XILICA

Xilica System Software Change History

Release 4.1.0 (24th Aug, 2020)

Supported Device Firmware Version:

- Solaro DSP   V4.1.0
- XTouch Control   V4.1.0
- XWP-CTL   V4.1.0
- Neutrino/Uno   V5.4.3
- NeutrinoAEC/Uno AEC/Rio   V5.4.3
- NeuPanel Mini   V5.3.5
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3

New Features:

- Added Lua Device Driver Builder in Xilica Designer, allowing for custom driver development (or extension of official device drivers) using the Lua scripting language. Users can also export the custom build drivers.
- Support for Lua device control elements in the following control devices:
    o XWP-CTRL
    o XTouch and XTouchApp
    o Solaro DSP project controller
- Support for the following USB I/O card advanced parameter settings:
    o Gain setting from connected computer host
    o Mute setting from connected computer host
    o Configuration of the USB I/O card for AEC enable/disable
- Support added for network-based Solaro DSP main board BIOS upgrade. USB connection for main board BIOS upgrade is no longer required. A single firmware file now includes both CPU firmware and main board BIOS and can be upgraded to the device simultaneously.
- Support added for network-based Solaro DSP front panel and I/O card BIOS upgrade. USB connection to front panel and IO card BIOS upgrade is no longer required.
- Added a network search feature to locate and enable remote access, configuration and control of Xilica devices across LAN segments.
- Addition of a control interface password for XWP-CTRL. A password must be entered before access is granted to the control parameters of XWP.

New Enhancements:

- Updated the project file backup process. In the previous version, the project file is saved to all DSP devices within the project. Going forward, only the backup of

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the project file is saved to the device with the project scheduler enabled, thus improving overall project loading performance.
- When performing firmware updates, the firmware file signature will be checked to ensure the correct firmware file is selected for the targeted device.
- When opening and saving files, the last used file directory will be used as the starting point for file selection.
- Removed various unused 3rd party devices from Xilica Designer.
- Now supports display of the DSP device current clock in the Network Tab of the Device Setup Dialog in Xilica Designer.
- Enhanced the Gain Sharing Auto Mixer module in the DSP algorithm. Both Post-Mix mute and Pre-Mix mute are now supported for the input mute of the module.
- Enhanced the radio button UI object to support an override label enabling custom naming of the radio button text.
- Enhanced XTouch application setting page UI design.
- XTouch now supports page timeout, returning to Home (1st page) page after the timeout occurs.
- XTouch now supports the option to disable screen display menu in the menu bar.

Bug Fixes:

- Resolved Australia Day Light Saving time scheduler issue.
- Fixed the 3rd party control protocol issue that caused the REFRESH command to not show the current value of control parameters. This bug occurs when a preset was recalled and the REFRESH command did not report the value changed by the preset recall.
- Fixed 3rd party control button test dialog data area that incorrectly highlighted the read back message.
- Fixed Xilica Designer crash bug when the detected device xml file is empty.
- Fixed the project controller Binary data extractor variable length module issue that resulted in the value being incorrectly passed to the module when the termination byte is changed in ONLINE mode.
- Fixed the Radio Button DSP module control panel to only display the number of available radio button options, instead of showing all 64 selections as in previous version.

Known Issues:

- When converting from a NeuConsole project file to Xilica Designer and the project file is password protected, the project file cannot be opened in Xilica

Designer. As a workaround, remove password protection for the project file using NeuConsole before converting the file to for Xilica Designer use.

- When opening a Solaro device for control in Network view, the preset trigger module configuration is not properly represented in the control panel (the control panel will always indicate preset trigger disabled).

- When switching a Solaro DSP device from 48K to 96K sampling rate (or vice versa), the number of Dante I/O displayed in Dante View will not update to the new I/O configuration. Restart Xilica Designer to obtain the new Dante I/O configuration.

Release 4.0.1 (7th Mar, 2020)

A patch version fixed a potential critical crashing bug for Xilica Designer when trying to load a project with multiple Solaro DSP devices.

Bug Fix:

- Fix potential crashing bug for Xilica Designer when trying to go ONLINE for projects with multiple Solaro DSP devices in the project.

Release 4.0.0 (10th Feb, 2020)

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***                    !!!!!! IMPORTANT INFORMATION !!!!!              ***
***   Xilica Designer Release 4.0.0 is an important release that includes performance   ***
***   improvement over previous release. This release would require you to upgrade your   ***
***   Solaro DSP device to Firmware version 4.0.0 as well.              ***
***   To get full benefit of Solaro DSP device performance improvement we also   ***
***   recommand you to upgrade Solaro QR1/FR1 Main Board BIOS File as well.   ***
***                                                                     ***
***   IF YOU DO NOT intend to upgrade Solaro DSP device firmware, you may need to stay   ***
***   with older version of Xilica Designer.                            ***
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Supported Device Firmware Version:

- Neutrino/Uno   V5.4.3
- NeutrionAEC/Uno AEC/Rio   V5.4.3
- Solaro DSP   V3.6.1
- NeuPanel Mini   V5.3.5
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V4.0.0
- XWP-CTL   V2.0.0

New Features:

- Support Lua scripting language on Controller within Solaro DSP
- Support new IO cards for Solaro platform
    - 2 channels Relay Output card
- Support new universal control devices
    - Australian Monitor Monitor Amplifier, IS2120/IS2250P, IS4120/IS4250P.
    - Williams AV, Blue Pod Solo

New Enhancements:

- Improve performance on projects with large number of control panels and XWP.
- Enhance project loading performance by zipping the project backfile before storing it to the DSP processor.

- Add in more font size selection option to Xilica Designer Preference look and feel setting to fine turn the font size. Add in options are Huge, Extra Large, Large, Normal, Medium, Small.
- Support Label, Rectangle, Line, Ellipse drawing objects in DSP schematic and controller design schematic.
- Check Solaro DSP main board BIOS version and place warning message in Device Setup dialog to warn user to upgrade main board BIOS. For old BIOS, some new IO cards may not function.
- When trying to flash the front panel of a control panel, now warning message has been removed and will flash the device immediately
- Control panel window will be moved to top when elements within the control panel is being selected.

Bug Fix:

- Fix crashing bug for project controller running inside Solaro DSP. When using the binary or numeric input selector, it may cause project controller to stop functioning.
- Fix Solaro DSP device scheduler not able to function after Solaro device rebooted
- Fix Solaro DSP device preset recall cannot be triggered multiple times. Need to switch to a different preset first before it can issue the same preset again.
- Fix option menu selection item display order to make smaller item on top and larger item at selection bottom.
- Fix XWP crashing bug when using very old version of Xilica Designer to load in design to XWP.
- Fixed sometimes control parameters being grey out in Project Controller editor.
- Fixed controller parameter values not read back to project file when go from ONLINE back to OFFLINE.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control

panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.
-   When switching Solaro DSP device from 48K to 96K sampling rate (or vice versa), the number of Dante IO displayed in Dante View will not be updated to the new IO configuration. User need to restart Xilica Designer to obtain the new Dante I/O configuration.

