VOICEQ

NUENDO CUBASE

Using VoiceQ Pro
with Steinberg
Nuendo & Cubase

User Guide

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VoiceQ and Digital Audio Workstations

This guide describes the configurations and procedures used within VoiceQ and Digital Audio Workstations and are intended for use by Audio Engineers to understand the operation and configuration of both systems.

During the recording process VoiceQ takes over the role of playing back the movie file from the DAW. You can leave the movie file loaded in your DAW session, but the track should be disabled, to avoid competing with the VoiceQ Application.

VoiceQ superimposes the scrolling text on the movie and outputs it via the second DVI port of your Apple mac video card (or the external DVI/Thunderbolt port on laptops). VoiceQ uses the Graphics Processing Unit (GPU) and the Memory on the video card to process the video, which reduces the load on the CPU of your computer.

VoiceQ will chase and scrub while you work in DAW. VoiceQ also has an option to cue DAW when you select a line in VoiceQ. This will locate the DAW session to the record location for the selected line with an adjustable pre-roll value.

Recent improvements specific to VoiceQ Pro:

- GENMTC Support for accurate sync
- VoiceQ listens for 'Start, Continue, Play & Stop commands'
- Post-roll – Users can set post-roll in VoiceQ Preferences
- Mute Sound when Recording – mutes VoiceQ audio when recording
- Recording starts before a set time (See Preferences)
- Recording Icon added to VoiceQ Transport

Actual recording of audio and management of playlists still takes place in your DAW using your normal process.

Note: In a single computer configuration VoiceQ will work with many other recording applications including Logic Pro, Nuendo, Cubase and others.

Check our website for the correct set up instructions and screen shots for these applications.

Note: In a dual computer configuration, the Digital Audio Workstation may be any device that will output MIDI Time Code (MTC) and/or MIDI Machine Control.

DAW Preferences
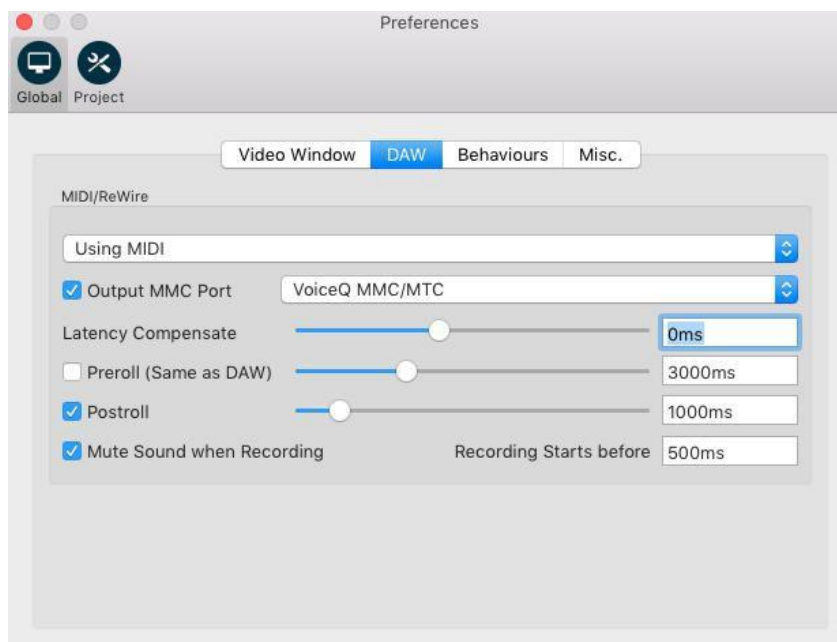
The preferences have been slightly altered to allow easier user access to options for MIDI.

MIDI/Rewire Option Selection – Allows users to select either MIDI or ReWire connections. *Note: ReWire will not be visible if not active or installed.*

Output MMC Port Checkbox – Outputs MIDI/ReWire data and ignores any chase data sent from DAW. This option is used if DAW engineers need to make changes on the fly and not affect VoiceQ playback.

MIDI Selection – This dropdown lists all available external connections

Latency Compensate – If playback is incorrect between VoiceQ and the set DAW. Users can adjust the latency using the slider.

Pre-Roll – Users can now set pre-roll in DAW and leave this option unchecked. This option is available if users wish to see pre-roll when not connected to a DAW

Post roll – Sets the time the DAW records after the line is completed

Mute Sound when recording – Mutes VoiceQ audio

Recording Starts before – Sets the time the DAW records before the line begins.

