreme Networks X-440-24P G1 switches for the AMP-450P and TCM-1A.
- Resolved an issue preventing Tesira VoIP from registering with Microsoft Lync 2013/SFB 2015.
- Fixed an issue by changing the authentication status report to "Not Configured" instead of "Not Authenticated" when disabling 802.1x mode on the control port.
- Fixed a bug preventing expander discovery after switching from converged AVB and control networks to separated AVB and control networks.

## **Known issues:**

- USB audio may become disabled if the USB cable into the EX-UBT is plugged and unplugged quickly and repeatedly. A reboot of the EX-UBT will clear the issue. This behavior is not expected to affect normal usage of the interface. This issue will be resolved in the next firmware update.
- When using per-channel AEC referencing for an EX-AEC or an EX-MOD with EEC-4 cards, any signal sent to the first channel of the AEC Reference block will propagate to all channels on that block, and signals sent to channels



other than the first channel will be ignored. The workaround for this issue is to use individual single-channel AEC Reference blocks for each AEC reference channel.

## 3.6

**Released July 2018**

### **Software Download Link:**

- [Download Tesira Software v3.6](#)
- [Download Canvas Software v3.6](#)

### **New Features:**

- Added support for 802.1X on control and VoIP ports.

### **Updates:**

- Improved clipping/limiting indication on the TCM-1A and AMP-450P amplifier block.
- TesiraFORTÉ devices now support up to 12 TCM-1(A)/AMP-450P devices
- Added support for Avaya Aura Communication 7.1.

### **Resolved software issues:**

- Fixed an issue where renaming a partition after closing another partition will rename the closed partition.
- Fixed several context menus that were broken in the Tesira 3.5 release.
- Resolved an issue that was causing a line connection rule to prevent valid use of the TCM-1 Mic block and AEC blocks in signal chains that involved Partition Connectors.
- Changed the meter type for the TCM-1 Mic specially minimized dialog to improve performance.
- Resolved an issue that could cause some channels of an AEC block preconfigured for beamtracking to misbehave if the channel count of the block was modified.
- Resolved an issue that was causing the Beamtracking (BT) indicator on the AEC block to disappear when recalling preset changes.
- Resolved an issue that was causing the Beamtracking (BT) indicator on the AEC block to disappear when pasting DSP settings.
- Resolved an issue that was allowing invalid levels to be set via the keyboard for audible locate for the TCM-1A and AMP-450P devices

### **Resolved Firmware Issues:**

- Resolved an issue that could prevent clip from indicating on the TCM-1A and AMP-450P amplifier block when the level was set below 0.0dB
- Resolved an issue that could cause TesiraFORTÉ devices to become slow and/or unresponsive when proxying 10 TCM-1(A)/AMP-450P devices.
- Resolved several issues that could cause firmware update instability on busy and/or large networks for TCM-1(A)/AMP-450P devices.
- Resolved several issues related to audible locate on TCM-1A and AMP-450P devices that could cause it to either not work, produce audio artifacts or potentially cause the device to reboot.
- Resolved an issue that could cause LLDP based PoE+ power negotiation to fail on cold switch powerup for TCM-1A and AMP-450P devices.
- Resolved an issue that was preventing amplifier initialization faults from being reported for TCM-1A and AMP-450P devices.
- Resolved an issue that was preventing TTP get commands from working on several TCM-1 Mic block attributes.
- Fixed an issue where Tesira amplifier devices would occasionally drop off the network.
- Resolved an issue that could cause STC-2v2 or TesiraForte VT to become unstable when its line voltage fluctuates.
- Fixed an issue that prevented VoIP firmware from being upgraded. This affected Tesira SVC cards for Tesira SERVER-IO/SERVER and Tesira FORTE VT/VT-4/VI products.
- Fixed an issue with HD-1 where a plus sign (+) included in a speed dial entry would fail a system configuration.
- Fixed an issue where a Tesira SERVER / SERVER-IO with 2 DAN-1 cards report "Media clocks not synchronized on network Dante Default" incorrectly.

## **3.5.2**

**Released June 2018. Firmware-only release, aligned with software release 3.5.1**

### **New Features:**

- There are no new features with this release.

### **Updates:**

- Added support for new hardware revisions of Tesira SERVER, SERVER-IO, and all TesiraFORTÉ variants. Note that the new hardware revisions of these products are not compatible with firmware versions earlier than 3.5.2. Products with these new hardware revisions will begin shipping some time after the release of 3.5.2 firmware.

### **Resolved Firmware Issues:**

- No firmware issues were resolved in this release.

## 3.5.1

**Released May 2018**

### **Software Download Link:**

- [Download Tesira Software v3.5.1](#)
- [Download Canvas Software v3.5](#)

### **New Features:**

- There are no new features with this release.

### **Resolved Software Issues:**

- Adjusted gain structure to reduce clipping of TCM-1A. Microphone gain has been reduced by 12dB and a +12dB gain stage has been added in the TCM-1 Mic custom blocks. Using the new custom block from Tesira Software 3.5.1 along with Firmware 3.5.1 is required to maintain the same gain structure as Tesira Firmware/Software 3.5.0.
- Fixed an issue introduced in Tesira SW 3.5.0 that could cause Tesira Software to crash when opening the Remote Devices dialog with TesiraAMP or TesiraLUX devices connected.

### **Resolved Firmware Issues:**

- Adjusted gain structure to reduce clipping of TCM-1A. Microphone gain has been reduced by 12dB and a +12dB gain stage has been added in the TCM-1 Mic custom blocks. Using the new custom block from Tesira Software 3.5.1 along with Firmware 3.5.1 is required to maintain the same gain structure as Tesira Firmware/Software 3.5.0.
- Fixed issue with the incorrect operation of the TCM-1A Microphone Peak indicator.
- Fixed issue with Tesira SEC-4 cards in SERVER and SERVER-IO, Tesira EEC-4 cards in EX-MOD, and EX-AEC units that could result in the inability to communicate with the AEC cards or muted AEC Input channels.

## 3.5

**Released April 2018**

### **Software Download Link:**

- [Download Tesira Software v3.5](#)

### **New Features:**

- Added support for Tesira TCM-1, Tesira TCM-1A, Tesira TCM-1EX, and Tesira AMP-450P.

- Added "Preconfigure of Beamtracking Mic" to initialization values for TCM-1 and TCM-1A mics in AEC, Gating Automixer, and TesiraFORTÉ initialization dialogs that include AEC.
- Added preconfigured custom blocks in Processing Library that provide basic conference room layouts for TCM-1 and TCM-1A mics.
- Added ability for AV Input blocks to present a limited EDID table to connected input devices, with manual Input EDID controls now available via the AV Input control dialog.
- Added support for Input EDID Controls to AVInput to present limited EDID to source devices connected to IDH-1 devices.

## **Updates:**

- Updated Audio Object toolbar to better group blocks by functionality, especially I/O blocks.
- Updated Control Object toolbar to better group blocks by functionality, including moving DTMF to it.
- Added audible Locate ability for AMP blocks on TCM-1A and AMP-450P.
- Improved AVB stream and channel counting on compile when there are fanned-out implicit AVB connections.
- Removed ".1" from AVB.1 Input and AVB.1 Output blocks.
- Added hotkey "R" for preset recall.
- Corrected missing lip-sync support for Tesira AMPs and Expanders.
- Tesira AEC now includes support for Biamp's patented interactions between AEC and beamtracking microphone algorithms.
- Added TLS 1.2 support for VoIP.
- Added entry to Event Log for when AVB Pilot stream gets created.
- "License Information" for server-class devices is now automatically generated, accurately lists the Open Source packages incorporated into each device, and provides appropriate attribution for every package.

## **Resolved software issues:**

- Processing Library blocks now snap to grid when placed into a layout.
- Fixed issue where closing and reopening a panel while others are docked can cause software to crash.
- Fixed an issue where AEC Input blocks could be removed without the rest of the TesiraFORTÉ blocks disappearing while software is in "TesiraFORTÉ only" mode.
- Fixed an issue where software could crash when cancelling the Event Log.
- Fixed an issue where links are incorrect after dragging more than one custom block from the Processing Library.
- AV Input bandwidth profiles are no longer able to be updated while online, which prevents changes from being lost.
- Extended timeout of firmware updates in Tesira software to prevent failed firmware updates.

## **Resolved firmware issues:**

- Fixed preset recall failures that occur when using Server redundancy due to the standby device remaining locked.

- Fixed an issue in TesiraFORTÉ VT and STC-2 v2 cards in SERVER-IO that resulted in incoming POTS calls oscillating between "Incoming Call" and "Idle" status.
- Fixed a crash scenario caused by an empty string being used in the Dialer block.
- Fixed the "Line in Use" voltage detection for POTS to prevent false Line Intrusion (LI) indicators.
- Fixed Line Status Voltage indicator in the TI Control/Status block for newer TesiraFORTÉ VT/VT4/STC-2 to show the correct line voltage.

### 3.4.3

**Released February 2018. Firmware-only release, aligned with software release 3.4**

#### **New Features:**

- There are no new features with this release.

#### **Updates:**

- There are no updates on this release.

#### **Resolved firmware issues:**

1. Fixed several related issues that could cause AVB audio to stop working spontaneously and resulted in the Tesira device reporting "Unable to communicate with IO card in slot 1 (or 13)". This affected Tesira SERVER with the AVB-1 card, Tesira SERVER-IO with the AVB-1 card, all TesiraFORTÉ AVB models, EX-MOD, EX-IN, EX-OUT, EX-IO, and EX-AEC.

### 3.4.1

**Released January 2018. Firmware-only release, aligned with software release 3.4**

#### **New Features:**

- There are no new features with this release.

#### **Updates:**

- There are no updates on this release.