Release 3.6.0 (1st Aug, 2019)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V3.4.0
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V3.6.0
- XWP-CTL   V1.0.3

New Features:

- Support Network GPIO (logic and voltage) transfer among Solaro DSP and XIO devices.
- Support new universal control devices
  - PTZ Optics 20x NDI | HX conferencing camera

New Enhancements:

- Support Advance mode in XWP-Control to allow user to define control items that only available under Advance operating mode (which usually is password protected mode). User can switch XWP-Control into "Normal" or "Advance" mode. In Advance mode operation, all items defined will be displayed for end user. While in Normal mode operation, only non-advance item will be displayed.
- Able to adjust the number of Dante I/O points to be display
- Support display of Front panel BIOS version in XilicaDesigner.
- Enhanced DSP module Matrix Mixer to use less MIPs.
- Add in more screen off timeout setting in XTouch application, including an option to never turn off screen.
- Add in new function to clear all DSP design template cached files. When there are changes made in older DSP design template on Web site. Xilica Designer is not able to detect that there is new updated. User need to use this Clear all DSP Design Template button to remove local cache files. After that user can re-download the latest template from web site.

Bug Fix:

- Fix XWP Device mapping menu not showing up when there is no device detected in Network view.
- Fix schematic design scrolling performance in Mac environment when using mouse wheel to scroll.
- Fix custom FIR filter not working in second core of DSP. If you place a lot of custom FIR filters in your schematic and some FIR filters need to be handled by second core, then those assigned to second core does not work. This release fixed this issue.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.5.0 (28 May, 2019)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V3.3.1
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V3.5.0
- XWP-CTL   V1.0.0

New Features:

- Support new universal control devices
  - Atterotech UND6IO
  - Atterotech UND6IO_BT
  - TASCAM generic Telnet protocol
  - NETIO 4C Smart PDU
  - KMTronic 8 channels Relay Box
- Support use of AES/EBU and USB audio card in Solaro devices.
- Add in more control module to Solaro Controller
  - Logic Flip-Flop (persistent)
  - Logic data persistent storage
  - Numeric data persistent storage
  - Binary data persistent storage

New Enhancements:

- Support editing and control panel zoom short cut keys. (Ctrl-mouse wheel and Command-mouse wheel)
- Change module channel label font to be a little bit bigger.
- Support new Dante API V4, add in capability to change Dante device network interface at Dante View.
- For XTouchApp running on Mac and PC, it will remember the last used IP interface and will not ask user to re-select the interface to use. It will also restore last used window size during startup.
- Support mixing of X2 and Solaro devices in Solaro projects

Bug Fix:

- Fixed various 3rd party control protocol bug in Solaro device. Making Solaro device 3rd party control protocol similar to Neutrino device 3rd party control protocol.
- Fixed Room Combiner background music not showing when not connected to external meter.
- Fixed Controller UI Radio button output value not updated when radio button being pressed.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.4.0 (28 Jan, 2019)

<u>Supported Device Firmware Version:</u>

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V3.2.0
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V3.4.0
- XWP-CTL   V1.0.0

<u>New Features:</u>

- Support more DSP processing modules
    o Standard FIR filter
    o Custom coefficient FIR filter – with custom loadable coefficient
    o Control Range Scaler – for converting control value to a different range
    o Control Log to Linear Convertor – Change from Log scale to Linear scale
    o Control Linear to Log Convertor – Change from Linear scale to Log scale
- Support DSP design template selection when creating new device. This will enable user to start their audio system design based on some pre-defined templates. Some pre-defined design can also support default control panel design. After load in the DSP template, user can use XTouchApp to connect to the DSP device to start control the DSP processor with the default control panel.
- Support import of DSP design template to DSP devices.

<u>New Enhancements:</u>

- Support new universal control devices
    o Powersoft Quattrocanali
    o Kramer VP-440H2
    o Kramer VP444
    o Kramer VP553
    o Kramer VP558
    o Kramer VP771
    o Kramer VP773A
    o Kramer VP778
    o Visual Production Cuety lighting control device.
    o Support Generic VISCA PTZ camera control.
    o Support Generic PELCO-D PTZ camera control.

- o Support Aver PTZ310 and PTZ330 PTZ camera control.
- Provided option to skip Dante configuration to devices and allow user to use Audinate Dante Controller to configure Dante connection. The Go Online dialog will ask user whether they want to load in Dante configuration using Xilica Designer software or NOT.
- Allow user to change preset in Project view online mode even if some of the DSP devices is NOT mapped. This will allow all mapped and online DSP to activate preset in Xilica Designer.
- When synchronizing the clock of Solaro device, we will always reset the device. A dialog will be provided to ask you whether you want to sync clock and reset device.
- Add in more controller processing module for Solaro Project Controller.
    - o Logic Trigger Queue – Provide a module to store edge trigging event from inputs and sequentially pass it to output pin.
    - o Logic Flickering Filter – Provide a filter mechanism to stop unnecessary binary state change processing if a input flicking. A delay can be set to filter out unnecessary state change.
    - o Enhanced Binary Data Extractor (variable length) module to support multiple segment extraction and support both fixed and variable length extraction.

Bug Fix:

- Fix Xilica Designer 3rd party control button bug when trying to send string data with double quote character ". When transferring this button design to XTouch, it will not be able to properly interpret this special character.
- Fix Solaro DSP device 3rd party control protocol server end idle timeout value from 10 seconds to 60 seconds. 60 seconds is what the document described.
- Fix 3rd party control button periodic read flag not saved properly to project XML file.
- Fix Xilica Designer crash after removed offline device from network view and then system re-detect the same device. System will crash if you try to control this re-detected device.
- Fix bug on license install file name validation. In older version it checked the whole filename full path to validate that the filename is in the correct format. This may create issue if any of your directory contains special characters such as "(" or ")". This bug is now fixed and only validate the filename excluding the directory name.
- Fix bug on Control Fader DSP module and Logic Radio button module not responding to user input for Solaro DSP device.

- Fix wiring position not correct when trying to connect more than 10 lines to a module. Now the limit has been increased to 32 before it stop trying to locate the best position for line.
- Fix bug on Solaro Device plug in card IO naming not changed when the IO card type has been changed. (i.e. when changing form Analog input to AES/EBU input, the input pin label should change accordingly)
- Fix bug for Neutrino Mini series control not able to send control commands to multiple devices if user defined control to more than one device in a project.
- Fix Solaro device fixed IP setting being clear (restore back to DHCP mode), after loading design to device.
- Fix bug on search feature of system component library which will result in unavailable device model and cause Xilica Designer to crash.
- Fix bug in XTouchApp that control object occasionally grey out when download design from Solaro DSP device.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.3.1 (17 Oct, 2018)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V3.0.0
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V3.3.0

Bug Fix:

- Fix Xilica Designer bug which causes wiring in project overview for 'User Defined Device' and 'User Defined Dante Enabled Device' cannot be saved. After re-open the saved project file, these wiring will not be displayed.
- Fix Xilica Designer bug which causes Chinese language not displayed properly.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.3.0 (24 Sept, 2018)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V3.0.0
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V3.3.0

New Features:

- Support Xilica 3rd party control protocol in Solaro DSP processor. User can now define up to 1000 control object string for 3rd party controller to control Solaro DSP device parameters.

New Enhancements:

- Support password protection when trying to load in panel config within XTouch application. User can define such password in Xilica Designer to avoid unauthorized access to panel pages.
- Add in new UI components.
  - o Add in momentary ON/OFF push button as a new button type. This UI object will go to ON state when user press down the button. It will remain as ON state as long as user is holding the button. Once the button is released, the button state will become OFF. The button also supports minimum action duration (default is 50ms). User can also configure the button to send out repeat action as long as user is holding on the button.
  - o Add in radio button support. For option menu or slider control object, there is one more option for radio button. To create radio button, you can drag in as many instances of the same control object to XTouch panel as you like. For each of the instance, you can define the target value for the button. Once the button is pressed, it will send this target value to control the parameter. This radio button will also monitor the control parameter, if the parameter value is the same as the button target value, it will highlight the button to indicate it is at ON state.
- Add in new Universal Controller processing module.
  - o Add in Binary Data Queue – This module will take all its input binary data values that has been modified and placed it in a sequential queue and send out to further processing one by one.

o Add in Numeric Value Queue - Similar to Binary Data Queue, this module process on numeric values.
o Add in Numeric Increment/Decrement – Support a value (such as gain value) increment and decrement through push buttons.