Single Machine Setup (using IAC driver)

The Apple Inter Application Communication (IAC) Bus is used to send all MIDI information when VoiceQ and DAW are on the same computer – we refer to this as a **Single Computer Configuration**.

A MIDI interface or Network Session is used when the Digital Audio Workstation (DAW), in this case DAW, and VoiceQ are on separate machines (dual computer configuration). If you are using a **Dual Computer Configuration** you do not need the IAC Bus and can skip directly to the next section.

1. **Open MIDI Studio**. It is located in **Applications/Utilities/Audio MIDI Setup.app**. Launch this app and **select Window>Show MIDI Window (Command + 2)** from the menu to open it.
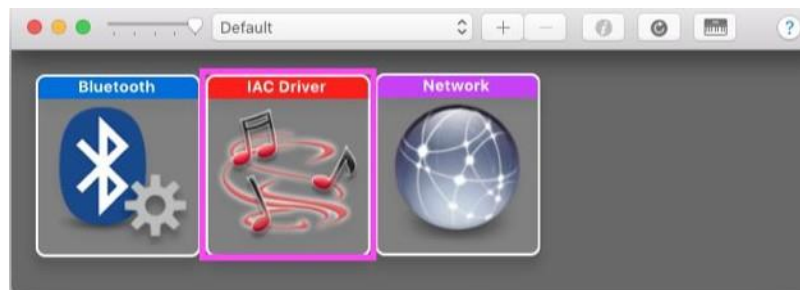
2. **Select IAC Driver**. Double click it to open the IAC Driver Properties window.
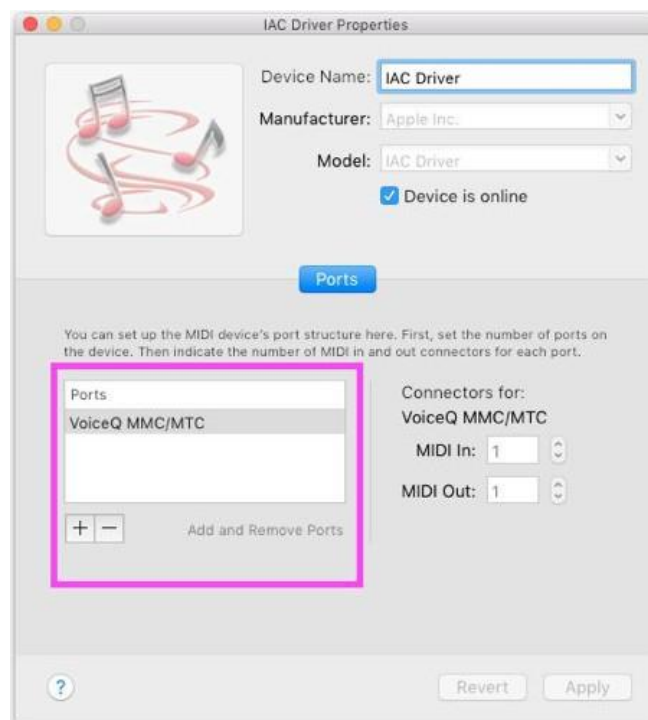
3. Add Ports by **selecting '+' button** and **give the port a name**. In this example, we named it **VoiceQ MMC/MTC**.

4. **Click the checkbox 'Device is online'** to enable this virtual MIDI device.

