

QSC[™]

Q-Sys

Release Notes Rev. F

Release 1.1.181 January 25, 2010

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Release Notes

Changes to This Document

Release 1.1.181, January 25, 2010. In build 181 of Release 1.1, an additional [Known Issue](#) has been reported.

Release 1.1.180, January 14, 2010. In build 180 of Release 1.1, some additional [Known Issues](#) have been resolved.

Release 1.1.176, December 18, 2009. In build 176 of Release 1.1, some additional Known Issues have been resolved. A [new component](#) "Crossfader" has also been added.

Release 1.1.173, November 23, 2009. In build 173 of Release 1.1 dated November 23, 2009, some additional Known Issues are resolved.

Initial Release 1.1, November 16, 2009.

Installation Software Requirements

	Q-Sys Designer	WMI Web Management Interface	UCI User Control Interface (web)	UCI (AIR)
Microsoft Windows Vista SP1 or Microsoft Windows XP Professional Version 2002 SP3	Required	N/A	N/A	N/A
Microsoft .NET Framework 3.5 SP1 (click for info)	Required Installed Automatically ¹	N/A	N/A	N/A
Apple Bonjour for Windows (click to download) ²	Required Installed Manually	Optional Installed Manually	Optional Installed Manually	Optional Installed Manually
Adobe Flash version 10 or later (click to download)	Not Required	Required Installed Manually	Required Installed Manually	Required Installed Manually
Adobe Air (click to download)	Not Required	Not Required	Not Required	Required Installed Manually

1. Internet access required.

2. Enables entering the Core, I/O Frame, or User Control Interface name (<http://<name>.local>) instead of the IP Address in a web browser address line. Also provides a list, in your web browser, of devices, by name, to which you can connect by double-clicking the name in the list.

New and Changed Features

Components

New Control Delay Component

Adds the ability to delay control signals.

New Crossfader Component

Added the Crossfader component, allowing you to fade between two input channels going to one output.

New Meter Component

The Meter component in Release 1.0 has been deprecated, and is no longer available in the Schematic Library. The new meter component can select between RMS and Peak readings, and has a numeric scale for the graphical meter. If you hover over the graphical meter, you can get the numeric readout of the input.

It is recommended that you replace any Release 1.0 Meter Components in your Release 1.1 design with the new Meter component.

If you open a Release 1.1 design in Release 1.0, the new Meter component will not function in Release 1.0.

New Noise Canceler Component

Cancels noise in its output over a specified bandwidth.

Audio Player Component

The name was changed from Audio File Player to Audio Player. If you have previously accessed files using "drive1/filename.ext" you only need to enter the filename and extension. The default number of tracks available is 16. With the appropriate upgrades you can have maximum limits of 64 or 128 tracks.

Control Script Component

The editor for control scripts is new, and has find / find and replace capabilities.

Crossover Component

A graphical Response panel is now in the Crossover Control Panel. The Response panel shows graphs of ALL crossover bands/slopes with a combined graph of the bands, or only a combined graph. In addition, you can add a phase graph along with either of the other two choices.

E-mailer Component (BETA)

The E-mail component has been added to the Schematic Library under Control Components. Refer to the E-mailer topic for details.

Gain Component

The Gain Component now has the ability to set minimum and maximum gain limits over the range of -100 dB to 20 dB. By setting the upper and lower limits to the same value, you can lock the gain control to that value.

Generic Distributed Speaker Component

The following controls, indicators and/or Properties have been removed from the Generic Distributed Speaker Component: Line Voltage Property, Total Wattage Property, Limiter, Crest Factor, Power, Compression

GPIO Component

Now supports both optical and mechanical rotary switches. When the direction is Output, GPIO Pins 1 through 4 now support Open Collector, High Current Drive settings.

Matrix Mixer Component

- Mono 2-D Panner (BETA)
- Added icons and numbers to the input and output position controls to indicate input and output, and to which input/output the position control belongs.
- Added Gain Circles to indicate the relative gain being applied to the affected inputs/outputs. Added Radius controls for the inputs to determine their circle of influence on the outputs.
- Mute and Solo Crosspoint Controls In the Matrix Mixer Properties you can choose to have a Mute button for each crosspoint, and a Solo button for each crosspoint.