Bug Fix:

- Fix XTouch Auto Logout and Idle timeout setting incorrect when you delete a password for the control page.
- Fix 3rd party control string definition will be duplicated when copy and paste a DSP module with 3rd party control string defined.
- Fix Logic Counter, Logic Delay module parameters cannot be controlled in ONLINE mode for Neutrino devices.
- Fix Xilica Designer crash bug when trying to reduce size rapidly for control component in XTouch design editor.
- Fix schematic compile bug when there is only logic module processing without audio processing.
- Fix some DSP modules control panel parameters cannot get to ONLINE mode in Neutrino/Uno device (hence cannot modify the module parameters). These modules include, AFS, Gating Automixer, Gain Sharing Automixer, Room combiner.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.2.0 (27 July, 2018)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V2.0.0
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.6.1
- SiteManager   V5.3.3
- XTouch Control   V3.2.0

New Features:

- Support Beta release of new universal controller functionality build inside Solaro Series DSP device. This universal controller will work in conjunction with our new XTouch H/W and S/W to provide a cost effective total controls solution for your site.
- Support storing Project backup file to all Solaro DSP devices when switching project to ONLINE mode. Also support retrieving project backup file from Solaro DSP device to restore project.
- Support saving XTouch design to Solaro DSP devices. After XTouch design has been saved to Solaro DSP, XTouch application can retrieve different control panel design from DSP device directly. A new "Network Configuration Retrieval" button has been added in XTouch App to query network configuration available. It does not require mapping and loading configuration from Xilica Designer.
- Support password protection for XTouch App configuration button and the network configuration retrieval button.
- Support Christie's GS Series projector universal control.
- Support Sharp PN-LE series TV control.

New Enhancements:

- Display the actual colour in colour selection option menu.
- Support Solaro device I/O option cards in the Bill of Material list.
- Support new GPIO Input/Output card configuration from software side. Now user can buy a generic Input/Output GPIO card that can be configured as GPIO Input, GPIO Input voltage or GPIO Output.
- Support the display of Solaro DSP control string display in project design view to make it easier to program control string from 3rd party controller (such as Crestron controller etc…).

Bug Fix:

- Fixed XTouch App performance issue when using background image for control pages.
- Add back analog output pin to Powersoft amplifier device for speaker connection documentation purpose.
- Fixed Option selection box UI object selection not set correctly when going from ONLINE mode back to Editing mode.
- Fixed wire not following DSP module object when dragging DSP module object. This is the case when you try to move DSP module right after you connect up some wire.
- Fixed project modified state display incorrectly when pressing "Cancel" during project save dialog.
- Fixed XTouch control editor pages list on the left hand side cannot display all pages if the list of pages is getting too large.
- Fixed misleading error message when schematic file being imported cannot be accessed by the OS. In older version, it will report that the file signature is NOT valid.
- Fixed bug for loading 100ms AEC module into Neutrino/Uno AEC devices. It will display error message saying required license does not exists. For Neutrino/Uno AEC device, license is build-in not additional license is required.
- Fixed bug for resize slider bar too large and blocking the title bar area. This happens when the panel size is very small.
- Fixed bug for meter not updating after syncing the clock of DSP device backward. If your computer time is slower than the DSP device, syncing a backward time to DSP device will cause DSP device to stop sending meter updated. This has been fixed by requesting a device reboot if clock has been set backward.
- Fixed Dante Universal Config bug that will not display some of the Dante Device on network when there are more than 30 Dante devices on the network.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.1.0 (5 Apr, 2018)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V1.1.0
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.5.0
- SiteManager   V5.3.3
- XTouch Control   V3.1.0

New Features:

- Support software license key mechanism for Solaro Device to enable different software feature (For exmaple AEC functionality). User is able to load in new license file to device or read back device license file for backup purpose.
- Support 8 Channels AEC with 250ms tail per device.
- Support 16 Channels AEC with 125ms tail per device.
- Support changing Solaro FR device sampling rate at Device Setup dialog. For device with Dante options, we will also setup Dante sampling rate following the device sampling rate. If we detected there is mismatch between Dante sampling rate and device sampling rate (such as the case that user plug in a different Dante card from another system), a warning icon will be displayed in Network view. And user need to manually adjust the Dante sampling rate.
- Support new Xilica IO Expansion box XIO-4x4 and XIO-32 in software.
- Support new Touch panel device XTouch50 and XTouch80.
- Support generic PJLink projector control protocol in 3rd party control list. Software now able to control PJLink compliant projectors.

New Enhancements:

- Support landscape and portrait mode for XTouch devices based on the design screen size selection.

Bug Fix:

- Fixed 'Device Setup' dialog 'Device Option Configuration' tab not displayed properly after dialog is resized.
- In Network view, when detected a device has changed it device model name, it will change the device icon to the proper device type according to the new device model name.

- Fixed Control Page Button not working for XTouch Control application.
- Fixed the bug for XTouch password controlled page cannot automatically logout issue. Now the automatic logout time has been set at 120 seconds.
- Fixed Solaro QR preset trigger not working if you selected Preset #1 as your targer.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 3.0.0 (27 Feb, 2018)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- Solaro DSP   V1.0.1
- NeuPanel Mini   V5.3.4
- NeuPanel Touch   V5.5.0
- SiteManager   V5.3.3
- SolaroControl   Not supported anymore
- XTouch Control   V3.0.0

New Features:

- Changed "Solaro Console" application name to "Xilica Designer"
- Changed "Solaro Console" application name to "XTouch Control", which includes "XTouch4", "XTouch7" and "XTouchApp". (XTouchApp is the software panel application which runs on WinPC, Mac, iOS and Android).
- The bottom menu bar of SolaroControl is now hidden to provide more screen real-estate for control design. The menu bar can be pull up by swiping the screen from bottom to top. And the menu bar will automatically be hide again after inactivity timeout. SolaroControl also support page change by swiping the screen from left-to-right or right-to-left.
- Support Solaro device temperature and DSP resource usage read back from device. User can view these resource usages in Network view -> Device Setup -> Resource usage tab.
- Support different project file for different Xilica DSP series. Now we do not support mixing of Neutrino series and Solaro series devices in a single project. When creating project, user need to pick which Xilica DSP series they are designing for. All non-compatible devices will not be displayed.

New Enhancements:

- Changed device I/O pin label colour to black to make it more readable.
- Modified logic module I/O pin to ellipse shape to make it more readable.
- Modified Matrix Mixer control panel mute button mouse over naming from "Band Output Mute" name to "Band Output Enable/Mute". And modified "Mute" name to "Connect/Mute". This is to avoid confusion when using Matrix Mixer.
- Modified Solaro Device I/O card colour scheme in the schematic design to match the physical I/O card phoenix connector colour.

- Support cable color selection in project view to allow user to better document the design and make the design more readable.
- Improved handling of multiple network interfaces on the computer of Designer Application. When multiple interfaces is detected, we will NOT ask user to pick an interface, instead we will try to discover devices on all available network interfaces. When performing device UDP test, a single UDP test will be performed on all network interfaces. If user is doing UDP test statistic, user need to pick which network interface to perform the UDP statistic.
- For password entering dialog, will display '*' to hide the password entered.