### **Resolved firmware issues:**

1. Fixed a problem that could result in Dante interfaces reporting a firmware update failure after Tesira was updated to firmware version 3.4. This problem only affects TesiraFORTÉ DAN AI, TesiraFORTÉ DAN CI, TesiraFORTÉ DAN VT, TesiraFORTÉ DAN VT4 and SERVER or SERVER-IO units fitted with one or more DAN-1 cards.

## **3.4**

**Released December 2017**

### **Software Download Link:**

- [Download Tesira Software v3.4](#)
- [Download Canvas Software v3.4](#)

### **New Features:**

1. Added support for Attero Tech Dante Wall Plates.
2. Added ability to locate devices via blinking LED.
3. Changed Tesira Output Window to use tabbed user interface instead of dropdown list.

### **Updates:**

1. Improved video transitions with the AVRouther.
2. Updated graphics on TesiraLUX splash screen.
3. Improved the AEC NLP algorithm to remove more residual echo.
4. Added VoIP support for Shortel Workgroup calls.
5. Added VoIP support for Mitel Border Gateway.
6. Updated VoIP to prevent calls being dropped when receiving unexpected SIP messages.
7. VoIP now declines non-audio requests in Lync/Skype for Business environments.
8. Added VoIP support for handling multiple DHCP offers.
9. Updated call-progress tones for the following countries: Australia, UK, Ireland, Portugal, Guam, Pakistan, Romania
10. Corrected System Information in Tesira Output Window when connecting live to a running system.
11. Updated Dante firmware to version 1.0.0.80.

### **Resolved Software Issues:**

1. Fixed issue with software allowing user to select 1280x800 60Hz 2:1 from bandwidth configuration options on a 1Gbps connection in the AVInput block.

2. Fixed issue with AVInput videoBandwidthConfig TTP command documentation showing wrong range (0-100) for compression. Corrected range is 0-19.
3. Fixed issue with AEC connection rules not being correctly enforced through partition connectors.
4. Fixed issue where POTS calls lacking caller ID could crash Tesira software.
5. Fixed issue installing DAN-1 cards in invalid slots could result in Tesira software crashing.
6. Fixed issue with Tesira software crashing when changing RTP ports in VoIP Line Properties dialog.
7. Fixed issue where HD-1 speed dial entries disallowed use of a "+" symbol.
8. Fixed issue where single-channel AEC Ref blocks did not work correctly for AEC expanders.

## **Resolved Firmware Issues:**

1. Fixed an issue where AVOutput incoming stream resolution does not update, which could be triggered by disconnecting a DisplayPort or HDMI cable from its associated AVInput.
2. Corrected OSD Freeze function to display Freeze icon instead of Mute icon.
3. Removed flash in DisplayPort image when plugging in or unplugging HDMI.
4. Fixed issue where HDMI (16) RGB full 4:3, 1024x768 @ 60.00Hz, progressive resolution would render a grey screen instead of the appropriate video signal.
5. Fixed AVOutput level to have 0 dB maximum output limit instead of 12 dB.
6. Fixed issue where embedded audio is not functional on OH-1, which could be triggered by sending a configuration file after a firmware update.
7. Fixed issue with a 1080p Panasonic display and LUX not accepting 1080p60 as a valid output option. Now correctly defaults to 1080p60 (instead of 1080x1200p60) in the EDID preferred setting.
8. Fixed the Product Type in Dante Controller for TesiraFORTÉ DAN VT units.
9. Removed extra spaces in caller ID for analog telephone interfaces.
10. Fixed inconsistencies with analog telephone line voltages for TesiraFORTÉ VT/VT4, TesiraFORTÉ TI, and STC-2.
11. Fixed issue caused by TesiraFORTÉ VT where analog telephone redials when attempting to enter conference bridge pin code.
12. Fixed an issue where VoIP will not get a certificate from TFTP when it has a static IP address.
13. Fixed VoIP support for ShoreTel consultative transfer, which had been broken in Tesira FW v3.3.0.
14. Fixed VoIP conference calls being dropped when using Shoretel SA-400.
15. Fixed an issue where HD-1 loses the ability to mute the VoIP Transmit block when call state changes occur.
16. Fixed an issue where server-class devices may periodically, momentarily become undiscovered, which resulted in periodic faults.
17. Removed unnecessary entries from Event Log.

## **Known Issues:**

1. Tesira returns an error message when locating the standby server of a redundant pair. Once the standby server becomes the active server, device locations works correctly.

## 3.3.2

**Released November 2017. Firmware-only release, aligned with software release 3.3**

### **New Features:**

1. There are no new features with this release.

### **Updates:**

1. There are no updates on this release.

### **Resolved firmware issues:**

1. Resolved a problem that could cause the analog telephone interface on VT units dial additional DTMF digits while commanded to dial during a phone conversation. Products affected are TesiraFORTÉ VT, TesiraFORTÉ AVB VT, TesiraFORTÉ AVB VT4, TesiraFORTÉ DAN VT and TesiraFORTÉ DAN VT4.

## 3.3

**Released September 2017**

### **Software Download Link:**

- [Download Tesira Software v3.3](#)
- [Download Canvas Software 3.3](#)

### **New Features:**

1. Additional support for TesiraLUX IDH-1 and TesiraLUX OH-1.

### **Updates:**

1. New functions in Device Maintenance:
  - Reboot device
  - Clear event logs
  - Retrieve event logs
2. Expanders and Remote devices now will display their MAC addresses in the Equipment Table and Device Information.



3. TesiraFORTÉ VI and TesiraFORTÉ VT devices will display the MAC addresses of the VOIP port in the Equipment Table and Device Information.
4. Device Maintenance:
  - “Reset Device” has been renamed to “Clear Configuration” to better reflect its function.
  - Setting date and time can now be performed on multiple devices at once.
5. AEC Input and AEC Processing blocks are now allowed to have a router between them.
6. VoIP interfaces are more tolerant to receiving customized (non-standard) option messages, as used by some VoIP proxies as a keep alive method.

### **Resolved Software Issues:**

1. Tesira software now correctly accepts IP addresses only in the NAT Static Public Address field on VOIP blocks.
2. Fixed issues with graphics in control dialogs for Feedback Suppressor, Shelf Filter, All Pass Filter, Pass Filter and Standard Compressor blocks after an Undo operation.

## **3.2**

**Released September 2017**

### **Software Download Link:**

- [Download Tesira Software v3.2](#)
- [Download Canvas Software v3.2](#)

### **New Features:**

1. Added support for TesiraFORTÉ VT, TesiraFORTÉ AVB VT, TesiraFORTÉ DAN VT, TesiraFORTÉ DAN VT4 and TesiraFORTÉ AVB VT4
2. Added support for Audio-Technica Dante microphone ATND8734.
3. Added VoIP support for ShoreTel conference bridge SA-100/400.

### **Updates:**

1. VoIP will now synchronize its time with its host if both SNTP and static are not set.
2. To reduce the likelihood of a denial of service attack, the number of TTP sessions are limited to 80 for SSH, 32 for Telnet, and 1 for serial port session per physical connection.
3. Changed the dial tone level range for the TI Control/Status block from -100/0 dB to -70/0 dB (min/max).
4. AEC Ref block is now not a “pass-through” block by default.
5. AEC Blocks now offer an equipment type setting.
6. Added “Show All” to the AEC property sheet.

7. AEC Tail length is determined by the device the AEC block is placed into, instead of how the block is created.
8. VoIP Control Status block supports advanced and basic views. VoIP can now be fully configured from within the control status block.
9. VoIP has added a Time Synchronization Mode of Host. This is the device “hosting” the VoIP card. This is now the default Time Synchronization Mode for new blocks.
10. Improved compilation time when TesiraFORTÉ DAN units are in the layout.
11. Updated video bandwidth calculations.

### **Resolved Software Issues:**

1. Resets in the advanced AEC dialog will now only reset items on that tab page.
2. Resolved issue that could result in the System Status window failing to populate the list of devices.
3. Fixed an issue that resulted in slow Device Discovery.
4. The Device Information tab in Equipment Table now correctly displays the time when the information was last updated.
5. Fixed an issue with amplifier discovery in the equipment table.

### **Resolved Firmware Issues:**

1. Fixed a USB issue relating to TesiraFORTÉ not showing up as recording devices on the host PC for bi-directional USB blocks.
2. Fixed the logic connector power output for TesiraFORTÉ to be off by default at power up.
3. Fixed VoIP Consultative Transfer type for ShoreTel.

## **3.1.1**

**Released August 2017, software-only release, aligned with firmware release 3.1**

### **Software Download Link:**

- [Download Tesira Software v3.1.1](#)

### **Resolved Software Issues:**

1. Fixed an issue in which the software could crash if the Equipment Table was opened, under certain specific circumstances.

## 3.1

**Released July 2017**

### **Software Download Link:**

- [Download Tesira Software v3.1](#)
- [Download Canvas Software v3.1](#)

### **New Features:**

1. New TTP command added for rebooting Remote Devices: "rebootERD".
2. Enable/Disable SSH on Tesira server-class devices via Tesira SW or TTP.
3. Enable/Disable VoIP HTTP and Telnet ports via Tesira SW. Ports are closed by default.
4. Added ability to add more than one device at a time to Equipment Table.
5. Equipment Table now displays additional device information, such as MAC addresses and firmware version.
6. Software now displays feedback when line connections are not allowed.