Room Combiner Component

Background Music (BGM) - The room combiner component now has a property to configure the number of background music inputs. When a BGM input is selected, it is mixed in with the room's output. The room combiner has a "Combined" LED that indicates when a room is combined with another. It is color coded so all rooms combined together will illuminate in the same color. The room combiner has buttons to determine if controls are linked together when rooms are combined. Linking was previously possible only for output gains and this was a property rather than a control.

Signal Presence Component

The Hold Time minimum was reduced from 100 ms to 10 ms.

General

Check Design

The Check Design dialog box now has Network Bandwidth usage included.

Color-coded Status Fields

Core, I/O Frame, Amplifiers, and Loudspeakers The Status Components for these Inventory items now have text-based status fields that are also color-coded to indicate the overall status.

LEDs and Buttons

You can now change the color of the "off" state of LEDs and buttons that have been dragged from a Control Panel into the Schematic or a User Control Interface.

Inventory

You can now group Inventory items by their status . This feature is available in the Run mode only.

Reverse Action

You can now apply the Reverse Action Property to button, fader, knob, and LED controls dragged into the Schematic, or UCI. The Reverse Action changes the direction of the control. For example, a gain control normally increases gain as the control moves clockwise; apply the Reverse Action, and the gain now increases by moving the control in a counterclockwise direction. This is useful, for example, if you want a gain control to appear to be

increasing attenuation. Another example is if you want to change a mute button (on state is muted, off is passing audio) to an enable button (on state is passing audio, off state is muted).

Multiple Media Drives

No Longer Exist - When you install the Solid-state Drive (SSD) option, the standard storage device is no longer accessible. Any media files you stored on the standard drive are no longer accessible.

HoverMon (BETA)

The HoverMon allows you to monitor digital input and output signals with an RTA display, and to send audio to your PC's sound card.

Context Finder

The Context Finder, accessed by pressing Ctrl+F, enables you to jump from an Inventory item in the Inventory list to its associated Component in the Schematic, and from the Component in the Schematic to the Inventory item in the Inventory list. It also works for External Controls, or controls copied into the Schematic or User Control Interfaces.

Required Software

Flash 10

Adobe Flash 10 is required for Q-Sys Designer 1.1

Web Management Interface

New Event Scheduler (BETA)

You can now schedule events such as playing media files, setting snapshots, and triggering controls.

New Time and Date Tab

The Time and Date tab allows you to set the time zone and the time and date on the Core.

Manage Media files on the Core using FTP

You can now use FTP through Windows Explorer to manage the media files on your Core.

Security

You can now control the ability to "Load from Core and Connect" at the Group level.

Signal Links

Signal Links have been deprecated. They have been replaced by Signal Names.

Signal Names

Signal Names provide the capability to name the inputs and outputs of components, and make connections to other components using the assigned names. You no longer have to use wires to connect components, you can use either wires or Signal Names, or both.

Snapshots

You can now select one or more Components or controls from a Control Panel and click "Create Snapshot from Current Selection". A new Snapshot is created with the Components/controls in the Snapshot.

User Control Interface

- If there is only one page in a UCI, you cannot add page tabs. If there is more than one page, you cannot hide the page tabs.
- To deploy a UCI you must create a Q-Sys WebControl Markup Language (.qwcml) file, using a text editor such as Notepad. Refer to the User Control Interface topic for more information.

BETA Version Features

There are a number of features in Q-Sys Designer currently in a BETA version. These features are marked as such in the Q-Sys Designer user interface, and in the associated help topics. A BETA feature is labeled as such to indicate that it is not as polished as we'd like it to be. It is functional, but there might be caveats and rough edges associated with it. In addition, a BETA feature is more likely to change in the future.