Bug Fix:
- Fixed system crash bug when entering non-ascii characters into the preset name.
- Fixed Console crash when reading back value from Solaro DSP device with a very large schematic.
- Fixed Console application hang bug when trying to save a really large schematic.
- Fixed Console application crash bug when trying to add more than 32 control parameters into a control object (i.e. a push button of a Mini panel).
- Fixed Console application bug on not able to delete control parameters (by pressing the Delete button on parameter list) from the control object property parameter list.
- Fixed Dante device not show up in Dante View when there is a lot of Dante Devices.
- Fixed Dante crash bug when the design number of Dante channels does not match with the physical Dante device. (i.e. Design device number of Dante channels is larger than the physical Dante device).
- Fixed bug on Xilica device not able to detect corresponding Dante component when starting up the device for the first time.
- Fixed software download and help file download successful message box from a "Warning" box to "Info" box.
- Fixed import device design file from physical device function. It was mistaken the wrong device and would warn user that the physical device is OFFLINE when it is actually ONLINE.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.

- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.
- For XTouch control, there is an option to automatically logout a password controlled page when it has been sitting on the screen for a period of time. This feature is NOT working in this release. We will fix this issue in coming release.

Release 2.0.1 (18 Oct, 2017)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- NeuPanel Mini: V5.3.4
- NeuPanel Touch: V5.5.0
- SiteManager   V5.3.3
- SolaroControl: V2.0.1

New Features:

New Enhancements:

- Add in mouse over popup messages to explain the details of object property.
- Add in "Basic property" and "Advance property" options so that user can select the level of information to be displayed for object property. This property display setting will be saved across different editing sessions.
- Store the Component Library component selection tree open status across editing session. When open console application, it will remember the last state of all tree open/close status.
- Support caching help file to local computer for offline help access. When starting application, it will check on Xilica Web Site for new help file available. User can choose to download the latest help file for offline access.
- Support text editor in object property panel to be auto select text to enable faster property editing.
- Support displaying a card/option configuration dialog for Solaro DSP device when adding a new DSP device to the project. This will make the work flow for adding Solaro device more systematic.
- For push button control object in control panel design, now we support a selection list for the target control value. This selection list provide all possible target values that this control item can be trigger.
- For Mini button in Neutrino Mini panel, now we have made the 2 supported modes (toggle button or action control button) explicitly selectable by user. When user select the Action button mode. It will display the possible target values for the control action.
- In control panel design mode, if there is NO items in the design a help message will be displayed to hint user on how to drag and drop items into the panel design.

- Add in more detail explanation to the device NOT Ready icon in network view when you mouse over on the NOT Ready label. There are mainly 2 reasons for NOT Ready, either there is network communication error to the device or there is NO configuration data in the device.
- Enhanced network view to display the current IP address that Console application is running on.
- Enhanced Network setup dialog to check the consistency of ethernet setup. We do not accept 0.0.0.0 as IP address, gateway address or subnet mask. We will also check the IP address will be on the same network as the gateway IP.
- For Solaro DSP device, we now support retrieving the diagnostic test report from device (the report will be based on the last diagnostic test run). In Device Setup dialog in Network view, a "Download Diagnostic Test Report" button is available if it detected that such report is available in the device.
- Support loading of Neutrino series diagnostic firmware program to Neutrino DSP devices for diagnostic testing.
- Support up to 128 Dante channels generic Dante device.

Bug Fix:

- Fix system crash bug when deleting an offline device from Network View and then the device comes back ONLINE immediately.
- Fix device mapping state in-consistent in Project view under a special situation. When opening a project that has a mapped device and that device has been removed from Network view. The device icon in project view will display device as NOT MAPPED. But if the device is ONLINE again and able to be detected in network view, the device mapping menu item will show the device is still being mapped while the icon display NOT MAPPED.
- Fix Matrix mixer control panel UI, the output enable button status is being displayed incorrectly. It is enabled when the UI is off and vice versa.
- Fix IP setup validation to ensure IP address, gateway address and subnet mask of device cannot be set to 0.0.0.0 under non-DHCP mode. We also ensure that the device IP address and gateway address are in the same network segment.
- Fix Ambient Noise Compensation module UI to display the calculated gain in meter format (instead of a non-controllable slider).
- Add back password encryption for Project File password protection.
- Fixed bug on Solaro DSP device schematic design import from physical device. When importing design from physical design the physical device I/O card configuration is also imported to the design device. These I/O card config should NOT be copy over from physical device as the design device has its own configuration. (This bug also apply when exporting design from network view and then re-import it to Solaro DSP design device).

- Fix bug in Solaro I/O board wire connection. The bug allows you to connect different wire type to various Input module (i.e. connecting audio to logic IO pin).
- Fix Solaro QR Control Input I/O card from 2 Ch to 4 Ch card.

Known Bug:

- When converting from NeuConsole project file to SolaroConsole, if the project file is being password protected, this project file cannot be opened in SolaroConsole. This is due to the wrong password encryption algorithm used in NeuConsole. This cannot be fixed on SolaroConsole side. To get around this issue, user have to remove the password protection for the project file using NeuConsole before converting the file to SolaroConsole use.
- When opening Solaro device for control in Network view, the preset trigger module configuration cannot be shown properly in the control panel. (The control panel will always say preset trigger disabled) Due to some technical implementation issue, this issue cannot be fixed.

Release 2.0.0 (23 Aug, 2017)

Supported Device Firmware Version:

- Neutrino/Uno   V5.4.2
- NeutrionAEC/Uno AEC/Rio   V5.4.1
- NeuPanel Mini: V5.3.4
- NeuPanel Touch: V5.5.0
- SiteManager   V5.3.3
- SolaroControl: V2.0.0

New Features:

- Support device MIPs real time usage display for Neutrino and Solaro device.
- Support DSP module parameters to be export/import to/from file. This feature is now enabled for Loud Speaker Management module. Which user can save/load the speaker setting for different brands.
- Support new software version notification when starting up application. When new software is detected, user can download the installation package (based on their installed O/S) to a local directory.
- Support new Device Firmware Manager to list out all available firmware version in our web site and help download the files to your computer for easy firmware file selection during device firmware upgrade
- Support USB firmware recovery for Solaro devices. It support the recovery for Main board, DSP board and related I/O boards.
- Support Real Time Clock on Solaro device.
- Support Troubleshooting function to help troubleshoot onsite network related issues. Tools includes:
  - UDP packet transmission error and round trip response time statistic
  - Capture device heartbeat receiving status
  - Capture network traffic between console application and devices.

New Enhancements:

- Updated project go online dialog to a more clear presentation and messages.
- Updated DSP matrix mixer control panel look and feel. Change the input and output display orientation to have output on horizontal and input on vertical.
- Improved SolaroControl application startup speed.
- Support more colours for control objects.

- Support more types of control object appearances to enhance the UI experience.
  - o Add in Simple Toggle Button that can support different colours for ON/OFF state. And the UI is plain and simple
  - o Add in Simple Action button that support plain and simple UI apperaence
  - o Add in Simple Vertical/Horizontal Slider, Simple Round Dial which can support different knob and rail colours.
  - o Modify colour scheme for control objects so that object can have transparent object colour and then a different border colour.
  - o Modify meter to have different meter LED off colour.
- Update all module control panel UI look and feel to the latest Xilica theme.
- Support mouse over popup hint on the control object details. When move mouse over to certain control object, it will display more detail info on what that control object is for.
- When opening up a control panel closer to the edge or bottom of the parent panel, we will move the control panel to the left and up to try to fit the panel. (Instead of shrinking the panel size in older version).

