

## SEQUENCER SETUP FOR STUDIO 64 XTC AND ADAT

The following sections provide configuration information for controlling an Alesis ADAT with the Studio 64 XTC and a software sequencer. If your scenario, however, involves other audio and video devices, you should instead consult *Chapter 13: Word/Super Clock, Blackburst and Video Sync* in the Studio 64 XTC manual.

☆ *NOTE: The following example represents some basic fail-safe settings that are likely to get you up and running. Your actual configuration may differ slightly if, for example, you are using a different frame rate or sample rate.*

### STUDIO 64 XTC USER PROGRAM SETTINGS

Once you've connected the ADAT and Studio 64 XTC as specified in your Studio 64 XTC manual, use either the Program Editor on the PC, or OMS Setup on the Mac, to edit and store a user program with the following sync settings:

- **Sync Reference Mode:** Internal
- **SMPTE Frame Rate:** 30 Non-Drop
- **Digital Phase Lock:** On
- **Sample Rate:** 48 kHz
- **ADAT Online:** On
- **ADAT ID:** 0
- **ADAT Offset:** 00:00:00:00

In addition to the previous sync settings, make sure the ADAT is routed to and from the computer in the Connection grid.

### OMS STUDIO SETUP

If your MIDI sequencer is OMS-compatible, you must configure the current Studio Setup accordingly:

- ① Launch the OMS Setup application, add a device to your current Studio Setup, and assign its port number to **5**.  
Make sure the device is set to send and receive both **MTC** and **MMC**. And make sure the OMS Device ID (in this example, "0") matches that contained in the current Studio 64 XTC user program.
- ② If using multiple ADATs, additional units should appear in OMS as daisy-chained devices on port 5.  
Each successive ADAT must be set to an ID one greater than the previous. If, for instance, the ID of the ADAT connected directly to the Studio 64 XTC is defined as "0," the second ADAT would be specified as "1."

## CAKEWALK (PC) CONFIGURATION

- ① Choose **Settings>MIDI Devices**.  
In addition to any other desired input/output devices, select and highlight **64XTC Sync Port** as an Input, and **64XTC ADAT Out Port** as an Output. Click **OK**.
- ② Choose **Settings>MIDI Output**.  
In the resulting dialog, check **Transmit MMC** and set the **Timecode Masters Unit ID** to "0." Click **OK**.
- ③ Choose **Settings>Time Format**.  
Set the SMPTE/MTC Format to **30 Frame Non-drop** and enter a SMPTE/Format Offset of **00:05:00:00**. Click **OK**.
- ④ Choose **Settings>Clock**.  
Select **SMPTE/MTC** and click **OK**.
- ⑤ Click the **Play** button in Cakewalk's Toolbar, or type Space.  
The Studio 64 XTC starts generating time code and the ADAT rewinds or fast forwards to the desired play location. Once the ADAT enters into play mode (its "play" LED stays solid), the sequence begins to play.

## VISION 3.5 (MAC) CONFIGURATION

- ① Choose **Options>Sync Options**.  
Set Receive Sync to **MTC/Machine Control**, and set the Sync Source to **Studio 64XTC**.  
Set Send Sync to **none**.  
Set the SMPTE Format to **30 fps, non-drop**. Then click **OK**.
- ② Choose **Windows>MMC**.  
Verify that your ADAT device (as defined in the current Studio Setup) appears in this window.  
Click on the triangle directly to the right of the ADAT device and choose MMC Communication Setup from the pop-up menu. Specify **Use Open Loop communication** and uncheck the option for "Suppress MMC Transport Commands." Then click **OK**.  
Specify the number of record tracks as 8, and set the Pre Roll to 5 seconds.
- ③ From the Tracks Window, click on the Information (i) toggle in the upper left corner. Specify an **Offset** value of 00:05:00:00:00.
- ④ Click the **Play** button in Vision's Control Bar, or type the Space key.  
The Studio 64 XTC starts generating time code and the ADAT rewinds or fast forwards to the desired play location. Once the ADAT enters into play mode (its "play" LED stays solid), the sequence begins to play.

## CUBASE VST (MAC) CONFIGURATION

- ① Choose **Options>Synchronization**.
- ② Configure the following Synchronization settings:  
**Timecode Base:** MMC  
**From Input:** Any  
**Output:** ADAT (or whatever you named the device on port 5 in OMS)  
**Frame Rate:** 30 fps  
**Tempo Base:** Internal  
**Sync Out, MIDI Timecode:** off  
**Sync Out, MIDI Clock:** off  
**Offset, Song Start:** 00.05.00.00.00
- ③ Click **OK** to close Synchronization dialog.
- ④ In Cubase's Transport Bar, click the **Sync** button so it's highlighted.
- ⑤ Press the **Stop** button in the Transport Bar, or type 0 on your computer keyboard.  
This will correctly initialize internal time code for Cubase.
- ⑥ Click the **Play** button in the Transport Bar, or type Enter.  
The Studio 64 XTC starts generating time code and the ADAT rewinds or fast forwards to the desired play location. Once the ADAT enters into play mode (its "play" LED stays solid), the sequence begins to play.