5. **Open Nuendo/Cubase and select Transport>Project Synchronisation Setup…**
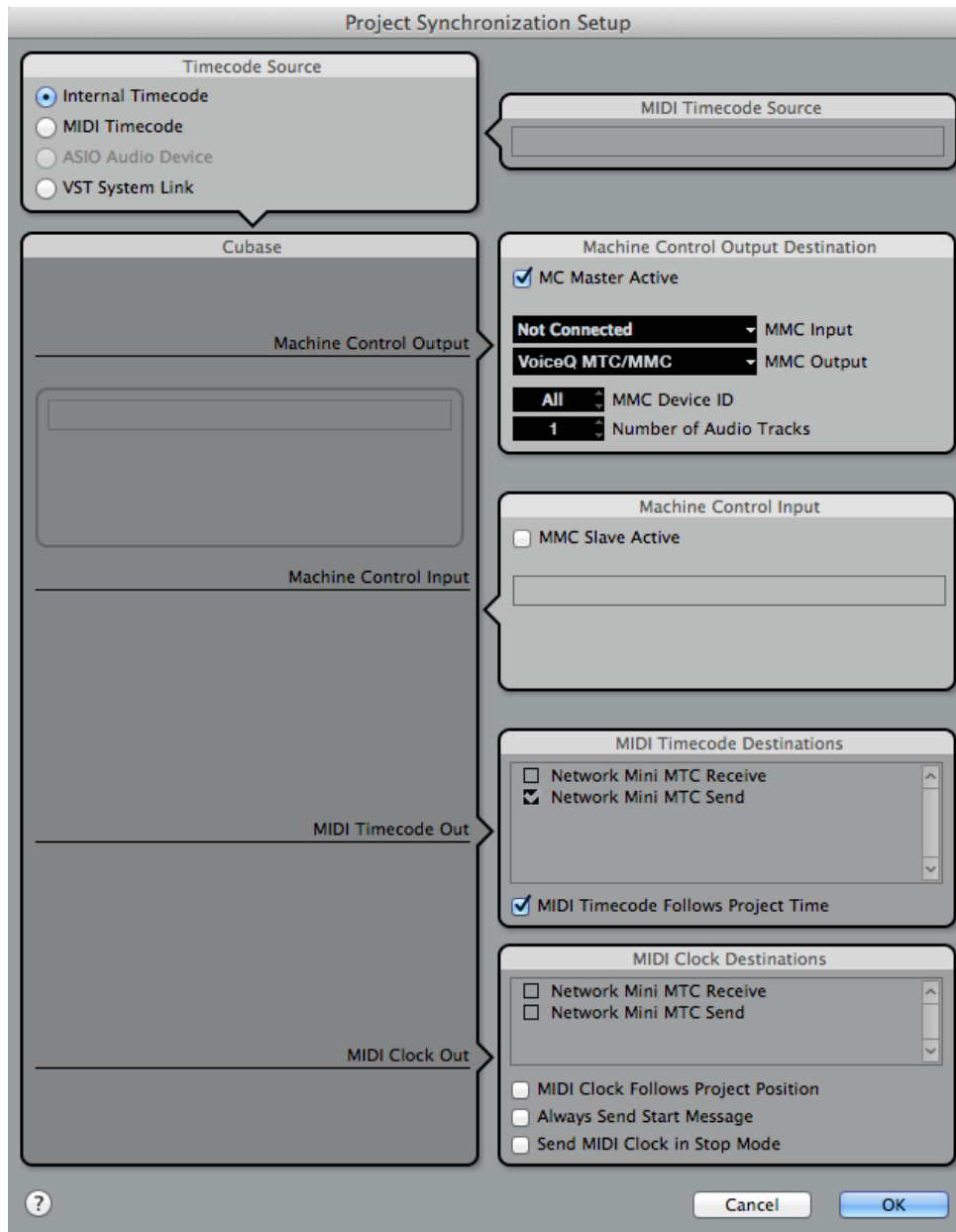
6. Navigate to Timecode Source in the top left box, select "Internal Timecode".

7. Select the outputs for "Machine Control Output Destination" and "MIDI Timecode Destinations" to send MIDI data to VoiceQ.

8. In the "MIDI Timecode Destinations" box, check the "MIDI Timecode Follows Project Time" checkbox.
9. Select 'OK' to close the window.

In the transport, you can see the Sync is set to Internal. MTC data will be transmitted when playback is started.