Bug Fix:

- Fix label property cannot be edited in design mode.
- Fix bug on not able to control Yamaha 3rd party control device when putting project ONINE while Yamaha control panel is being displayed.
- Fix a underlying TCP network connection release timing issue that will sometimes cause Console application or Control application to crash when performing 3rd party control element read.
- Fix bug on the display of project ONLINE dialog. If your project has images (or lines) and other non-device based elements in your project overview, the project ONLINE dialog will display a list of un-want items and it will also cause project not able to bring ONLINE properly.
- Remove control panel auto resizing of the content when adjusting the window size.
- Fix bug on Site Manager scheduler not working under Windows platform.
- Fix Site Manager scheduler editor not displaying the project save button after entry being modified.
- Fix application crash bug when doing undo on added components with link in between.

Release 1.7.0 (30 Mar, 2017)

Supported Device Firmware Version:

- Neutrino/Uno/Rio   V5.4.1
- NeuPanel Mini: V5.3.4
- NeuPanel Touch: V5.4.4
- SiteManager   V5.3.1
- SolaroControl: V1.7.0

New Features:

- Support language selection during initial installation of the application.
- Support loading in schematic design from physical device including current value and preset data. Especially useful for Uno device recovery.
- For Universal Control on 3rd party manufacturer's devices, we now support grouping similar control elements into a single control object. i.e. you can place 2 channel gains into a single control object.
- When going to ONLINE mode, a new dialog will be display for user to select which design device they want to load to physical device. And in the case of having the same schematic on DSP device, user has the option to over-write parameters or keep existing parameters in the device.

New Enhancements:

- Supported more languages: French, Spanish
- Supported copy and paste from one project to another project

Bug Fix:

- Fixed bug on deleting preset for projects that are converted from NeuConsole
- Fixed bug on creating full device preset for projects that are converted from NeuConsole.
- Fixed bug on upgrading firmware error for NeuPanel Touch device, if the firmware size is too large.
- Fixed bug that caused project to become modified (even there is NO change in the project design) when opening a control panel in ONLINE mode.

- Fixed bug on able to copy and paste Solaro physical IO card modules within Solaro Schematic.
- Fixed bug on displaying multiple warning dialog when user enter a wrong 3rd party control string for a control component.

Release 1.6.1 (16 Feb, 2017)

Supported Device Firmware Version:

- Neutrino/Uno/Rio   V5.4.1
- NeuPanel Mini: V5.3.4
- NeuPanel Touch: V5.4.4
- SolaroControl: V1.6.1

Neutrino/Uno/Rio V5.4.1 firmware changes:

o   Fix Control to Logic module bug which was not working well in previous version firmware.
o   Fix 3rd party control protocol to accept login password as case insensitive.

NeuPanel Touch V5.4.2 firmware changes:

o   Fix system automatically exit after long run.

New Features:

- Support the following device models from various manufacturers for Universal Control.
    - Yamaha
        - MTX3
        - XMV4140
        - XMV4280
        - XMV8140
        - XMV8280
        - XMV4140-D
        - XMV4280-D
        - XMV8140-D
        - XMV8280-D
        - Ro8-D
        - Ri8-D
        - Rio1608-D
        - Rio3224-D
        - Tio1608-D

    - Atterotech (Control)
        - unDX2IO
        - unD3IO

- unDIO2x2
- unD4I
- unD4IL

- Support USB firmware rescue for Neutrino based devices.
- Support Online Help from within application.

New Enhancements:

- Support logging debug message to log file.
- Add in Xilica DSP device data read mode for SolaroControl. For cases that customer designed a huge control panel which includes most of the device parameters, we introduced a full data read mode to enhance the efficiency (instead of individual data read back.
- Support screen auto scroll during drag and drop operation. This will enable dragging and dropping to area outside of screen.
- Support Site Manager devices and network firmware upgrade for Site Manager devices.

Bug Fix:

- Fix the display of control object details for objects with multiple DSP control points associated with the control. The control property list in object proper area will always show the first DSP control parameter for all associated DSP control points.
- Fix bug in generating controlling device ID for preset button placed in a touch panel. In old software, it mistaken NeuConsole converted touch panel as DSP device and hence try to send preset command to it.
- Fix system crashing bug when trying to control device using 3rd party protocol in a slower computer.
- Fix Dante View device not show up after Mac comes back from sleep state.
- Fix property editor sometimes display incorrectly when selected multiple objects.
- Fix pin label propagation bug that caused application to crash when labelling pin with loop back to same device.
- Fix preset not clear in device when loading a new project without preset being set.
- Fix NeuPanel touch device design screen to allow custom screen size.
- Fix bug on not able to control ONLINE device module, if we delete a module and then re-add a different module with the same component number.
- Fix bug on system crash when exiting if you have deleted a device in the project view.

Release 1.5.0 (5 July, 2016)

Supported Device Firmware Version:

- Neutrino/Uno/Rio   V5.4.1
- NeuPanel Mini: V5.3.4
- NeuPanel Touch: V5.4.2
- SolaroControl: V1.5.0

Neutrino/Uno/Rio V5.4.1 firmware changes:

- o Fix Control to Logic module bug which was not working well in previous version firmware.
- o Fix 3rd party control protocol to accept login password as case insensitive.

NeuPanel Touch V5.4.2 firmware changes:

- o Fix system automatically exit after long run.

New Features:

- Support the following device models from various manufacturers for Universal Control. And support drag and drop design of control pages in SolaroControl
  - o Powersoft
    - ▪ X4
    - ▪ X8
    - ▪ Ottocanali
  - o Bose Processors
    - ▪ ESP-880
    - ▪ ESP-1240
    - ▪ ESP1600
    - ▪ ESP-4120
  - o Ashly Amp and DSP
    - ▪ Processor NE4400
    - ▪ Processor NE4800
    - ▪ Processor NE8800
    - ▪ Amplifier NE4250
    - ▪ Amplifier NE8250
    - ▪ Amplifier NE800
    - ▪ Amplifier NE1600
    - ▪ Amplifier NE2400

- Add in device specific parameters configuration in Universal Control devices. i.e. in XP/XD, we support device ID input for a device so that multiple devise can be controlled on the same network
- Add in support for dynamic UDP port assignment for Universal Control. This way we can support more than 1 device in case the remote device requires to use UDP protocol server on the controller end. (such as Ashly and Powersoft).
- Enhanced different timing in Universal Control Protocol Engine so that it can cater for different manufacture need on message communication between SolaroControl and devices.
- Support display of Neutrino Native Control string for control object. When you put project ONLINE, you can Ctrl-click or Command-click on a single control object and left mouse click to select the "Display Native Control String" to bring up Native Control String dialog. The Write and Read command string will be displayed.

New Enhancements:

- Add in control object description on Universal Control, so when user drag in the control object to SolaroControl, they can still find out what this control is.
- Remove the unnecessary warning message when start/stop a device flashing function.
- Add in help file for Universal Control device control panel.
- Support individual slider with disable text input in SolaroControl as well as Neupanel Touch. When text input is disabled, user will not be able to enter the slider value through direct text input.

Bug Fix:

- Fixed pin label propagation bug when trying to propagation through an amplifier or speaker. These type of devices should not propagate label through it.
- Fixed object property text box sometimes updated to the wrong component. While entering text in the property text box in right hand side and quickly select another object, the input text will be applied to the newly selected object instead of the original object.
- Fix Sine Sweep module "Repeat" and "Restart" parameter not working.
- Fix Neutrino A0808AEC device definition bug that cause it cannot add AEC DSP module to the device.
- Fix application crash when try to display project 3rd party control element list. This bug applies to Windows platform only.
- Fix control slider display text font size not updated in editing mode after modified.
- Fix device firmware status not show properly after firmware upgrade.