The following features are currently in a BETA state:

- AES3 Input/Output
- Channel Group
- E-Mailer
- HoverMon
- Matrix Mixer 2-D Panner
- Paging components
- Subtractive Ambient Compensator
- User Control Interfaces
- WAN Stream Receiver
- WAN Stream Transmitter

Resolved Known Issues

Peak Level on the Meter component, not displayed in User Control Interface

Issue: When the graphic level indicator from a Meter component is placed in a User Control Interface, it does not display the peak level, only the RMS level is displayed.

User Control Interface does not connect sometimes

Issue: When attempting to display a User Control Interface on a Windows PC, the connection fails. This should only be a problem on Windows networks.

Multiple Copies of I/O Cards in Container Component

Issue: Q-Sys does not allow copies of any I/O Cards, however, if the I/O Card is inside a Container Component or a Channel Group Component, the Component can be copied multiple times resulting in more than one I/O Card in the same slot of an I/O Frame or Core.

Issues Resolved in Release 1.1.173 - November 23, 2009

Controls Disappear from the External Control Pane if the Source Component's Properties are Edited

Issue: When a control has been placed in the External Control pane, then the Properties of the Component, from which the control was taken, are edited, the control is removed from the External Control list.

Audio Player Doesn't Always Play the Correct File When the Audio File is Changed, and Play is Pressed Quickly

Issue: Changing the Filename drop-down Control of the Audio Player, and then quickly pushing Play will sometimes result in the Audio Player not playing or in some audio from the previously loaded file being played. This probably only happens with very quick control changes issued through external control or from script.

Limiter Reduction Meter Removed from the Generic Distributed Loudspeaker, but the Limiter was Still Active.

Issue: The limiter reduction meter was removed from distributed loudspeakers, but the limiter was not actually disabled.

Issues Resolved in Release 1.1.176 - December 18, 2009

I/O Frame GPIO Frequency 6.7% Higher than User-specified Frequency

Issue: When the PWM frequency is set in the I/O Frame GPIO, the output frequency is about 6.7% higher than what was specified by the user. The output is now correct.

Issues Resolved in the Release 1.1.180 - January 14, 2010

Core Becomes Very Sluggish and Audio to the I/O Frames is Lost

Issue: Designs using the Audio Player component may experience an extreme slowdown of the Core, and loss of audio to any I/O Frames in the system. The greater the number of Audio Players in the design, the symptoms occur sooner and are more severe.

Gain Ramp Component's Current Gain is Incorrect

The Current Gain, in the Gain Ramp Component, indicates the gain that is being applied to the signal. Previously, the Current Gain would show -120dB even though the actual gain was somewhere in between gains A and B. This has been corrected. The Current Gain now shows the actual gain as it is being ramped between gains A and B.

Signal Snake / Signal Name Issue

Fixed an issue with Snakes and Signal Names which made it impossible to edit the Signal Name of a Snake pin if the other end of the Snake also had a Signal Name.

Known Issues Reported in Release 1.1.181

Firmware

I/O Frames Manufactured after 12/2009 Report Error if You Try to Downgrade Firmware

Issue: If you add an I/O Frame manufactured after 12/2009 to your existing system and attempt to downgrade the firmware on the I/O Frame to match that of the existing Core, the I/O Frame will report an error. You can not downgrade the firmware.

What to do: Upgrade your Core's software/firmware to Q-Sys Release 1.1.181 or later. [Contact Q-Sys Support](#) for more information.

Known Issues Reported in Releases Prior to 1.1.181

Compiler

Inaccurate DSP Resource Usage Report on Cores 3000 and 4000

Issue: DSP resource usage is underreported as the network channel count approaches the limit.

Workaround: Keep the DSP resource usage under about 90%.

Controls

Orphaned DSP controls

Issue: When a control had been dragged from a component, and then the component is deleted, the control remains, but cannot operate or have an effect.

Workaround: Manually select and delete the orphaned controls.

Update: When you select an orphaned control, the Context Find popup tells you the "Source of control does not exist."

Control Networking

I/O Frame specified as Network Redundant, Core has only one network interface enabled, incorrect status is displayed in I/O Frame.