10. **Launch VoiceQ and select VoiceQ>Preferences…** from VoiceQ main menu.
11. **Enable Output MMC Port** and **select the IAC Driver** by name. In this example, it is VoiceQ MMC.MTC.
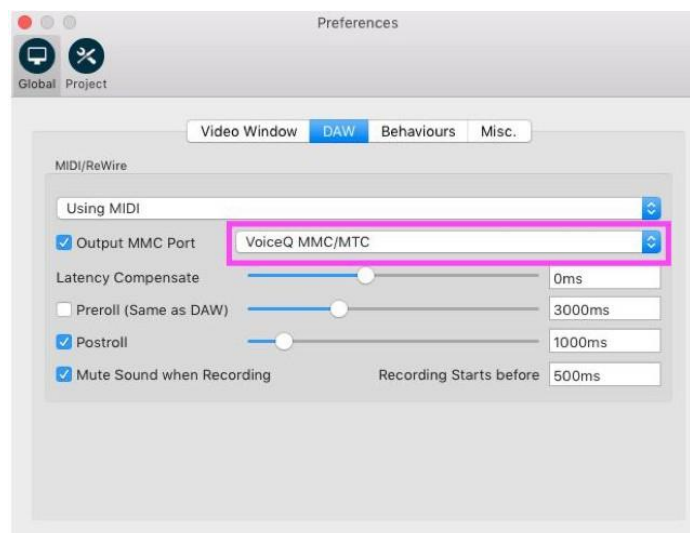
12. Select the **MIDI Chase Icon** in the lower left-hand corner of the VoiceQ Project window.

VoiceQ and Nuendo/Cubase are now ready to communicate through your virtual MIDI device.

Dual Machine Setup using Network (RTC-MIDI)

The Dual Computer Configuration is when Nuendo/Cubase and VoiceQ are on separate computers with MIDI information sent via the Local Area Network (LAN).

With a **Dual Computer Configuration,** we can use Apple's MIDI network feature to send MIDI via the Local Area Network. This setup does not require any additional MIDI hardware. First configure your LAN (if required) so the 2 machines can communicate and 'see' each other on the local network. Contact your Systems Administrator for assistance if required.

On the Mac running Nuendo/Cubase

1. **Open MIDI Studio**. It is located in **Applications/Utilities/Audio MIDI Setup.app**. Launch this app and **select Window>Show MIDI Window (Command + 2)** from the menu to open it.
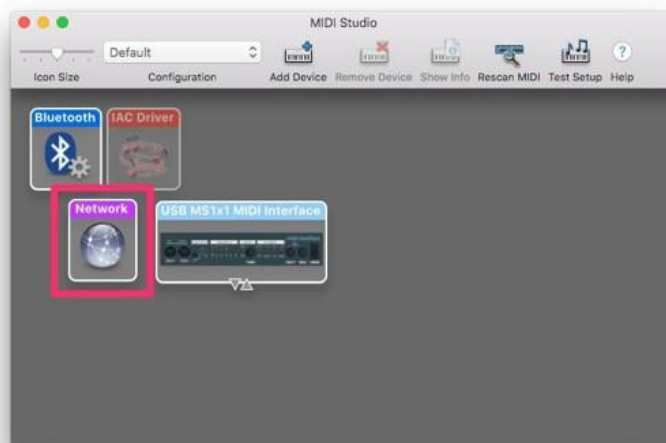
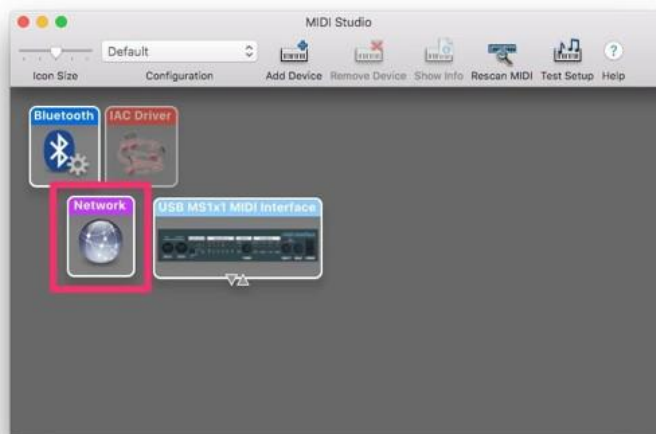2 **Select Network**. Double click it to open the MIDI Network Setup window.
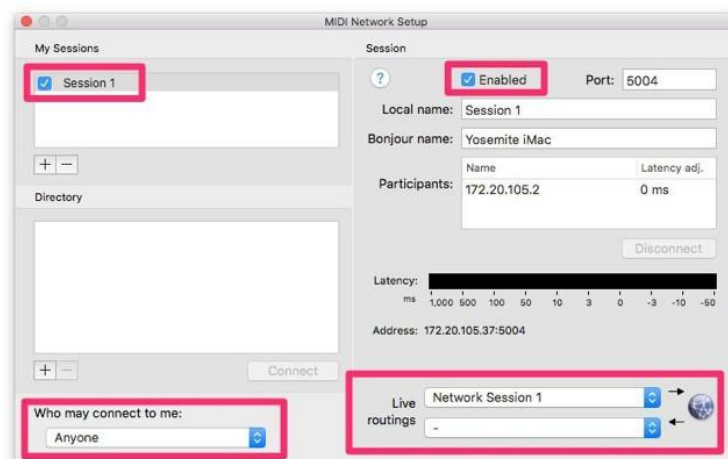
3. **Add a session** by selecting '**+**' button under My Sessions. **Enable the session** by clicking the Enabled check box under Session and name it. We are using the default name 'Session 1' in this example.
4. **Select 'Anyone'** from the drop-down list under 'Who may connect to me:' section.
5. **Select this Network Session** from the first drop down list under the 'Live routings' section.