### **Updates:**

1. Improved TTP performance for multiple TTP sessions.
2. Removed AVB advertisements from devices that contain no AVB.1 blocks. This reduces network traffic and makes it easier to connect explicit AVB streams, as only Tesira devices that have AVB.1 blocks will show up in the AVB controller software.
3. Improved SSH security, including a security patch that resolves CVE-2015-5600. Note that third-party control systems may also require SSH updates to maintain compatibility. Verifying the third-party control method's SSH requirements prior to updating Tesira firmware is recommended.
4. Added fault types for reporting specific clock synchronization errors.
5. Improved LED update performance for AT Dante microphones.
6. Equipment Table toolbar button added to Tesira software UI.
7. Device Maintenance now allows multiple devices to be reset at once.
8. Object ID Inspector now allows multi-select for making changes to multiple devices at once.
9. Router blocks are now allowed in front of AEC processing blocks, provided that only a networked input or standard input (i.e., non-AEC Input) block precedes the Router block. AEC processing blocks, provided that only a networked input or standard input (i.e., non-AEC Input) block precedes the Router block.
10. Tesira software now runs as a 64-bit process on 64-bit operating systems.

### **Resolved Software Issues:**

1. Fixed an issue where AEC blocks could cause configuration failures. AEC blocks could cause configuration

failures.

2. Fixed an issue where too many AVB blocks could cause configuration failures.
3. Fixed an issue where spaces in speed dial phone numbers could cause configuration failures.
4. Fixed an issue where Tesira layouts may not open properly.
5. Fixed an issue where font sizes could not be changed back to their original values.
6. Fixed an issue where the TEC-1 Logic Index was not saving in a fine-grain preset.
7. Fixed an issue with visual alignment in large mixers when scrolling to the end of the mixer window.
8. Fixed an issue that could cause Tesira software to crash when connecting split pass-through blocks.
9. Fixed an issue that could cause Tesira software to crash when editing port properties for a block.
10. Resolved an issue where the DSP Resource text was shifting position.
11. Improved messaging/enforcement if a proxy limit is encountered in the Equipment Table.
12. Signal Present Meter now participates in offline logic simulation.

### **Resolved Firmware Issues:**

1. Made improvements to reduce the likelihood of AVB card communication faults.
2. Fixed AVB dynamic VLAN support issue that resulted in some AVB streams re-establishing after network topology changes.
3. Improved AVB performance by reducing unnecessary AVB network traffic.
4. Increased the AVB Peer Delay maximum limit from 10000 to 2,147,483,647.
5. Network Command String blocks now correctly update their status when a remote device disconnects.
6. Suppressed the Dante audio fault caused by having a Dante interface in the hardware but no Dante blocks in the configuration file.
7. Disabled rebooting Dante card via Dante Controller to prevent unexpected behavior.
8. Disabled assignment of static IP address to Dante Card via Dante Controller to prevent unexpected behavior.
9. Fixed an issue with Dante Mic block that prevented its logic inputs from being controlled by other devices in the system.
10. Fixed an issue related to Dante cards creating clock loops, which could result in intermittent clock instability and audio artifacts. This previously could occur if 2 Dante cards were connected to the same network, or if a Dante card was used in a system but no blocks were assigned to it.
11. Fixed an issue where a Dante card may lose its network settings after a reboot or firmware update.
12. Fixed an issue where a Dante card may become unresponsive or unrecoverable after a firmware update.
13. Fixed an issue whereby TesiraSERVER, TesiraSERVER-IO, and TesiraFORTÉ devices might reboot if their configuration is cleared while their DAN-1 card is in a fault state.
14. Fixed Dante clocking issues that could result in audio distortion and/or channel shifts.
15. Fixed an issue that resulted in a "Server Device Not Found" fault to be reported on a standalone Tesira server-class device when its network cable is unplugged.
16. Reduced the amount of network traffic used to discover Tesira devices on a network. This is to improve large system stability and prevent expanders from intermittently becoming undiscovered.
17. Fixed distant subnet discovery process to work when media networks are enabled for IP.

18. Fixed a problem introduced in Tesira firmware v3.0.0 that did not allow media\_avb\_02 IP settings for TesiraSERVER devices.
19. Fixed several networking issues that could result in unreliable IP network setting changes.
20. Fixed an issue that resulted in Tesira amplifiers rebooting when the Tesira configuration is cleared.
21. Fixed a problem introduced in Tesira firmware v3.0.0 whereby Tesira amplifiers would not increase their cooling fan speed as their channels' temperatures increased.
22. Off-hook dialing mode for VoIP is now operating correctly.
23. Fixed an issue introduced in Tesira firmware v3.0.0 whereby configurations might fail due to certain telephone speed dial labels and/or telephone numbers containing spaces. Spaces will now be removed automatically when dialing a telephone number that contains them, rather than allowing the configuration to fail.
24. Fixed an HD-1 issue in which the redial option would not work unless the line is open and connected.
25. Fixed the call status display for HD-1 to show "Connected" when a connection is made, rather than when the far end's telephone rings.
26. Fixed a TEC-1 issue that resulted in reporting "Error Code 6" after making a selection.
27. Fixed an audio issue in which white noise was appearing on random channels and could not be muted using signal path controls.
28. Fixed an issue that would cause device configuration to fail if sending a configuration took longer than 3 minutes.
29. Fixed an issue introduced in Tesira firmware v3.0.0 that caused the Device Description on the front panel of Tesira server-class devices to be blank.
30. Fixed an issue whereby clearing a configuration that contained an ANC Input block caused all Tesira server-class devices to reboot.
31. Fixed an audio conversion issue for AEC Reference blocks that share fanned-out connections with Partition Connectors. This issue would result in audio artifacts occurring in the AEC Inputs. AEC Reference blocks that share fanned-out connections with Partition Connectors. This issue would result in audio artifacts occurring in the AEC Inputs.

## 3.0.2

### **Released April 2017, firmware-only release, aligned with software release 3.0**

This firmware release is the non-beta version of the 3.0.2 beta firmware release. It includes all of the fixes from the 3.0.2 beta, and has now been tested thoroughly enough to be elevated from a beta version to a final version. The 3.0.2 final release contains one additional fix that wasn't included in the beta.

### **New Features:**

1. There are no new features with this release.

### **Updates:**

1. There are no updates on this release.

### **Resolved Firmware Issues:**

1. Includes all fixes from 3.0.2 Beta.
2. Fixed an AEC audio issue heard at the far end when NLP is enabled and the near end has a high noise floor. AEC audio issue heard at the far end when NLP is enabled and the near end has a high noise floor.

## **3.0.2 Beta**

### **Released March 2017, firmware-only release, aligned with software release 3.0**

Please note that if using separate networks mode, it is necessary to clear the configuration from the system (Reset from Device Maintenance) before performing the firmware update. The configuration can be sent to the system after the firmware update process has completed.

### **New Features:**

1. There are no new features with this release.

### **Updates:**

1. There are no updates with this release.

### **Resolved Firmware Issues:**

1. Fixed discovery of expander-class devices when using separate control and AVB networks.
2. Fixed an issue where AEC reference channels were not allocated correctly, resulting in a failure when sending a system configuration.
3. Fixed a "Permission Denied" error when operating a VoIP Dialer block and logged in with proper credentials.
4. Fixed cross-fade logic for the Level Control block that resulted in system misbehavior.

## **3.0**

### **Released February 2017**

### **Software Download Link:**

- [Download Tesira Software v3.0](#)
- [Download Canvas Software v3.0](#)

## **New Features:**

1. Added support for TesiraLUX [IDH-1](#) and [OH-1](#) devices
2. Added support for TesiraFORTÉ DAN devices
3. Added Shure MXA microphone series input block

## **Updates:**

1. System device count limit extended to 128 devices in systems with TesiraFORTÉ. Previously, systems with TesiraFORTÉ devices were limited to 64 units. More details on system limits can be found [here](#).
2. Enhanced Partition Connectors functionality. Connector blocks can now be moved and connected in the System View window.
3. Included several VoIP enhancements:
  - Added support for duplicate IP detection feature
  - Added ability to dial into an internally hosted Lync/SFB Conference number.
  - Lync/SFB normalization rules are now gathered during the registration process.
4. Noise reduction performance enhancements in Biamp AEC. AEC.
5. Equipment Table now maintains the last device model when adding a new unit
6. Enhanced block selection support:
  - Right-click - Select All Block of This Type functionality added
  - ALT – “Draw Box” select will select blocks but not lines.

## **Resolved Software Issues:**

1. Fixed a problem resulting in expanders sometimes failing to be proxied automatically by TesiraFORTÉ devices.
2. Fixed a problem where locked filters in a Uberfilter do not always appear to stay locked when recalled as part of a preset.
3. Fixed a problem where the order of partitions doesn't remain persistent.
4. Added missing AEC Noise Min field to the Property Sheet. AEC Noise Min field to the Property Sheet.
5. Fixed a problem with logic partition connector and custom block connection.

## **Resolved Firmware Issues:**

1. Multiple improvements allowing system scaling.
2. Fixed problem resulting in front panel failure in Server and Server IO not always being detected.
3. Fixed a security issue described in CVE-2016-5195.
4. Software attributions corrected and updated.

5. Fixed problem with Expanders reporting AVB card faults.
6. Fixed problem with HIGH Z indicator threshold on TesiraAMP-4300R CV amplifiers.

## 2.6

**Released September 2016**

### **Software Download Link:**

- [Download Tesira Software v2.6](#)
- [Download Canvas software v2.6](#)

### **New Features:**

1. Tesira now supports creating or importing outbound normalization rules for each VoIP line.
2. Added support for Microsoft Lync/Skype for Business Enterprise Pooling and Call Manager failover.
3. Added the ability to transfer a VoIP call with optional consultative transfer mode.
4. AVB Peer Delay threshold can now be set for Servers and Expanders via the software Device Maintenance interface and through TTP.
5. Added the ability to create a custom login banner to be displayed when logging into a Tesira system via SSH. The login banner supports UTF-8 encoding. Please note many SSH clients impose their own restrictions on UTF-8 encoding and banner length.
6. Added ability to lock the front panel on Tesira amplifiers.
7. Added support for RFC 1122 that allows a hostname to begin with a number.