Issue: If a Core has only one network interface enabled, and in the design an I/O Frame is specified as having redundant networking, audio stream dropouts result in an incorrect status of "Compromised" rather than "Fault" in the I/O Frame Status Component.

Workaround: If you intend to run without redundant networking, do not specify redundant networking in the design.

Cannot switch between Cores when one has LAN-A removed, the other has LAN-B removed

Issue: In a redundant Core, redundant network, system when the LAN-A connection to one Core is removed, and the LAN-B connection to the other Core is removed, you cannot switch between the Cores using Core Redundancy Controller in Q-Sys Designer.

Workaround: None known

Firmware

Core and I/O Frame status not being reported to the Web Management Interface

Issue: If a Core or I/O Frame network interface is down, or other changes are made, for example the IP Address, it doesn't always get reported to the Web Management Interface.

Workaround: None known

User Control Interface

Audio Player file drop-down list does not work in User Control Interfaces

Issue: When an Audio Player file selector control is placed in a User Control Interface page, it does not display properly (scale) on a remote interface.

Workaround: None known

Web Management Interface

Web Management Interface not accessible by name if LAN A is disconnected

Issue: With both LAN-A and LAN-B of a Core connected (and enabled) to the same network, when LAN-A is disconnected, the Core is not accessible by entering `<corename.local>` in the browser address bar, or by Bonjour.

Workaround: Enter the Core's IP Address in the browser address line.

Web Management Interface and User Control Interface not getting updated

Issue: Because of Windows Internet Explorer's infamously aggressive caching, the Web Management Interface or the User Control Interface might not get updated correctly after a firmware update on the Core.

Workaround: Change Internet Explorer's caching option.

In Internet Explorer 6: Tools > Internet Options... > General tab > Temporary Internet files > Settings... > Check for newer version of stored pages: > Every visit to the page.

In Internet Explorer 7: Tools > Internet Options > General tab > Browsing history > Settings > Check for newer version of stored pages: Every visit to the page.

Q-Sys Designer

Q-Sys Designer cannot be used on the AUX LAN ports

Issue: Q-Sys Designer cannot connect to a Core on its AUX LAN ports.

Workaround: Use either LAN A or LAN B.

Audio Player Sometimes Causes a Core Restart

Issue: The Audio Player occasionally causes the Core to restart the design within the first minute after starting, if the design is saved with the Audio Player in the looping state. On rare occasions, the design may restart after the Audio Player has been playing for a long time.

WAN Stream Transmitter

Issue: The WAN stream transmitter status doesn't indicate whether streams are actually received at the destination.

Workaround: None known.

WAN Stream Transmitter/Receiver - Multicast Option Removed

Issue: The multicast property has been removed from both the WAN transmitter and the receiver. Multicast does not work reliably with multiple network interfaces enabled.

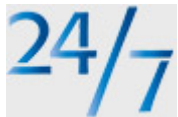
Workaround: None known.

Create Signal Snake from Snake Input or Snake Output

Issue: If you drag a wire from a Snake Input (or Output) of a Signal Snake, then press the space bar, another Signal Snake is created with one Snake Input Channel, and one Snake Output. This effectively "re-bundles" the Signal Snake causing signal flow problems.

Workaround: Do not create a secondary Signal Snake from the Snake Input or Output of a Signal Snake.

How to Contact QSC Audio Products



QSC offers 24/7 support on Q-Sys networked audio systems only

USA and Americas

Full Support Business hours: 6 AM to 5 PM Pacific time (Mon-Fri)

Emergency only After-Hours and Weekend support*

USA: 1-800-772-2834

Non-USA: +1 714-957-7150

Asia & India

Full Support Business hours: 8 AM to 6 PM WITA time (UTC +8) (Mon-Fri)

Emergency only After-Hours and Weekend support*

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Full Support Business hours: 8 AM to 6 PM CET time (Mon-Fri)

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* After hours calls are guaranteed a 30 minute response time when calls are not directly answered by a QSC support engineer.

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