On the Mac running VoiceQ

1. **Open MIDI Studio**. It is located in **Applications/Utilities/Audio MIDI Setup.app**. Launch this app and **select Window>Show MIDI Window (Command + 2)** from the menu to open it.

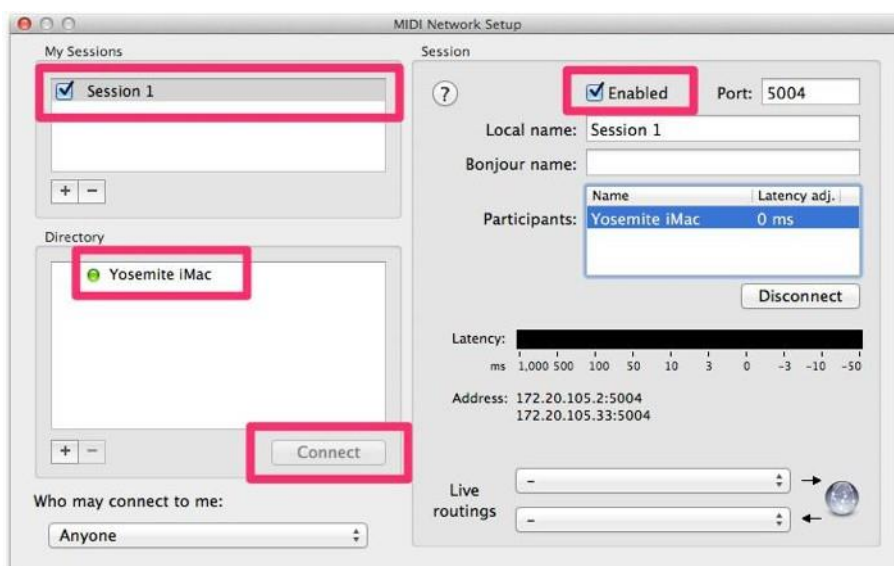2. **Select Network**. Double click it to open the MIDI Network Setup window.

3. **Add a session** by selecting '**+**' button under My Sessions. **Enable the session** by clicking the Enabled check box under Session. **You must give the exactly same name and port used in Step 3**. Again, we are using the default name 'Session 1' in this example.

3. Now you can see the Mac runs Pro Tools from the Directory list. In our example, its name is Yosemite iMac. **Select the Mac runs Pro Tools** from the list. Connect to it by **clicking the 'Connect' button**.