- Fix device model name display in Network view is not showing properly. It should show the device model description.
- Fix text display position in Preset button. Now text is more center of the control object.
- Fix relative gain step size incorrect bug. When try to use the increment function in 3rd party control protocol, the feedback gain value after increment is incorrect for some step size.
- Fix wiring incorrect bug when you copy and paste an entire device object to another device. The wiring was wrong and project cannot be saved properly.
- Fix system crash bug when exit application after opening up Dante Device setup dialog in Network view.
- Fix application crash bug when performing undo on a module which reduced number of IO and those IO has wired connected.

Release 1.4.1 (11 June, 2016)

Supported Device Firmware Version:

- Neutrino/Uno/Rio: V5.4.0
- NeuPanel Mini: V5.3.4
- NeuPanel Touch: V5.3.8
- SolaroContro: V1.4.1

New Features:

- None.

New Enhancements:

- Allowing Input Selector and Output Selector selection option to be placed on Mini panel dial control. User can use the dial to switch the selection.
- Modify device default schematic to match with device Physical Input/Output count. But user can still modify the Input/Output module to add or reduce number of I/O for the schematic. But for the module control, it will only allow user to control up to the physical I/O limit.
- Modified Component Selection Panel and Property Panel clickable area size to a full bar, when it is in minimized state. This will make user easier to get back from minimized state to normal panel mode.
- Support IO point label propagation on project overview. It will also check the consistency of Dante IO point naming. (As Dante output point cannot have duplicate name for a device)
- Support user label for Mini button and dial on NeuPanel Mini design. This will allow user to put in remarks for the button that they have programmed.
- Add in Ethernet connection to overview icon of Touch panels and Mini Wall Controllers.

Bug Fix:

- Modify Compressor and LoudSpeaker Management Module default threshold value to 20dB. This will ensure that the default compressor will not affect the audio too much after user pull it into the design.
- Fix bug that caused Mini Control Dial not able to setup user defined range.
- Fix bug on parent panel bounding size for control panel under tile mode.
- Fix bug on NeuConsole project conversion. There was a bug on converting Dante IO Transmitter and Dante IO Receiver object to Solaro Console. These items was mis-interpret as Image object and Line object.
- Fix DSP device MIPS calculation bug that is not adding device base MIPS and head room calculation. So previous calculated device MIPS is reduced by 13%.

- Fix Simplify Chinese font display incorrectly on iOS device.
- Fix bug on NON-Controllable object selection by holding "Ctrl" or "Command" key and left mouse click on the control object. Previous bug cause it not able to select object this way.
- Add in default screen size for NeuPanel Touch device.

Release 1.4.0 (31 March 2016)

New Features:

- Support 3rd party device control for specific device manufacturer.
- Support 3rd party device control element to drag and drop into Solaro Control.
- Support background colour for Solaro Control panel.
- Support background image for Solaro Control panel.
- Support naming of device I/O point label will automatically bring it inside the schematic. And vice versa, if we change the input/output module I/O point label, device I/O point label will also be automatically updated.
- Support device preset date export when exporting to a design file. When re-importing this design into project, it will try to re-construct the preset data. However, preset name and whether the preset require mute during apply will not be carry over. User need to re-enter those information. This works for export in Project view or from physical device of Network view.
- Supporting a new object selection mode, which allow object to be selected if it is being touched by the selection rectangle (on top of existing fully enclosed object selection mode). If you draw the selection rectangle from top to bottom, this will be interpreted as fully enclosed mode. Objects (and links) that are fully enclosed within the bounding box will be selected. Whereas if you draw your selection rectangle from bottom to top, this will be interpreted as "Touch" selection mode. Any object being touched by this rectangle will be selected.

New Enhancements:

- Add in sort by manufacturer and sort by component function for System Component selection list.
- Support Window Tile feature. This tile feature is available when the number of opened windows is between 2 to 4. Pressing this tile button on title bar will arrange all opened windows accordingly to a tile layout. But if number of open windows is more than 4, the tile function will not be available.
- Add in device refresh button in network view.
- Add in periodic read option for 3rd Party Control objects. Now you can set individual control object whether you want it to be periodic read. Even if you have enabled the control object periodic read, you also need to enable the global periodic read timing at SolaroControl application to make it work.
- Add in screen size display at Menu bar for SolaroControl application. Now user is able to find out the actual screen size of their device more easily.
- Add in button and dial labels in Mini Panel to indicate which button is which.
- Support multiline label for Labels, Push Button, Toggle Button and Page Button.
- Add in support for different network control delay for different 3rd Party devices. Due to the performance of different devices, some devices cannot support

continuous sending of fader updates too fast, otherwise control commands will queue up and cause undesirable effect. Now we are able to set different network delay for individual control component.

- For Neutrino/Uno/Rio device that has Dante interface, we are detecting the Dante interface through Dante Interface port. If in case that Dante network interface is corrupted or mis-config. There is no way for SolaroConsole to reconfigure the Dante IP. Now we have built a Dante config force load tab in Device setup. For Neutirno/Uno/Rio device that cannot detect Dante card from network, we can do the Dante IP config through device CPU side.
- Support Ctrl-Z or CMD-Z as short cut for undo.

Bug Fix:

- Non-controllable parameters are not being protected, user can still control these parameters. Parameters such as Level, Frequency, Bandwidth for Auto Feedback Suppression module. This bug has been fixed and now you are not able to modify these parameters from console or control.
- Fix logic counter module Threshold parameter cannot be set in module control panel.
- Fix Loud Speaker Management Module control panel layout
- Fix "Component Selection Panel" and "Property Editing Panel" startup state incorrect (incorrect size) when creating new project or opening existing project.
- Fix IO connection bug that caused it difficult to perform wire drag and drop. Now the connection detection size at the IO point is increased to make it easier to drop.
- Fix IO connection bug that allow connected input to connect to another output point. By dragging the connected input point to another output point. Now this operation has been fixed. Now the I/O point selection position has been adjusted to allow smoother wiring operation.
- Fix component resize bug that cause it to have strange behavior when resize approach the edge of the container.
- Fix colour selection for Toggle button and push button object. For these 2 types of control object, we cannot set the base colour of it. You need to use Colour Push button or Colour Toggle button if you want different colour.
- Fix Object selection panel and Property panel label incorrectly when going into minimize state in ONLINE mode.
- Fix graph object in Loud Speaker Management module control panel not working (grey out) under device ONLINE mode.
- Fix MIPs calculation incorrect when calculating device with more than 1 AEC module. For AEC MIPs calculation, as long as there is 1 AEC module the overall schematic MIPs will be the same when you add in the second, third or fourth AEC modules.
- Fix Ethernet wiring move bug that caused network wire in the design to not move with the device when dragging it.