## LOGIC 3.0 (MAC) CONFIGURATION

- ① Choose **Options>MIDI Options**.
- ② Configure the following Synchronization settings:  
**Transmit MIDI Clock:** Off  
**Transmit MTC:** Off  
**Auto Sync In:** On  
**MIDI Machine Control:** On
- ③ Click **OK** to close MIDI Options dialog.
- ④ Choose **Options>Serial Port Communications**.  
Make sure **OMS** is selected and the desired serial port is enabled, then click **OK**.
- ⑤ In the Transport Window, click on the Clock icon and choose **Open Tempo List** from the pop-up menu.  
Choose **30** from the SMPTE format pop-up and uncheck the option for **Detect**.  
Specify a SMPTE offset of 00:05:00:00:00 and then close the window.
- ⑥ Click the **Play** button in the Transport Window.  
The Studio 64 XTC starts generating time code and the ADAT rewinds or fast forwards to the desired play location. Once the ADAT enters into play mode (its "play" LED stays solid), the sequence begins to play.

## MISCELLANEOUS ADAT NOTES

### **ADAT ROM VERSIONS**

The Studio 64 XTC has been successfully tested with the following versions of ADAT firmware:

- ADAT (original), version 4.03
- ADAT XT, version 1.06

If you are experiencing problems with your ADAT not responding correctly to MMC commands and your ADAT firmware is earlier than the versions mentioned above, contact Alesis for an ADAT firmware upgrade. You can check the version of your ADAT firmware by simultaneously pressing the Set Locate and Fast Forward buttons on the front panel of your ADAT.

### **ADAT AND ADAT XT HOOKUP ORDER**

If you have 2 or more ADAT's of mixed types (such as one original ADAT and one newer ADAT XT), always place the ADAT XT first in the chain, before the original ADAT.

### **ADAT LOSES COMMUNICATION**

If for some reason the Studio 64 XTC loses communication with your Alesis ADAT, you should power cycle both the ADAT and the XTC. You should, however, always lower the volume completely on your audio system before turning off the Studio 64 XTC.

### **ADAT AND POWERING DOWN THE XTC**

To avoid possible audio spikes, you should always lower the volume on your audio system before turning off the Studio 64 XTC and ADAT.

### **FRONT PANEL ADAT CONTROLS**

When the ADAT and Studio 64 XTC are connected to each other and powered on, the ADAT's front panel controls are not available. Since the ADAT basically works as a slave in this scenario, initiating play or record from its transport controls, or attempting to format a tape, will not work. To perform any of these functions, take the ADAT "offline" or simply turn off the Studio 64 XTC.

### **ADAT ID NUMBERING**

The ID numbering scheme for the Alesis ADAT is off by one. For instance, if your Studio 64 XTC user program is set to "0," the front panel of your ADAT will actually display "1." The important thing to remember is that the ADAT ID stored in the current Studio 64 XTC user program must match the ID specified in your sequencing software (or OMS Studio Setup).

## ADAT AND MMC CONTROL

When controlling the ADAT via MMC, the Studio 64 XTC's Sync Reference mode *must* be set to **Internal**. In addition, **Digital Phase Lock** must be enabled.

## ADAT CLONES

Any of the ADAT-compatibles manufactured by Fostex are not supported for direct connection to the Studio 64 XTC's ADAT Sync port.

## TAKING THE ADAT OFFLINE

The **ADAT Online** option lets you specify whether the Studio 64 XTC communicates with a connected ADAT. If you take the ADAT "offline," time code and transport commands are not sent to the ADAT Sync port; in addition, the time code from the ADAT is ignored—thereby speeding up the time it takes to lock up with your sequencing software.

Using either the **Program Editor** under Windows or the **OMS Setup** application on the Mac, you can specify for each user program whether the ADAT is online or not.

You can also temporarily take the ADAT offline from the front panel of the Studio 64 XTC:

- ① Turn on the Studio 64 XTC and ADAT.
- ② Using the PROGRAM button, call up the Sample Rate sync function. The LED for the selected sample rate is lit, along with the ADAT LED (indicating it's detected and online).
- ③ Press the SYNC button repeatedly until the ADAT LED is selected (it should blink rapidly).  
After a few seconds, the sample rate LED will again become lit, and the ADAT LED will then blink slowly (indicating it's offline).

Repeat the previous step to place the ADAT back online.