On the Mac running Nuendo/Cubase

1. Open Nuendo/Cubase and select Transport>Project Synchronisation Setup…
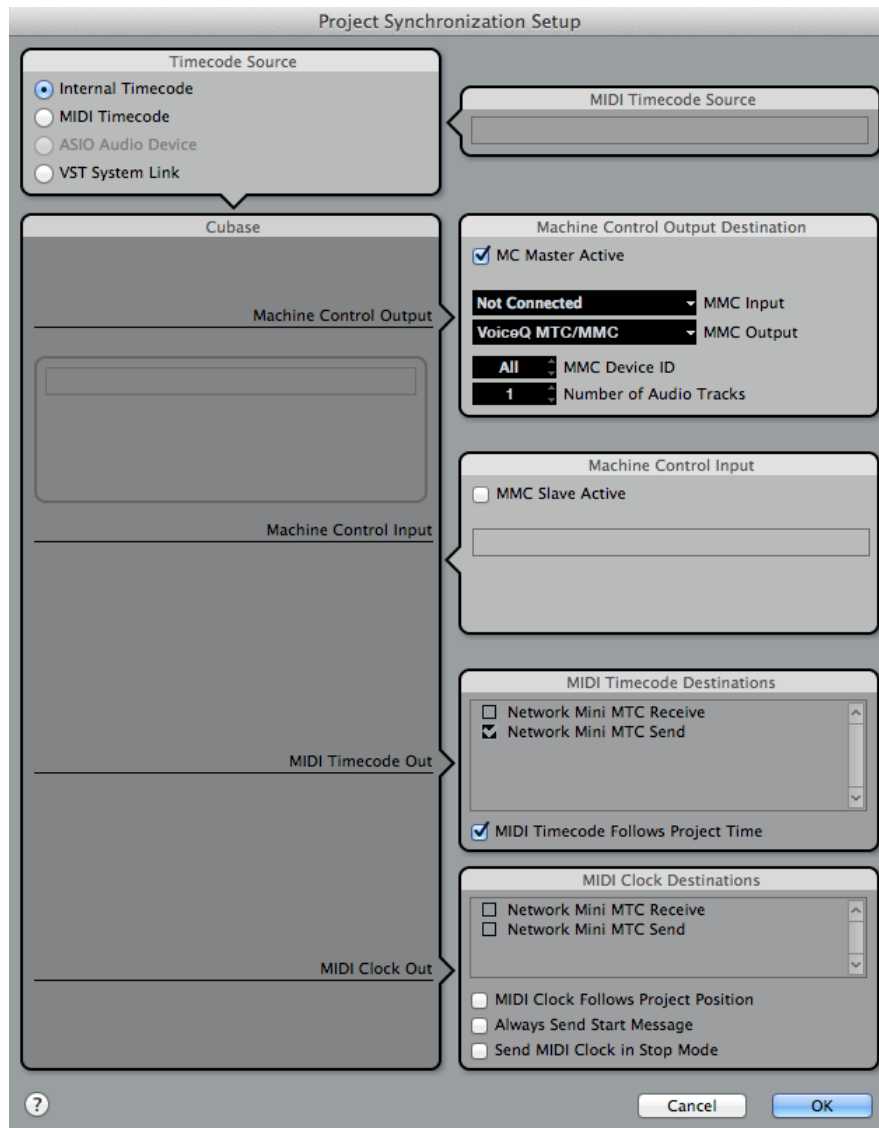
2. Navigate to Timecode Source in the top left box, select "Internal Timecode".

3. Select the outputs for "Machine Control Output Destination" and "MIDI Timecode Destinations" to send MIDI data to VoiceQ.

4. In the "MIDI Timecode Destinations" box, check the "MIDI Timecode Follows Project Time" checkbox.

5. Select 'OK' to close the window.

On the Mac running VoiceQ

1. **Launch VoiceQ and select VoiceQ>Preferences…** from VoiceQ main menu.
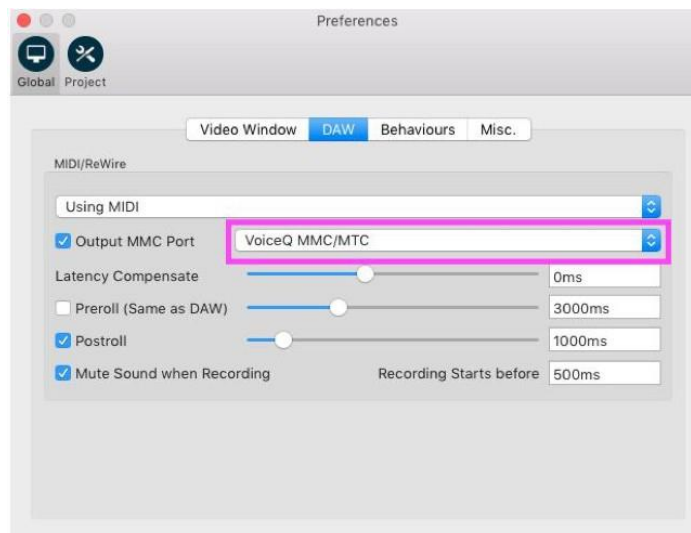
2. **Enable Output MMC Port** and **select the Network session** by name. In this example, it is Session 1.