### **Updates:**

1. Improved support for Lab.gruppen amplifiers. CAFÉ 1.3 software is required. See the Lab.gruppen support website for an updated installer and its release notes.

### **Resolved Software Issues:**

1. Added an inbound TCP port rule on install so that device operations don't time out.
2. Correct a problem with Via blocks that may cause a device to reset when opening control dialogs.
3. Fixed a problem that could result in a Preset block sometimes failing to sync last recalled preset correctly.
4. Fixed a problem that could result in a crash when exporting from Object ID inspector under certain conditions.
5. Fixed a problem that could result in the Level track bar not be in the correct location after a change to minimum or maximum values.
6. Logic blocks inside a custom block now display device assignment correctly.
7. Fixed a problem that could result in VoIP related crash when connecting newer software to older firmware.
8. "Apply line text to ports" menu is no longer incorrectly identified as "signal path identifier".



9. Fixed a problem that could result in Docking panels not displaying correctly.
10. Undoing moves involving the custom block no longer result in unconnected lines.
11. AECAEC conferencing mode has been replaced with NLP (Non-Linear Processing) Level.

## **Resolved Firmware Issues:**

1. Fixed fault reporting for server-class devices so they report a fault when they cannot discover each other. This was a problem introduced in 2.4.
2. Fixed an issue that allowed server-class devices to proxy expanders that reside on different subnets. This was a problem introduced in 2.4.
3. Fixed device discovery for server-class devices to allow servers to be placed on distant subnets.
4. Fixed AVB.1 Fast Connect to reconnect AVB.1 streams after updating firmware.
5. Fixed an issue that reports an "Unable to communicate with the IO card in slot 1" fault for TesiraFORTE and "Unable to communicate with the IO card in slot 13" fault for Tesira Servers after a firmware upgrade.
6. Fixed an issue caused by with SSH keys changing after a firmware upgrade.
7. Reduced the amount of multicast network control traffic used for internal Tesira network device discovery.
8. Tesira amplifiers now correctly return ATTRIBUTE\_NOT\_SUPPORTED instead of OK when analog failover is not enabled when changing any failover attribute through TTP.
9. Fixed an issue with the peak Failover Peak LED erroneously illuminated on Tesira amplifiers.
10. Fixed a failure to send configuration issue caused by placing only non-audio blocks in a partition for a device.
11. Fixed a failure to send configuration issue caused by a large number of presets and partitions.
12. Fixed a failure to resend configuration issue specific to a Lab.gruppen amplifier block.
13. Fixed a failure to change networking settings issue caused by changing the default gateway.
14. Fixed an issue with the serial port caused by enabling Tesira System Security resulting in most commands not to execute successfully. As a result of this fix, all TTP sessions (via serial port, telnet, and ssh) are terminated for security reasons when server-class devices are protected or unprotected.
15. Fixed security issue in Linux kernel described in CVE-2016-5696.
16. Fixed user-defined DNS settings to have priority over DNS settings obtained from a DHCP server.
17. Fixed fine-grained presets to allow them to get recalled via logic inputs on protected systems, including from TEC-1 and EX-LOGIC.
18. Fixed a VoIP issue to allow Tesira VoIP to answer incoming calls caused by some scenarios with the Avaya Session Manager.
19. Fixed a VoIP issue in the Cisco environment caused by the session not getting refreshed resulting in the call being terminated.
20. Fixed a VoIP issue by adding support for processing the P-Asserted-Identity header.
21. Fixed a VoIP issue that reports two active call appearances online when in the middle of a transfer.
22. Fixed a VoIP issue that results in unknown behavior on the callee side when the caller hangs up while being transferred. A side effect is that a call transfer does not work when done from the speed dial.

## 2.5.1

**Released August 2016, firmware-only release, aligned with software release 2.5**

### **New Features:**

1. There are no new features with this release.

### **Updates:**

1. There are no updates with this release.

### **Resolved Issues:**

1. Fixed an issue that caused Tesira server-class devices to become unresponsive or report as an Inconsistent Device during configuration or after enabling System Security.
2. Fixed an issue causing any TesiraFORTÉ either to freeze or disconnect from Tesira software or Biamp Canvas when several meters are open.
3. Fixed an intermittent issue that caused Tesira Amplifiers to no longer be discovered by Tesira software even though audio continues to operate.

## 2.5

**Released June 2016**

### **Software Download Link:**

- [Download Tesira Software v2.5](#)
- [Download Canvas Software v2.5](#)

### **New Features:**

1. Added support for AMP-4175R, AMP-4300R CV, AMP-4350R and AMP8175R Tesira amplifiers.
2. Tesira software now allows for event logs to be retrieved from one or more devices in a system. The logs contain relevant device information and can be useful in troubleshooting situations.
3. Telnet is now disabled by default to improve security. Telnet can be enabled through software.

### **Software Updates:**

1. Tesira software registration requirements have been removed.

### **Firmware Updates:**

1. Improved AVB 1722.1 interoperability
2. New Biamp logo now displays on front panel display

### **Resolved Software Issues:**

1. Corrected Remote Devices window so that expanders show the specific model number
2. Fixed general VoIP issues
3. Allow for RTP/SRTP port number lower than 4000 in VoIP line properties
4. Fixed some compressor issues
5. Fixed a problem that could cause systems to fail configuration in rare cases

### **Resolved Firmware Issues:**

1. Improved AVB 1722.1 interoperability

## **2.4.2**

**Released February 2016, firmware-only release, aligned with software release 2.4**

### **New Features:**

1. There are no new features with this release.

### **Updates:**

1. Achieved AVnu certification for Tesira Server, Tesira Server IO, and TesiraFORTÉ.

### **Resolved Firmware Issues:**

1. Improved interoperability with Extreme Network AVB switches.
2. Improved AVB 1722.1 interoperability.

## 2.4.1

**Released October 2015, firmware-only release, aligned with software release 2.4**

### **New Features:**

1. There are no new features with this release.

### **Updates:**

1. There are no updates with this release.

### **Resolved Firmware Issues:**

1. Fixed an issue introduced in 2.4.0 that caused phantom power and gain to not work correctly for TesiraFORTÉ AI.

## 2.4

**Released October 2015**

### **Software Download Link:**

- [Download Tesira Software v2.4](#)
- [Download Canvas Software v2.4](#)

### **New Features:**

1. Networking Enhancements:
  - [Media Networks](#) – Tesira systems now support connection to multiple media networks that all share a common media clock. Digital audio cards of the system can be placed into different media networks. This feature supports the display of a media network diagram that shows the media clock master relationships between Tesira devices and the media networks connected to them.
  - [Control Networks](#) – Tesira now allows systems to be configured with a control network that is separate from the AVB media network(s).
  - The control network of a Tesira system can now [span multiple subnets](#).
2. Added support for the HD-1 hardware dialer. Hardware dialer blocks can be added to the layout and configured for their corresponding HD-1 devices.
3. Added support on SVC-2 and TesiraFORTÉ VI for [Lync Enterprise Voice and Skype For Business](#) as voice endpoints.

4. Added Do Not Disturb feature to SVC-2 and TesiraFORTÉ VI.
5. Added support for Oreno control software.

### **Software Updates:**

1. The Equipment Table Grid has been updated with an emphasis on usability
  - Host name column is used to assign devices
  - Device classes are listed more clearly

### **Firmware Updates:**

1. RTCP is now configurable when on hold.

### **Resolved Software Issues:**

1. Several VoIP & DTMF problems have been resolved.
2. Fixed several delay equalization issues.
3. Fixed issues that caused some systems to fail configuration.
4. Fixed several display issues when using larger fonts.
5. Addressed several undo/redo related issues.

### **Resolved Firmware Issues:**

1. SVC-2 enhancements, including:
  - Fixed Dialer block to indicate “Trying to connect” instead of “Enter Number” when the callee is temporarily unavailable.
  - Fixed a variety of preset recall issues.
  - Improved media security and made it compatible with Avaya Aura Communication System 6.x and Mitel 7.x
  - Made the session refresh mechanism configurable to use either “update” or “reInvite” method to refresh sessions.
  - Added capability to process the “update” messages during call setup.
  - Provided a few detailed call failure reasons (e.g. “invalid number”, “call forbidden”, “codec negotiation failure”, “temporary unavailable”, “call declined”, “peer busy”, etc...)
  - Fixed fragmented packet loss in Avaya Aura Communication System 6.3.
  - Fixed CSeq issues for some messages such as “reInvite”, “PRACK”.
  - Fixed "Unregistered" VoIP card can't renew IP when being disconnected and reconnected to a new network.
  - Added Avaya Media Shuffling support.
  - Added capability to process port 0 during media negotiation. The port 0 means the media isn't supported.

2. STC-2 enhancements, including:
  - When call monitoring is enabled, parallel installation is allowed.
  - Improved performance of off-hook dialing.
3. Fixed minor issue that results in both “Unable to communicate with expander” and “FW update in progress” being reported simultaneously.

## 2.3.1

**Released July 2015, firmware-only release, aligned with software release 2.3**

### **New Features:**

- There are no new features with this release.

### **Updates:**

- There are no updates with this release.

### **Resolved Firmware Issues:**

1. Fixed problem that could result in USB interface freezing when using with court recording applications.
2. Fixed USB issue that could cause no USB audio to pass, or cause a TesiraFORTÉ not to be recognized by a remote PC.
3. Fixed AVB audio problems when using some fiber media converters.
4. Fixed problem affecting DAN-1 card when primary and secondary network ports are incorrectly connected to the same network.
5. Fixed minor VoIP issue caused by Cisco sending an “update” message during a call, that could result in the call being dropped.

## 2.3

**Released December 2014**

### **Software Download Link:**

- [Download Tesira Software v2.3](#)
- [Download Canvas Software v2.3](#)

## **New Features:**

1. Added support for AVB 1722.1. Explicit AVB blocks are now available for sending and receiving AVB audio to and from other 1722.1 compliant devices. Instructions on how to achieve this are available in this [article](#).
2. Added support for Audio Technica ATND971 Dante microphone and ATND8677 Dante microphone stand.