- Fix Graph object All Pass Filter 1st order and 2nd order graph not able to display correctly when frequency changes.
- Fix bug on mini panel editing that user should not be able to modify the background image.
- Fix bug on Project editor preset selection drop down box preset name not updated after user modified preset name in Preset Manager.
- Fix bug on Preset recall control button display text not updated after user modified preset name in Preset Manager.
- Fix bug that caused project to become modified state when moving control panel window position during ONLINE mode.
- Fix 3rd party control UDP control message not working issue.
- Fix bug on Meter object's LED colour cannot be changed.
- Fix crashing bug when trying to close the console application with Command-Q while having unsaved project files.
- Fix bug in putting NeuPanel Mini device ONLINE. Sometime, it will get error and not able to put the project to ONLINE mode (leaving project keep on the loading state forever). This is due to the timing issue on NeuPanel mini device restart, and this bug has been fixed.
- Fix bug on DSP module I/O point connection status incorrect after copy and paste. If a module has input/output points connected, copy and paste this object will make the newly created object has invalid pin connection status. And hence not able to connect this new module.
- Fix bug on project overview cable label position. When the link is a straight line, the label location is incorrectly placed inside the module.

Release 1.3.6 (03 Feb 2016)

New Features:

- None.

New Enhancements:

- Support Offline editing mode when there is NO network interface detected.
- Add in BOSE devices into the device list.

Bug Fix:

- Fix bug on Control Panel Page creation. The entered name was not properly set to the new panel page
- Fix bug on default schematicof Rio device has no signal connection.
- Fix bug on project save error which cause project file not able to re-open. This will happens when you set the "Invert" state of a mini button to true.
- Fix bug on compile error when opening project file with UNO-U0808 (AEC) model that was created using NeuConsole
- Fix bug that caused preset button can only be activated once in Solaro Control
- Fix bug in offline preset apply error when project contains Solaro Control device.
- Fix bug in wrong error being displayed when putting a Rio-22 and Rio-44 device online.
- Fix bug on Dante error dialog being placed behind project file open dialog during startup. This could cause user not to be able to access the application.
- Fix bug on the Dante device DHCP enable status not displayed correctly in Device Network view.
- Fix bug on preset button being grey out in Solaro Console and Solaro Control
- Fix bug on Multiple page editor (i.e. Solaro Control Editor), that can still be edited in ONLINE mode.
- Fix bug on Dante device IP config not working properly in device setup dialog.

Release 1.3.5 (21 Dec 2015)

New Features:

New Enhancements:

- For object copy and paste, if we detected pasting vertically aligned objects, we will automatically place the object to the right hand side and align it with the copy objecst. If we detected pasting horizontally aligned objects, we will automatically place the object to the bottom and align it with the copy objects.
-

Bug Fix:

- Fix bug on DSP module mono mixer, the default I/O count should be at least 2 input channels.
- Fix bug on DSP module Output Selector and Input Selector. If user changed the number of input/output channels in the design the control panel object does not update the selection menu to include the appropriate channels.
- Fix bug on Network View device manufacturer name display. For some devices, it did not show correct manufacturer.
- Change the default name generation to use "-1" instead of "_1" to make it easier to read.
- Fix bug on DSP module control display, If a module IO point has been changed, the label text is not being updated in the control display. Now this has been fixed.
- Fix bug on Option box not able to be selected by Ctrl-click action in DSP module control panel.
- Fix bug on DSP Control-to-Logic module compile bug. This bug will cause logic processing not working if such module is included in a schematic.
- Fix bug on NeuPanel Touch device cannot add new screens if the project file is converted from NeuConsole software.
- Fix bug on NeuPanel Touch not display control object correctly.
- Fix bug on selecting control graph object in module control panel by Ctrl-Click on the graph component.
- Fix bug on NeuPanel TCP failure if multiple Solaro Consoles are started on the network.
- Fix DSP module control panel default size to be smaller to fit the scaled downed control panel components.
- Fix Device version checking bug. Now we are able to display proper warning or error icon at Network view.
- Fix Device version checking bug when bring project online. If device has non-supported firmware version, we will not allow user to load the project to devices.

- Fix Bug on Network view device status display. After "Clear All user Data" for Neutrino device, we will mark the device as "NOT Ready"
- Fix Graph object not refresh with proper device data when bring the project ONLINE. This apply to the control pages in network view as well as graph on device design page.
- Fix Preset Mute not being stored properly in Preset management dialog
- Fix Application crash bug when exiting from Network view with some control element being displayed.
- Fix LED display component colour not displayed properly

Release 1.3.4 RC1 (7 Dec 2015)

New Features:

- Support export of project designs (Project overview and device schematic) to AutoCAD (.dxf) format.
- Support export of project designs (Project overview and device schematic) to JPEG format.
- Support device firmware upgrade.
- Support preset button creation by listing preset items on the component selection panel. User can just drag the preset items into Solaro control design.
- Support display and edit of parameter list within a control object. (For example, you can add and remove additional channel control of a single slider).

New Enhancements:

- Now component name, device name, preset name, labels and other items can support special characters such as '$' '&' '"' ''' '>''<'.
- Implemented page password auto logout which will automatically logout a page when switch to a different page.
- Implemented page timeout logout which will automatically logout when the actual page H/W go to sleep mode or switch application.
- Enhanced implementation of Ethernet, RS232, RS485, Pot, link mechanism, now we can have more than one link connected to these ports.
- Remove SolaroControl exit button from application. For tablet application (such as Android and iOS) the application will just sit at background and will not exit until user kill it form O/S side. For Mac and PC application, we will rely on the window close button to close it. This will make it more consistent with the tablet version.
- Will create 3 generations of backup files before opening a project file for exiting,
- Add in filter to only allow new Solaro Based Control objects (i.e. Response Graph) to be added to Solaro Based control application. For older control panel such as NeuPanel Touch, we do not support this new object type.

Bug Fix:

- Fix ETH-232 configuration bug on serial part communication parameters setting.
- Fix bug on mapping Dante device to physical device. It was not able to recognize Dante device with same I/O points.
- Fix bug on I/O definition for RIO devices.
- Fix bug on Device I/O point label propagation feature (for IO points and Links). It should not support such operation on device level.

- Fix Android application exit issue. As in Android world, application do not normal exit, and it will leave the O/S to handle application exit. So we need to remove the exit button in Android version of Solaro Control.
- Fix system crash bug in Windows environment, when creating a new preset for a project and view the preset details from Preset manager.
- Fix bug on dialog size get too small which causes application to crash.

Release 1.3.3 Beta 3 (15 Nov 2015)

New Features:

- Support web browser object in Solaro Control. Now you can place a web browser object into web control page. You can provide the home URL for the browser object. (Note: Currently this only works on Mac, Windows and iOS device. For Android and Linux devices it will not be able to support this object. It will just show up a blank control objet).
- Add in 3rd Party Control Configuration Manager to display all configured 3rd party control elements of the project. Also able to export project 3rd party control element into Excel format.
- Add in Preset detail dialog list to display all parameters related to a preset.
- Add in Project Bill of Material support to export BOM in Excel format.
- Add in support of RS232, RS485 and Pot connection wiring for device documentation purpose.
- Add in support for ONLINE device control in Network view. For DSP device, you can open the device and control the schematic from Network view.
- Add in Dante device definition for device from other manufacturers. Also re-arrange the device list on the left hand side to make it easier to find device to add to project. The following manufacturers has been added
  - o Ashley Audio Inc.
  - o Attero Tech
  - o Radio Design Labs
  - o Lectrosonics Inc.
  - o Stewart Audio
- Add in Search feature for component library selection. You can just type in part of the object name or the device manufacturer name, the corresponding components will be displayed for drag and drop operation.
- Support configuration of a new Ethernet to RS232/RS485 converter configuration in Console. This new device will show up in Network view automatically.
- Add in new Generic Device, similar to the generic Dante device, you can configure different IO channels for this device for documentation purpose. But this device will not support Dante IO. And hence it will not need to be mapped to any physical devices.