3. Select the **MIDI Chase Icon** in the lower left-hand corner of the VoiceQ Project window.

VoiceQ and **Nuendo/Cubase** *are now ready to communicate through your network (RTC-MIDI).*

Note: RTC-MIDI protocol used for this configuration is stable in most cases but it does not guarantee zero packet loss. The latency and the possibility of packet loss may vary under your network conditions. Especially when the network is congested, which may cause the latency and packet loss to increase.

Dual Machine Setup using MIDI hardware interfaces

Using separate computers for Nuendo/Cubase and VoiceQ with MIDI information sent via MIDI hardware interfaces.

This configuration requires a MIDI hardware interface on both computers, which are connected via a MIDI cable. Many AVID hardware boxes like the M-Box, Digi 001-003, Command 8, Control 24 feature MIDI output ports.

The VoiceQ computer can use any standard USB MIDI interface, with VoiceQ automatically recognizing and chasing incoming MIDI timecode when it is set to online/chase mode.

On both Macs running Nuendo/Cubase and VoiceQ

1. Connect both computers with the MIDI Device using the appropriate MIDI cables. The actual configuration maybe different from the screen shots.
2. **Open MIDI Studio**. It is located in **Applications/Utilities/Audio MIDI Setup.app**. Launch this app and **select Window>Show MIDI Window (Command + 2)** from the menu to open it.

3. **Check all your MIDI interfaces are shown** in the windows of both machines. If not, click `Rescan MIDI' button to rescan MIDI ports. In this example, we used USB MS1x1 MIDI Interface from M-Audio for Nuendo/Cubase machine, and USB Uno MIDI Interface from M-Audio for the VoiceQ machine.

On the Mac running Nuendo/Cubase

6. Open Nuendo/Cubase and select Transport>Project Syncronisation Setup…
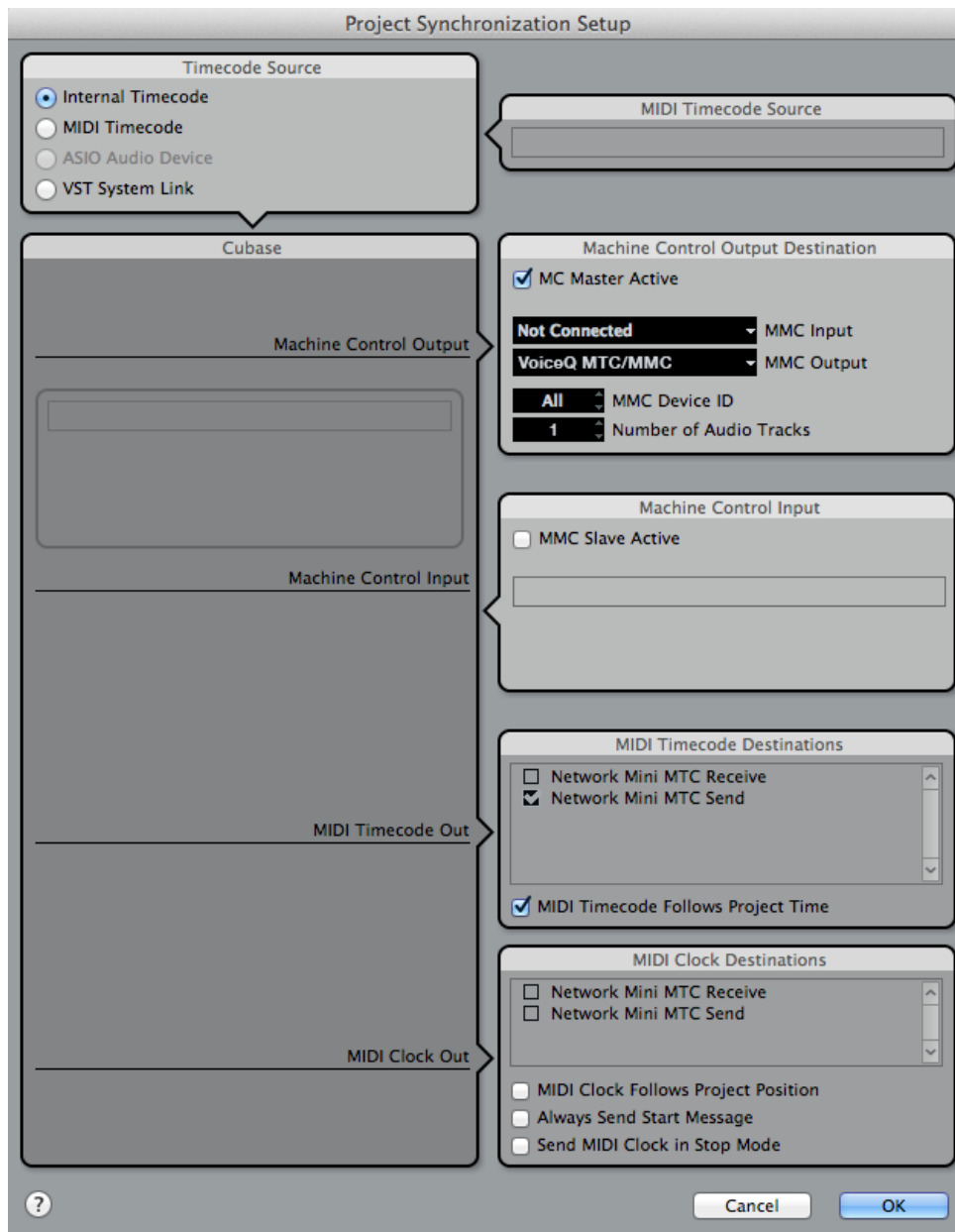
7. Navigate to Timecode Source in the top left box, select "Internal Timecode".
8. Select the outputs for "Machine Control Output Destination" and "MIDI Timecode Destinations" to send MIDI data to VoiceQ.
9. In the "MIDI Timecode Destinations" box, check the "MIDI Timecode Follows Project Time" checkbox.
10. Select 'OK' to close the window.