## **Software Updates:**

1. Fault reporting through the System Status window for expanders and TEC-1 now include far more detail, including unit's serial number, device description and fault description.

## **Firmware Updates:**

1. Call progress tone enhancements for India, Switzerland, Israel, France, Sweden, and Russia on the STC-2 and TesiraFORTÉ TI telephone interfaces.
2. Enhanced expander fault reporting including AVB stream activity.
3. Added support to SVC-2 and TesiraFORTÉ VI VoIP interfaces for DHCP option code 3 that offers listing more than one IPv4 address. Only one of the listed addresses is utilized.
4. Added binary format for DHCP option code 150 for TFTP server addresses to SVC-2 and TesiraFORTÉ VI VoIP interfaces.

## **Resolved Software Issues:**

1. Fixed a problem that could result in a software crash when recompiling a layout in TesiraFORTÉ-Only mode, after removing a TesiraFORTÉ device with a partition connector fixed-allocated to it.
2. Corrected an issue that could result in a software crash if using the System View window.
3. Corrected an issue that could result in a software crash when configuring a system that contains an invalid slot configuration.
4. Corrected a rare problem where a layout was not able to open due to a corrupted label in an Auto Mixer.
5. Corrected an issue that could result in garbled audio when using per channel reference blocks on expanders with AEC.AEC.
6. Corrected an issue with the Feedback Suppressor resetting bands to 20 Hz when its control dialog is closed offline.
7. Corrected an issue where the system status LED in the status bar would not always display green when system status was okay.
8. Adding and removing ports on a room combiner no longer causes incorrect port behavior.
9. Corrected an issue where logic routing via partition connectors was occasionally not correctly updated after compiling a partition and sending an update to the system.
10. Corrected an issue where multiple USB blocks could be allocated to a single TesiraFORTÉ.
11. Copy and Paste now correctly allows USB Device pairs to be assigned to differing TesiraFORTÉ units.

12. Corrected an issue where the select indicator on a Lab.gruppen block would not light correctly.
13. Corrected an issue that could result in duplicated TesiraFORTÉ blocks in fixed mode not always adding the corresponding equipment.
14. Resolved issue with the property sheet not updating properly on copied Lab.gruppen blocks.
15. Fixed an issue where the user interface was not being updated to show the current state of the presets at connect time, nor was it being updated in cases where presets were externally changed while connected.

### **Resolved Firmware Issues:**

1. Fixed a fan stuck at power on issue that causes an audio expander reboot.
2. Fixed "invert button" on logic input blocks allocated to Server or Server-IO.
3. Fixed a problem with Tesira Server/Server-IO where occasionally the device would not power on successfully.
4. Several minor SVC-2 enhancements, including:
  - Fixed card malfunction when an unknown user is configured with Mitel 6.0 SP3.
  - Fixed issue where it was possible to take a call appearance off hold, resuming the call while another call appearance on the same line was in an invalid state (e.g. having a previously placed call still in the state of receiving ring back).
5. Fixed minor issues with the Lab.gruppen amplifier:
  - The SELECT indicator on the Lab.gruppen block now functions correctly.
  - Status indicators on the amplifier get cleared when the configuration is cleared.

## **2.2**

**Released September 2014**

### **Software Download Link:**

- [Download Tesira Software v2.2](#)
- [Download Canvas Software v2.2](#)

### **New Features:**

1. Added support for D series Lab.Gruppen Tesira amplifier.

### **Software Updates:**

1. Properties for a link are now disabled when displaying a signal path or showing an implicit AVB network connection in the layout.
2. Document mode now shown in main title bar.



## **Resolved Software Issues:**

1. Corrected an issue when activating knees on the Compressor block if the knee smoothing factor is set to a large value.
2. Corrected an issue where the compression ratio meter doesn't always return to 0 when a multi-channel compressor is bypassed.
3. Corrected an issue for updating fine-grain presets with level attributes that were created before the user-defined level min/max ranges were introduced.
4. Corrected an issue where mixers could be copied to a TesiraFORTÉ-only layout, even though the number of input and output channels exceeds the maximum available in TesiraFORTÉ.
5. Corrected an issue preventing users from opening files that end in upper case TMF from the most-recently-used list.
6. Corrected an issue with control dialog scroll bars.
7. Corrected an issue with the Noise Gate control dialog not correctly returning from the minimized view.

## **2.1.1**

**Released July 2014, firmware-only release, aligned with software release 2.1**

## **New Features:**

- No new features added in this release

## **Updates:**

- There are no updates in this release

## **Resolved Firmware Issues:**

1. Fixed several problems related to the stability and robustness of Audio and Logic Expanders. Specifically, problems were corrected which could occasionally cause expanders to spontaneously reboot.
2. Fixed two issues with compressor blocks. Bypass now disables make-up gain. Also, enabling/disabling bypass no longer produces audible artifacts.
3. Several minor SVC-2 enhancements, including:
  - Calls not handled properly if terminated while far end is still ringing

## **2.1**

**Released June 2014**

## Software Download Link:

- [Download Tesira Software v2.1](#)

## New Features:

1. Added support for the EX-AEC and EX-MOD EEC-4 card
2. Introduced multi-channel Peak Limiter block

## Software Updates:

1. Enhanced the Compressor block to support multiple channels and simplified mode of operation
2. Added support for asynchronous synchronization with explicit feedback to TesiraFORTÉ USB audio interface. This is now the default behavior, but can be disabled through the USB Input block property sheet
3. Added ability to disable the Telnet interface, which may be desired in some installations due to security concerns with Telnet protocol
4. Active call appearance is now highlighted to make it easier to recognize
5. Renames "Audio Failover" to "Analog Failover"
6. The Property Sheet fields for the AGC block now include the units
7. Added flow text support for the AEC Reference, AGC, ANC, and Delay blocksAEC Reference, AGC, ANC, and Delay blocks
8. SIP user names are now being validated as they are entered in Liner Properties. Illegal usernames will not be allowed.

## Firmware Updates:

1. Enhanced the Compressor block to support multiple channels and simplified mode of operation
2. Added support for asynchronous synchronization with explicit feedback to TesiraFORTÉ USB audio interface. This is now the default behavior, but can be disabled through the USB Input block property sheet
3. Changed USB Input block Host Master Volume maximum value from +12 to 0 dB
4. Added ability to disable the Telnet interface
5. Updated AVB firmware

## Resolved Software Issues:

1. Fixed a bug introduced in 2.0 that prevents some files from opening in some cases. Using 2.1 to open these files will fix the problem
2. Fixed a bug that could crash the software when more than two objects were selected with different pen widths and the user clicked the 'Pen Width' field in the property sheet

3. Fix a bug in FIR filters that could sometimes crash the software if a file with an extension other than .txt was opened
4. Fixed a bug that caused the 'Accept Compile Results' dialog to crash in some cases
5. Fixed a bug that added extra pixels to Source Selector
6. Fixed a bug that caused the Level control dialog to size incorrectly
7. Fixed a bug that caused the compile to fail if an ANC Input blocks was not fixed to a device
8. Fixed a bug in the TI transmit that did not correctly calculate DSP usage
9. Fixed a problem in global optimization which, when partition connectors were present, prevented a recompile from being done
10. Fixed a problem that prevented multi-partition layouts from compiling when a partition did not provide a full audio path
11. Addressed a problem where the addition of a Dialer in fixed mode could place the Dialer into a new TesiraFORTÉ incorrectly
12. Fixed a bug that caused the scroll bar to sometimes appear in the Meter's control dialog after disconnecting from a system
13. Fix a bug in Equalizers that changed the frequency settings for existing bands when adding a new band
14. Fixed a bug in VoIP dialer that prevented the incoming caller ID from being displayed
15. Fix a bug in the equipment table that disabled the Unit field in some cases.
16. Fixed the tab order in Dante initialization dialog
17. Corrected a problem where copy/paste made inter partition links invisible
18. Corrected an issue where the system status display sometimes did not update in a timely manner on a failover of a redundant server pair
19. The direct output channel levels and labels for the auto mixers now update the property sheet correctly
20. Fixed a bug that allowed duplicate Dante Input channel names in some cases
21. Fixed a bug that sometimes allowed duplicate Instance Tags
22. Fixed a bug in the compiler that would prevent the compiler from completing if an unconnected PCRx was in the layout
23. Fixed a bug that did not mark a layout as not compiled when partitions were linked together

### **Resolved Firmware Issues:**

1. Corrected audio distortions when using TesiraForte USB with Mac by virtue of change to asynchronous synchronization.
2. Stability and robustness enhancements to the USB implementation
3. Prevented issue that could result in some DSP-2 cards failing to boot after a firmware upgrade
4. Several minor SVC-2 enhancements, including:
  - Interoperability with Cisco Call Manager 10.0
  - IP Address conflict fault message now cleared
  - Failed DTMF negotiation
5. Corrected some security vulnerabilities in the operating environment, specifically as related to the Telnet server

6. Modified the Telnet server to detect connection of simple clients such as Crestron and suppress transmission of NULL pad bytes.
7. Stability and robustness enhancements to Audio and Logic Expander firmware including improved resilience to heavy network IP broadcast traffic.