New Enhancements:

- Modify IO point order so that Device IO points are display with following order
  - o Local Audio IO
  - o Network Audio IO
  - o Local Logic IO
  - o Network Logic IO

- Local Control IO
- Network Control IO
- Ethernet port
- RS232 port
- RS485 port
- POT connection

- Support display of Max value and Min value string for slider control and meter display.
- Support touch panel auto logout when switch pages and auto logout with in-activity timeout.
- Add in Cable Type and Cable Length display for overview labels.
- When having an opened and modified project. User can still click the "New Project" and "Open Project" menu item. It will ask whether user want to save the editing project before opening a new one.
- Support Chinese character name for channel name in Dante View
- Support Device Manufacturer and Model Name editing for generic Dante Device and system components.
- Add in FW version in Network view device display
- Rearranged device display grouping and order to make it easier to find devices.
- Modify multi-page control panel editor to allow a single step add and rename of a new page.
- Control page "Page Button" can now support text wrap if the label is too long.

Bug Fix:

- Fix some device IO point mismatch with physical device.
- Fix bug on editing a module control panel in a bigger screen computer and moved the control panel to very lower-right of the screen. When trying to open this project on a smaller screen computer, the panel will not be able to display properly.
- Fix bug on 3rd party control slider max/min/step setting. Sometimes max/min/step value cannot be changed.
- Fix bug on Ctrl-Click not working on some control object. Especially on the text display part of a slider/dial. Making it difficult to select it and drag and drop it to other design pages.
- Fix bug in supporting Chinese Character input in the design elements.
- Fix bug in component auto naming. If name is followed by "name-1" it be changed to "name-1_1". The right naming should be "name-2".
- Fixed Windows platform new version install bug. Now new version can be upgraded by installing the new package directly. (Without requiring to remove old package before installation)
- Fixed Dante view connection view layout bug when input is not equal to output.
- Fixed Dante connection view layout issue when device has different input and output points. (i.e. input not equal to output)

Release 1.3.0 Beta 2 (20 Sept 2015)

New Features:

- In Console Application, when you put a project to ONLINE mode, the control pages of Solaro Control design editor can also control the ONLINE device parameter. (This also apply to 3rd party control elements)
- When putting a project to ONLINE mode, it will check all DSP device schematic design file. If all schematic design matches with the physical device, software will ask user whether they want to use the project parameter setting or use the physical device parameter settings.
- When putting an ONLINE project back to OFFLINE mode, it will ask user whether they want to copy device parameters back to the project file.
- Able to support both Solaro Console and Solaro Control applications to run on the same computer at the saem time. This applies to both Mac and PC environment.
- Support display of Module resource and Schematic resource usage. These resource usages will be updated automatically when you change the number of input of a module. Or when you add or remove components from the schematic.

New Enhancements:

- Add in 2 different data synchronization time settings in Solaro Control. Now we separated the sync time for DSP device data sync and 3rd party device data sync. For DSP device data sync, it is used in poor network conditions. If the control application missed some UDP data update message, it can make use of the DSP device data sync to periodically read back data from DSP device. For 3rd party devices, the control application need to initiate periodic data read to obtain data value changed information form the device. This second sync time is to allow user to set the update frequency.
- Add in 3rd party device data sync setting in Solaro Console. This enable periodic data value retrieval when putting a project that contain 3rd party control ONLINE.
- When putting a project ONLINE, user can force quit and put the project back to OFFLINE editing mode. We will issue a dialog to warn user and ask them whether they really want to do that.
- For 3rd Party Control Slider and Meter, we have added a new feature called Max display label and Min display label. This label text is used when a slider or meter goes to max/min value, we will show the text instead of the value. Example of usage of such text is "Min Value" or "OFF" or "Max Value" or "Full" etc…
- For 3rd Party Control Option menu, we are able to define the option menu selection text during design mode. This option value label can be entered as a comma separated strings. The first string is the min value string label, next is the one above min value and so on. If the provide comma separated string is less then

the option values, only the defined value will be displayed, the rest will be displayed as numbers.
- Add in a "Create Project from Selected Device(s)" button in Network view. This will enable user to conveniently create a project based on the physical devices on the network. (Originally this button is part of the device popup menu. Now it is moved to the Network view more viewable area).

Bug Fix:

- Fixed System Crash when Horizontal Slider height is too small (<= 30 pixels).
- Fixed the Push button type name. It should be "Colour Push Button" rather than "Round Push Button".
- Fixed 3rd party control configuration dialog, to disable text enter for some non-editable fields. (such as Data Type, Capability, Control Max, Control Min, Max(Raw), Min(Raw), Support Toggle, Support Increment).
- Under ONLINE mode, user should not be able to do Copy, Paste or Undo in editor. This should apply to both popup menu and short-cut keys.
- Fixed bug that cause project fail to go ONLINE when number of DSP modules is more than 64 modules.
- Fixed bug on selecting straight line/lines with rectangular bounding box does not work.
- Fixed bug on DSP connection error, which caused some DSP module not function well. Example, Sine Tone module does not send out audio to proper DSP modules.
- Fixed bug on DSP Physical Input/Output modules. For modules that have more input/output points than the device physical IO point, the physical IO points label should be highlighted in green. This is now fixed.
- Fixed bug on NeuPanel Mini Configuration. After adding in control parameter to the Mini control buttons and load the project to device immediately will caused Mini panel not working.
- Fixed bug on NeuPanel Mini editing. Do not allow mini button and dial to be moved or deleted.

Release 1.3.0 Beta 1 (10 Sept 2015)

Initial release of Beta Software:

- Includes Solaro Console 1.3.0 Beta (with Universal Dante Config Support)
  - Windows Platform
  - Mac Platform
- Includes Solaro Control 1.3.0 Beta
  - Windows Platform
  - Mac Platform
  - iOS Platform (download from iTunes)
  - Android Platform (download .apk install file)

Some New Key Features Highlight (as compare with NeuConsole):

1. Multi-Platform:

The new Universal Solaro System Software is aiming to run at multiple host computer platforms. Able to run the main Console application (SolaroConsole) on both Mac and. Also for the control application (SolaroControl), it is able to run on Mac, PC, iOS, Android.

This multi-platform approach enables users to enjoy the same simple and consistent environment no matter what computer platform you have.

2. Dante Universal Configuration:

As Dante become more and more popular, configuring a large Dante project will become quite tedious. With large number of Dante I/O count will make using Dante Controller from Audinate being difficult. Solaro Console has build-in Dante configuration capabilities to enable Dante configuration being done graphically and saved into a project file. This universal Dante configuration will work for all Dante enabled devices from other equipment manufacturer.

3. 3rd Party Control:

Being able to configure Dante device from other manufacturer, we have also build in a universal 3rd party control capability into our Solaro Control software. With this feature, iOS devices, Android devices, Mac computers and Window PCs are able to control devices from different manufacturer. Equipment with published control protocol (such as projectors, CD players etc) are able to be controlled by Solaro Control application.

Known Bugs:

- Under Mac environment, after you wake up from a computer sleep mode, the first time you start Solaro Console, you might not be able to detect Dante device on the network. You may need to exit Solaro Console application and re-start the application again.
- In Solaro Console, if you put in a SolaroControl device into your design. After you put the project ONLINE, the control items that you designed in Solaro Console will be transferred to the Solaro Control device and works well in SolaroControl. But on Solaro Console application, the design page control elements are NOT able to control the physical ONLINE device. The control elements are not attached to anything.

Features that still need to be implemented in coming release:

- In Network View, currently we are not allowing user to start controlling the device without opening the appropriate project. Will support this feature in coming release.