On the Mac running VoiceQ

1. **Launch VoiceQ and select VoiceQ>Preferences…** from VoiceQ main menu.
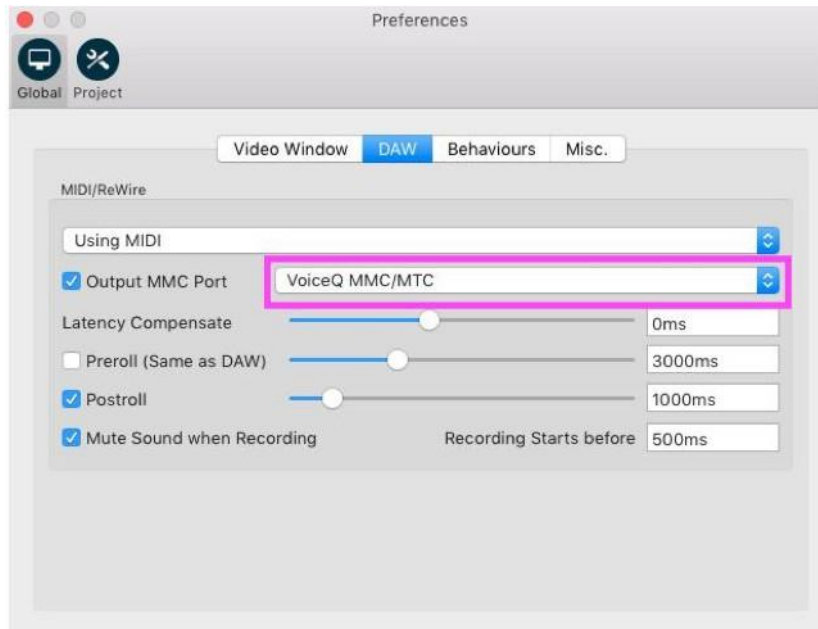
2. **Enable Output MMC Port** and **select the MIDI interface connected to the VoiceQ machine**.
3. Select the **MIDI Chase Icon** in the lower left-hand corner of the VoiceQ Project window.

VoiceQ will now chase the incoming MIDI timecode from Pro Tools through your hardware MIDI interface.

VoiceQ will also scrub the video and scroll text in response to the MIDI machine control. MIDI Beat clock is used for additional synchronization accuracy. The transport controls in VoiceQ can also be used, even when VoiceQ is waiting for external MTC. To have VoiceQ chase incoming MTC from Pro Tools click on the `Chase External Timecode' button in the transport section or use the Quick Key ⌘J.

Please contact [VoiceQ Support](#) if you require further information on how to implement any of these configurations.

Thank you

Your VoiceQ Support Team