## 2.0.1

**Released April 2014, firmware-only release, aligned with software release 2.0**

### **New Features:**

- No new features added in this release

### **Updates:**

- There are no updates

### **Resolved Firmware Issues:**

1. Corrected a bug in USB audio playback compensation which could result in audio pops and clicks being heard over USB inputs
2. Corrected a problem in which an AVB card which had been intentionally disabled using a TTP command would result in a reported fault
3. Fixed a problem in which a statically defined default gateway was not applied correctly

## 2.0

**Released April 2014**

### **Software Download Link:**

- [Download Tesira Software v2.0](#)
- [Download Canvas Software v2.0](#)

### **New Features:**

1. Support for TesiraFORTÉ
2. Support for Tesira SERVER redundancy
3. Support for the DAN-1 card

4. Support for Logic IO and VCB functionality on Tesira SERVER and SERVER IO back panel GPIO pins

## **Software Updates:**

1. Significantly improved handling of connector lines
2. Routers now support Input/output labels
3. Flow text from an AEC processing block is now allowedAEC processing block is now allowed
4. SIP uri and SIPS uri are now configurable
5. The Compilation Output window will always be displayed
6. There is now a short delay between selecting a chart point and being able to drag it to prevent inadvertent changes to the chart settings
7. Control dialog for Partition Connectors will now update when changes are made to partition block text, port text, or to a partition name
8. Logic Input and Logic Output blocks can now be allocated to Servers and TesiraFORTÉs
9. Added support for user defined ranges for Level values to additional blocks, including:
  1. Input
  2. Output
  3. CobraNet Input
  4. CobraNet Output
  5. AVB Input
  6. AVB Output
  7. AEC
  8. TI Receive
  9. TI Transmit
  10. VoIP Receive
  11. VoIP Transmit
  12. Dante Input
  13. Dante Output
  14. USB Input
  15. USB Output
  16. Crossover
  17. Ducker
  18. Tone Generator
  19. Noise Generator

## **Firmware Updates:**

1. Improved the response time of some dynamic audio processing blocks

2. Added fault detection and reporting for cooling fan malfunctions on SERVER and SERVER IO
3. Added non-volatile persistence to device maintenance features on EX-LOGIC. Serial port settings are now retained through power cycle
4. Calibrations on Logic and VC IO are now cleared when device is reset to factory settings
5. Tesira SERVER and SERVER IO devices which have no DSP cards installed now raise "No DSP cards found" fault.
6. Serial port TTP session will now prompt for a password immediately after a device is protected
7. Numerous SVC-2 enhancements, including
  - better operation in DHCP environments
  - improved handling of DNS requests
  - improved handling of session timer
  - more advanced detection and reporting of duplicate IP addresses.
  - achieved interoperability certification with Avaya Session Manager versions through 6.3
  - improved behavior of TTP subscriptions
8. NTP daemon only runs if NTP is enabled through Device Maintenance
9. GPIO ports on server network cards (SNC-1 and SNC-2) and TesiraFORTÉ are now operational
10. Various other performance improvements

## **Resolved Software Issues:**

1. Fixed a problem that prevented the ability to create multiple blocks using 'Shift-Click'
2. Improved the meter performance when there are multiple meters active in the layout
3. Corrected a problem with fine grain presets effecting All Pass Filters when the presets are created while online
4. Flowing text from logic ports is now handled correctly
5. The 'Current Gain Applied' meters will now continue to operate after the 'Channel Levels' dialog is closed. Previously this would interrupt the updates to the meters
6. All inputs are now turned on for N x 1 mixers
7. Fix a bug in Custom blocks so that DSP Resources are updated correctly when contents are modified
8. Partition Tab order is now persistent
9. Handling of out of range values is now more consistent for level settings
10. In control dialogs, the Min/Max for a Level will now respond correctly to Page Up and Page Down keys
11. Fixed a bug that allowed invalid connections to be made for signal paths that include AEC Reference blocks. Auto-mixers and other dynamic blocks are not allowed to be directly or indirectly connected to the output of the AEC Reference block
12. The TI Dialer 'Auto Answer' button is now active in minimized dialogs
13. Corrected condition on Fan-In OR Pulse blocks where an Undo may result in the number of visible ports not matching the number of actual channels
14. Fixed an issue that prevented fine grain presets for the 'Mute' attribute in a VoIP Receive block from working
15. Fixed a bug with the Ctrl-V (keyboard paste) that could cause some block/lines to lose alignment

16. The Ducker's 'Threshold' property can now be set in the Property Sheet, previously it was read only in the property sheet
17. Corrected a problem that allowed duplicate preset names which could cause the software to crash
18. AECAEC Input and AEC blocks will not be able to directly connect to another AEC Reference block in IAEC blocks will not be able to directly connect to another AEC Reference block in layouts created in 2.0 . If the layout is older, removing direct links between these blocks will result in the inability to relink them.

### **Resolved Firmware Issues:**

1. Calibrations on Logic and VC IO are now cleared when device is reset to factory settings
2. Ducker block logic outputs are no longer affected by Invert control when logic outputs are disabled
3. Gating Automixer block logic outputs now behave correctly with respect to "Logic Outputs Follow Mic Logic" feature
4. Serial port CommandString blocks no longer output when serial port usage is set to None or TTP
5. Changing time zone on a SERVER or SERVER IO now updates the device's time and date accordingly
6. Reversed the direction of the timeout settings on the SERVER and SERVER IO front panel so the up button increases the time and the down button decreases the time
7. "Unable to Communicate with DSP Card in slot" faults now report the slot number as it appears on the PCB silkscreen
8. Improved TTP subscription handling on TicontrolStatus (lineIntrusion and CallState) as well as Level, RoomCombiner, and GainSharingAutoMixer (level)

## **1.2.1**

### **Released October 2013**

#### **New Features:**

- No new features added in this release

#### **Firmware Updates:**

1. Improved automated testing of some IO cards at the factory

#### **Resolved Issues:**

1. Solved potential problem with Biamp Canvas refusing to load if the Tesira configuration file has partition connectors with duplicate instance tags as a result of cut/copy handling
2. Fixed an issue in Biamp Canvas that could result in meters not updating after partitions were created and later deleted

## 1.2.0

**Released August 2013**

### **Software Download Link:**

- [Download Tesira Software v1.2](#)

### **New Features:**

1. Added support for Biamp Canvas
2. Launched new licensing algorithm and Web portal
3. New Global Optimization function
4. New serial port features: both Serial1 and Serial2 on Server(IO) are now configurable for TTP input, control string output, both, or neither
5. Added the ability to disable the AVB card in a Server(IO). This allows multiple Server(IO) devices to participate on the same CobraNet network without relying on AVB for media clock synchronization.

### **Software Updates:**

1. Help file has been updated
2. License Information for GNU can now be retrieved from Device Information window
3. Improved the way Tesira software handles PC resources, making it more efficient to run
4. Improved compilation time of complex logic designs
5. CDI files are stored when the tmf document is stored, and not just when it is closed
6. Created System menu, hosting start/stop audio, Partitions, Network, and Security settings, as well as Equipment Table and Delay Equalization Groups
7. Software now provides a warning message if trying to send a configuration to a system running older firmware
8. Serial Command String block now allows selection of which serial port to use
9. Added support for advanced parameters for AEC, AND and Automixer's Edit Block Parameters preset windowAEC, AND and Automixer's Edit Block Parameters preset window
10. Extended VoIP Local Dial Plan field to 256 characters
11. Bring to Front and Send to Back functions now have key shortcuts (Ctrl+F and Ctrl+B)
12. Adjusted some default AEC Noise Reduction settings so that the function performs betterAEC Noise Reduction settings so that the function performs better

### **Firmware Updates:**

1. Reset button now works regardless of the state of firmware, even if in error state



2. Added "gateway" to the TTP response for "DEVICE get networkStatus".
3. Improved responsiveness of network status icon on front panel display
4. Updated SVC-2 with general improvements and enhanced 3rd party interoperability
5. Significant performance improvements for logic signal handling and propagation
6. Improved Line Echo Cancelation on STC-2
7. STC-2 received audio is no longer ducked during delayed dialing
8. STC-2 no longer hangs up if Wait For Dial Tone is enabled and a valid dial tone isn't recognized. This change is made so that STC-2 behaves the same as the TI-2
9. Improved AEC Noise Reduction performance - particularly when using microphones with high background noise - for example ceiling microphones
10. Servers and Servers IO have improved recovery if a configuration upload fails

### **Resolved Software Issues:**

1. Resolved problem that could result in Tesira software crashing when an Uber filter was deleted
2. Resolved problem that could result in Tesira software crashing when a via block was used but no valid audio path was connected to output blocks
3. Fixed problem that could result in Tesira software crashing when trying to copy/paste blocks into locked or invisible Layers
4. Prevented a situation that could result in Tesira software crashing if invalid data was entered by the user as destination printer and the Print function was used
5. Fixed propagation delay reporting for Custom Block, Split Pass Through and Partition Connector blocks.
6. Fixed problem that could result in "Sequence contains more than one matching element" being reported when compiling if some blocks had been deleted and replaced in a specific manner
7. Fixed problem that could result in "Sequence contains more than one matching element" being reported when compiling if some AEC or ANC blocks were left disconnected
8. Fixed problem that could result in "Sequence contains no matching element" being reported when compiling if an AEC input block is connected to an output but the AEC processing and reference blocks are not in a valid audio path
9. Ignored AEC blocks now reported correctly in Output Window
10. Fixed problem that could result in presets containing ANC blocks being corrupted if Select Block Attributes was used
11. Fixed problem that could occasionally result in firmware update not being performed on all selected devices
12. Resolved issue that could result in Filter Type and Locked column settings not being transferred between Uber Filters when using the Copy/Paste DSP Data function
13. Fixed a problem that could result in some Advanced parameters not updating correctly on gating Auto Mixers when recalled via preset
14. Tesira software now correctly allows blocks and their lines to be dragged and dropped between instances of the software
15. Fixed issue that could result in blocks being ignored if connected to Logic and Audio Pass through

16. Resolved problem that could result in being unable to delete lines on some layouts
17. Resolved issue that could result in an Observer user to have its mouse trapped if attempting to edit blocks with charts, like EQs or Filters
18. Fixed problem that could result in some Partition Connector mappings being displayed incorrectly if used to connect between Automixers and Combiners
19. Prevented software from displaying propagation delay data for some logic connectors on some audio blocks
20. Fixed the ERLE meter on an AEC block so it's now the same size as the other metersAEC block so it's now the same size as the other meters
21. Fixed problem that could result in the AGC Advanced control dialog to display incorrectly
22. AECAEC meters now reset correctly to default value after software disconnects from system
23. Resolved problem that could result in Device IO data displaying as ?? on AEC and ANC dialogs after a preset containing those blocks was recalledAEC and ANC dialogs after a preset containing those blocks was recalled
24. Fixed problem that could result in being unable to select Telephone as AEC Conferring mode if the mode had been changed multiple times alreadyAEC Conferring mode if the mode had been changed multiple times already
25. Room Group is now displayed as an option in Select Block Attributes window for Room Combiners
26. Prevented software from allowing invalid selection of serial port for Expanders on Command String block

#### **Resolved Firmware Issues:**

1. Eliminated gating effect on the outputs which was noticeable in some circumstances
2. Prevented a problem that could result in Gateway information not correctly displayed in Device Network Settings
3. Fixed issue that could result in some control input not functioning on mute blocks if not all control inputs were connected
4. Prevented a situation that could lead to some control labels on a TEC-1 not being visible if left unconfigured
5. Multiple simultaneous preset recall requests are now handled by multi-device systems
6. Fixed numerous other internal issues and provided many stability enhancements.

### **1.1.3**

**Released May 2013, firmware-only release**

#### **New Features:**

- No new features added in this release

#### **Firmware Updates:**

1. Made enhancements for improved internal communication on Server/Server IO, and between Server/Server IO and expanders

## **Resolved Firmware Issues:**

1. Resolved potential DHCP problems with SVC-2 on some network switches
2. Resolved problems that could cause AVB audio to sound distorted
3. Fixed situation that could result in the AVB-1 card becoming unresponsive
4. Prevented problem that could result in a unit failing to load its configuration data after a firmware update was done on a configured system
5. Fixed several other internal issues

## **1.1.2**

**Released March 2013**

## **New Features:**

- No new features added in this release

## **Software Updates:**

1. SVC-2 IP configuration now allows subnet masks with non-zero fourth octet
2. Removed (Microsoft) Lync from the VoIP Proxy Vendor List as it isn't supported
3. The CDI file is now saved every time the user saves the configuration (tmf) file
4. Further improvements to the way the Compiler adds hardware to a configuration

## **Firmware Updates:**

1. Updated SVC-2 with general improvements and enhanced third party interoperability
2. Improved robustness of control port on Server and Server IO to heavy UDP traffic
3. Uploading potentially damaging firmware version on a unit is prevented by imposing a minimum criteria before an update

## **Resolved Firmware Issues:**

1. Including a password protected custom block in a preset no longer causes a crash during system configuration
2. Repaired problem that could cause Tesira software to crash when opening configuration files created with a newer version of the software
3. Clicking on the Set All button on the Pre/Post NOM channel setting window on a Gating Automixer with Direct Outs no longer causes a software crash

4. Changing the block color of a custom block no longer prevents the configuration file from opening
5. Fixed problem that could result in unexpected disconnection if connecting through a VPN
6. Fixed issue that would result in the DSP Usage not always being retained if set as conservative
7. Output block channel ordering now follows the same logic regardless of whether a serial number has been added to the Equipment able or not
8. Fixed problem that could result in "Object reference not set to an instance of an object" being reported when compiling if a large mixer was connected directly to ANC processing input port
9. Fixed problem that could result in "Object reference not set to an instance of an object" being reported when compiling if a Gating Auto Mixer with large number of direct outputs was included in the layout
10. Fixed problem that could result in "Could not break up a big (auto)mixer. Unable to complete DSP assignment for the unit allocation in position 1. No solution to the assignment problem found." when compiling if a mixer have between 198 and 211 channels

### **Resolved Software Issues:**

1. Fixed numerous other internal issues and provided many stability enhancements

## **1.1.1**

**Released November 2012, firmware-only release**

### **New Features:**

- No new features added in this release

### **Updates:**

- No updates added in this release

### **Resolved Firmware Issues:**

1. Fixed a problem in which some settings specified in initial configuration, power-up configuration, or presets to non-default values are not actually applied to AEC or ANC Inputs, TI Receive and TI TransmitAEC or ANC Inputs, TI Receive and TI Transmit
2. Fixed other internal issues

## **1.1.0**

**Released October 2012**

## Software Download Link:

- [Download Tesira Software v1.1](#)

## New Features:

1. Added support for TEC-1
2. Added BUFFER logic gate.

## Software Updates:

1. Help file has been updated
2. Instance Tags of blocks are now displayed in the Status bar whenever the block is selected. This feature works both off- and online.
3. Processing Library now allows adding blocks even if no Catalogs exist
4. Preset names are now allowed to contain characters that are not valid in XML, like '&' or characters with umlaut.
5. AVB links are now also displayed in dotted-blue (default) when going through Via blocks
6. Improved the way the compiler handles inputs and outputs added to a design that had been compiled already, resulting in better hardware allocation.
7. The Transfer Function block is now able to compute propagation delay even if the reference port is the output node of an audio Split Pass Through block
8. Improved response on Comp/Limiter graph when multiple knees are used
9. Object ID Inspector is now available when online

## Firmware Updates:

1. Made significant general performance improvements
2. Server and Server IO now always report a fault if another device in the same system goes offline
3. Improved responsiveness of Peak meters
4. Improved SVC-2 third party interoperability

## Resolved Software Issues:

1. Software no longer crashes when compiling layout with many EX-Mods and a large mixer
2. Fixed problem in compiler that will result in "The given key was not present in the dictionary" error message when units are removed from Equipment Table.
3. Fixed problem in compiler that will result in "The given key was not present in the dictionary" error message if after a compilation a block controlled by a Voltage Control channel ends up being assigned to a new unit
4. Tesira software no longer crashes after a click on 'Line Properties' in the property sheet of a VOIP Control Status

block

5. Deleting copied Split Pass Through block no longer causes a serious error being reported
6. Fixed a problem that could result in software crashing during compilation after Delay Equalization mode was changed in Document Settings, General Settings.
7. Prevented software from crashing if an audio Split Pass Through block is reduced in size such that connected port is removed
8. Tesira software no longer crashes if the print function is used on a PC with no printers installed
9. Prevented software crash when using the Active band drop-down menu on an All Pass Filter block after various drag points have been selected.
10. IP address now showing up correctly every time in remote device maintenance dialog
11. Prevented remote expanders from rebooting unnecessarily if their Network Settings window was accessed but nothing that required a reboot was changed
12. Adding a Text block to a compiled partition no longer requires the partition to re-compile before sending configuration.
13. Export to DXF function no longer ignores blocks inside Custom Blocks if they are in expanded view when the export is done.
14. Adding blocks to the Processing Library no longer resets their Delay Equalization group membership to default
15. Removed the Print Scale property from Partition Properties window as this is not a valid option.
16. Fixed the "locked layer" icon so it shows correct status of layer after a reboot.
17. Presets with only a few attributes of a Control Voltage block selected can now be sent to a device without errors.
18. Preset Buttons are now listed as unacceptable blocks in a Custom Block. Previously, the blocks weren't listed, but since they aren't permitted in Custom clocks, trying to add them would result in an unclear error message.
19. Removing an item from TEC-1 block and then undoing the delete won't break presets containing the TEC-1 anymore.
20. Text on blocks will not be reset to default if Edit Block Parameter changes are made on the block.
21. When duplicating a block, the Fixed in Unit setting is no longer resetting
22. Fixed Paste DSP Data function from a Feedback Suppressor to a Parametric EQ
23. Copy/Paste DSP menu option in the room combiner is now disabled, as the block doesn't support this function
24. Cut and Paste operations on a DTMF decode button now work correctly, no longer creating a new block.
25. Fixed logic simulation for multi-channel NOT blocks
26. Fixed problem preventing Signal Present LED from working correctly on some type of signals when the control dialog of the block was maximized
27. Fixed inconsistency between software and TTP VoIP Control/Status - VAD Threshold maximum setting
28. When duplicating custom blocks protected with password, the new instance of the custom block can now have their passwords changed
29. Added "No delay information available" on the status bar when signal coming from a Via block is selected.
30. The Uber Filter block now correctly flows port text from input to output.
31. Corrected problem that could result in the filter slope column to temporarily go blank on an Uber Filter block
32. Entries for Level Out settings in the property sheet of a Room Combiner block are no longer allowed to be outside the min-max range.
33. Room Combiner's settings now always work correctly even if the room controlled isn't assigned to a group

34. Min and Max Compensation limits on an ANC block now work as expected every time
35. Fixed a problem resulting on the ANC meters being stuck at minimum values under certain circumstances despite the block being used.
36. Crossover port labels are now always correct even if changes are applied to the block using Edit Block Parameters menu
37. The Active band drop-down menu on an All Pass Filter block now updates correctly is more bands are added through TTP
38. Prevented issue that resulted in Propagation Delay being incorrectly calculated on some Automixer outputs
39. The following problems have been resolved in the Comp/Limiter block:
  - Tab order is now correct
  - Graph changes no longer break the undo/redo queue
  - Fixed problem that could result in two undo's required to see one event change in the control dialog
  - Stopped knees from jumping when thresholds are set too close together
  - Parameters of a Comp/Limiter block with only one knee are no longer limited too conservatively
  - Changing a threshold value no longer automatically changes the compression ratio
  - Prevented the compression curve breaking when changes are applied to the soft knee radius
  - The down arrow on the Threshold field now works correctly

## **Resolved Firmware Issues:**

1. Prevented a situation that could result in a failed firmware upgrade being reported as successful
2. Fixed potential loss of persistent data (serial port settings, time zone, passwords, etc.) when updating firmware using the Restore version
3. Prevented problem that could result in various error messages being reported if a preset was recalled externally while a preset's name was edited with Tesira software
4. Reset/Initialize function now also removes SESSION aliases from memory
5. Prevented problem that could result in TTP subscriptions to peak meters and levels returning duplicate data
6. Fixed problem that could result in a Preset Button block in a protected system unable to recall presets
7. Prevented audio expanders from occasionally falsely reporting a major fault after power on
8. Fixed numerous other internal issues and provided many stability enhancements

## **1.0.4**

### **Released August 2012, firmware-only release**

## **New Features:**

- No new features added in this release

## **Updates:**

- No updates added in this release

## **Resolved Firmware Issues:**

1. Fixed occasional problems when updating only some (or one) partition on multi-partition systems that included audio expanders
2. Fixed various other internal issues

# **1.0.3**

**Released July 2012, firmware-only release**

## **New Features:**

- No new features added in this release

## **Firmware Updates:**

1. Added support for improved Comp Limiter control dialog behavior in Tesira Software
2. If configured for DHCP, Expanders now provide their hostname to the DHCP server
3. Improved AVB reliability and functionality, particularly with many streams
4. Improved communication between devices
5. Improved behavior of SVC-2

## **Resolved Firmware Issues:**

1. Fixed problems in AEC and ANC cards which caused them to sometimes fail to process all channels
2. Fixed various audio problems when audio passed between partitions or fanned out within a Tesira device
3. Fixed problem that could result in a single AEC processing output channel appearing to be mutedAEC processing output channel appearing to be muted
4. Fixed a problem that could result in a VoIP conference run by the SVC-2 to be interrupted if the remote phone put the call on hold and then resumed
5. Fixed a problem that could result in a peak meter not displaying correctly in software of it had received a TTP Subscription which was subsequently canceled
6. Fixed a problem that could result in STC-2 hook flash duration not being properly accepted if set via TTP
7. Prevented problem that could result in corrupted audio when signal was send from one block's output node to



multiple input nodes (fan out)

8. Fixed various other internal issues

## 1.0.1

**Released July 2012**

**Software Download Link:**

- [Download Tesira Software v1.0.1](#)

**New Features:**

- No new features added in this release

**Software Updates:**

1. Help file has been updated
2. Improved graphical interface of Comp/Limiter block
3. Made improvements to the way Delay Equalization is reported and implemented

**Resolved Software Issues:**

1. Prevented software from occasional crashes when working with Edit Block Parameters
2. Prevented software from crashing occasionally when sending configuration after some partitions were deleted
3. Fixed software hanging when connecting to a device that was recently powered up
4. Prevented software from giving serious error and restarting if an Undo was done after an Edit Block Parameters operation was done to an Uber Filter
5. Stopped software from crashing when a Preset containing a Gain Sharing Automixer was recalled, if the Gain Sharing Automixer had its Direct Outputs enabled after the preset was created.
6. Fixed problem resulting in the inability to delete or move lines after copy-paste from an online layout
7. Prevent Feedback Suppressors from resetting bands when control dialog is closed
8. Fixed problem preventing fine-grained presets containing the Dialer block from working while online
9. Fixed problem resulting in the Country field on VOIP DSP Properties to always show USA even when other Country is specified.
10. Fixed problem preventing the Dialer dialog from opening if it was minimized when software disconnected from system
11. Made the Object ID Inspector to refresh contents properly
12. Prevented blocks from resetting their port properties on certain situations

13. Made spacing and text on Room Combiner block persistent
14. Prevented presets that had only a few attributes of a block selected from being removed if the related block parameters were changed after the preset was created.
15. Prevented the Select Block Attributes window of an AEC block from displaying values which are unavailable to the user  
AEC block from displaying values which are unavailable to the user
16. ANC meters now reset after disconnecting from the system
17. Corrected error that could lead to some Current Gain Applied meters on a Gain Sharing Automixer not updating properly.

### **Resolved Firmware Issues:**

1. Corrected a problem in AEC and ANC cards which caused them to sometimes fail to process all channels.  
AEC and ANC cards which caused them to sometimes fail to process all channels.

## **1.0 Update 1**

**Released May 2012, software-only update**

### **Software Download Link:**

- [Download Tesira Software v1.0](#)

### **New Features:**

- No new features added in this release

### **Updates:**

- There are no updates

### **Resolved Software Issues:**

- Fixed the way licensing timeout was calculated

## **1.0**

**First public release, May 2012**

### **Software Download Link:**

- [Download Tesira Software v1.0](#)

## Biamp Canvas

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### 3.1+

For all Canvas releases 3.1 and above, Canvas maintains compatibility with the corresponding Tesira release version and any relevant Canvas release notes will be included in the [Tesira release notes](#).

### 3.0

Released July 2017, requires Tesira software 3.0 or later and Tesira firmware 3.0 or later

#### New Features:

No new features added in this release

#### Updates:

1. The dialog message when an unsupported block is pasted into a Biamp Canvas layout now provides more information.

#### Resolved Issues:

1. Corrected an issue that disabled the tool bar buttons for Static and Picture controls.

### 2.6

Released September 2016, requires Tesira software 2.6 or later and Tesira firmware 2.6 or later

#### New Features:

No new features added in this release

#### Updates:

No updates added in this release

### **Resolved Issues:**

1. Users can now specify the correct channel for the Lox Cut filter in the Dante Mic assigned to an LED.
2. Resolved an issue that could result in some users with Observer privileges encountering mouse capture with charts.
3. Speed dial entries will now correctly observe the new rules added to Tesira.

## **2.5.1**

**Released July 2016, requires Tesira software 2.5 or later and Tesira firmware 2.5 or later**

### **New Features:**

1. Added support for AMP-4175R, AMP-4300R CV, AMP-4350R and AMP8175R Tesira amplifiers.
2. Added support for D series Lab.Gruppen Tesira amplifier.

### **Updates:**

1. The 'Do Not Disturb' button has been added for VoIP Dialers.
2. The 'Auto Answer' button for TI Dialers is now optional.
3. Gain Reduction meters can now be assigned to Leveler, Compressor, and Noise Gate blocks.
4. The Dante ATND8677 microphone is now fully supported.
5. The Biamp Canvas installer no longer imposes a 1024 x 768 limit on the screen size.

### **Resolved Issues:**

1. The 'Conference' button for VoIP Dialers is now working correctly.
2. Meters assigned to Leveler blocks now update properly.
3. The input range for the standard version of Compressor blocks is correctly applied.
4. Disabled controls are now displayed properly when the user is running at a lower access level.

## **2.5**

**Released June 2016, requires Tesira software 2.5 or later and Tesira firmware 2.5 or later**

### **Updates:**

1. No changes were made in this release. Biamp Canvas version number was updated to match current Tesira software/firmware version number.

## 2.3

**Released December 2014, requires Tesira software 2.3 or later and Tesira firmware 2.3 or later**

### **New Features:**

1. Added support for AVB 1722.1. Explicit AVB blocks are now available for sending and receiving AVB audio to and from other 1722.1 compliant devices.
2. Added support for Audio Technica ATND971 Dante microphone and ATND8677 Dante microphone stand

### **Updates:**

1. The User will now be warned when the connection to a large layout exhausts the available resources and can cause unexpected behavior in the UI.

### **Resolved Issues:**

1. Corrected a problem where meters will randomly show bad values in large layouts.
2. Fixed problem that prevented the 'Use Local Surface' option for Auto-connect be specified unless a control surface file had been selected.

## 2.2

**Released September 2014, requires Tesira software 2.2 or later and Tesira firmware 2.2 or later**

### **New Features:**

- No new features added in this release

### **Updates:**

- No updates added in this release

### **Resolved Issues:**

1. Corrected an issue in which an online, logged-out system layout does not allow user account creation/editing.
2. Corrected an issue in which user accounts may become invalid after editing.
3. Corrected an issue in which user accounts are unable to be updated when offline.

## 2.1

**Released June 2014, requires Tesira software 2.1 or later and Tesira firmware 2.1 or later**

### **New Features:**

- No new features added in this release

### **Updates:**

- No updates added in this release

### **Resolved Issues:**

1. The Zoom In/Out direction for the mouse wheel now matches the direction for Tesira
2. Improved the VoIP dialer so that you can easily see the Active Call Appearance
3. Fixed a problem with the line display name for the VoIP dialer which caused the wrong display name to appear

## 2.0.1

**Released April 2014, requires Tesira software 2.0 or later and Tesira firmware 2.0 or later**

### **New Features:**

- No new features added in this release

### **Updates:**

- No updates added in this release

### **Resolved Issues:**

1. Fixed a bug that prevented meters from working in Biamp Canvas when the first partition in Tesira is deleted

## 2.0

**Released April 2014, requires Tesira software 2.0 or later and Tesira firmware 2.0 or later**

**New Features:**

1. Support for TesiraFORTÉ
2. Support for Tesira SERVER redundancy

**Updates:**

1. Added transparent background color for 'Text' blocks

**Resolved Issues:**

1. Fixed a bug that prevented the 'Use Local Surface' option in the Tools/Options 'Auto-Connect' from working
2. Fixed problem that prevented Preset names from being saved when using LEDs in Biamp Canvas to track the last recalled preset by name
3. Corrected a problem with fader controls for the Parametric Equalizer that only applied range settings to the first band
4. Range settings for shelf filters used in an Uber filter are now correct
5. Fixed a problem with the 'Dial' button for TI Dialer controls that caused a crash the software when modified in the property sheet
6. I Dialer's Auto-Answer button is will now update correctly when changed in specially minimized dialog

# 1.0

**Released October 2013, requires Tesira software 1.2 or later and Tesira firmware 1.2 or later**