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# Editing Audio

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- 6** Use LP and Tape Assistant to Edit Newly Captured Audio
- 7** Convert Audio File Formats
- 8** Add Tags to Audio Tracks
- 9** Add Tracks to Sound Editor
- 10** Split, Crop, and Join Tracks
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- 14** Add Effects to an Audio Track
- 15** Mix Multiple Audio Tracks
- 16** Export Audio

Besides being able to capture audio, Roxio Easy Media Creator 8 provides powerful audio-editing capabilities and several interfaces in which to edit audio. **LP and Tape Assistant** and **Quick Sound Editor** are abbreviated versions of **Sound Editor**, Easy Media Creator’s full-fledged audio-editing application.

**LP and Tape Assistant** is a capture, edit, and export wizard that allows you to quickly process the audio you want to capture. The wizard gives you the option to export your audio to **Sound Editor** if you need more editing capabilities.

**Quick Sound Editor** can be launched from most of the audio project interfaces within Easy Media Creator. It has the fewest audio-editing capabilities, but is good for a quick clean up. Although it is not addressed individually within this chapter, all of its capabilities are found within **Sound Editor**.

**6 Use LP and Tape Assistant to Edit Newly Captured Audio**

**✓ BEFORE YOU BEGIN**

Chapter 1, “Start Here” (Review information about audio file types)

- 5** Capture Audio Using LP and Tape Assistant

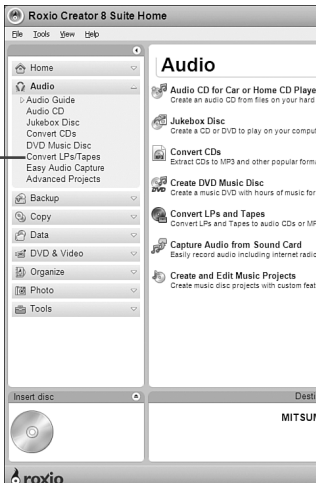
**→ SEE ALSO**

- 9** Add Tracks to Sound Editor
- 10** Split, Crop, and Join Tracks
- 11** Fade Volume of an Audio Track
- 12** Set the Right and Left Audio Track
- 13** Clean, Enhance, and Equalize an Audio Track
- 14** Add Effects to an Audio Track
- 15** Mix Multiple Audio Tracks
- 16** Export Audio

**LP and Tape Assistant** is a complete capture, edit, and exporting wizard. It’s useful if you would like to immediately edit the audio you have captured and then export it to whatever application or format you choose. If you are not familiar with the steps to capture audio in the assistant, refer to **5 Capture Audio Using LP and Tape Assistant**.

**LP and Tape Assistant** is a simplified version of **Sound Editor**, a full-fledged audio-editing application. Most of the tasks in this chapter focus on editing your audio within **Sound Editor**. If you would like to use the advanced editing power of **Sound Editor**, you can either launch **Sound Editor** instead of **LP and Tape Assistant** or you can export your captured audio to **Sound Editor** in the last step of **LP and Tape Assistant**.

**1 Capture Audio Using LP and Tape Assistant**

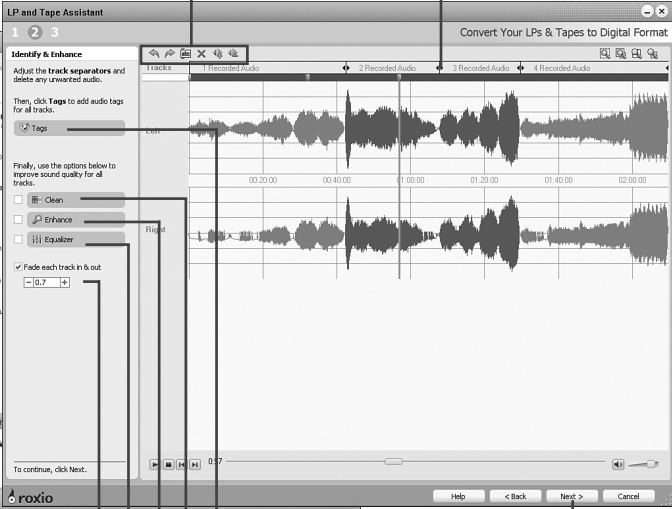


**8 Fade Your Tracks In and Out**

**7 Set Equalizer**

**3 Edit a Track Using the Taskbar**

**2 Adjust the Track Separators**



**4 Click Tags to Add Audio Tags for All Tracks**

**5 Clean Your Audio Tracks**

**6 Enhance Your Audio Tracks**

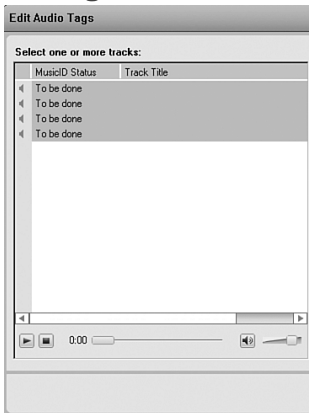
**9 Click Next**

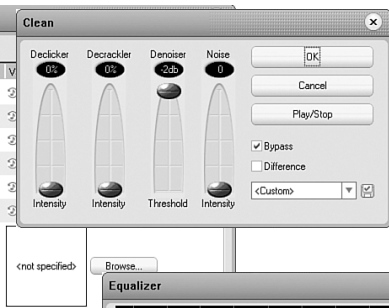
**4 Click Tags to Add Audio Tags for All Tracks**


**5 Clean Your Audio Tracks**

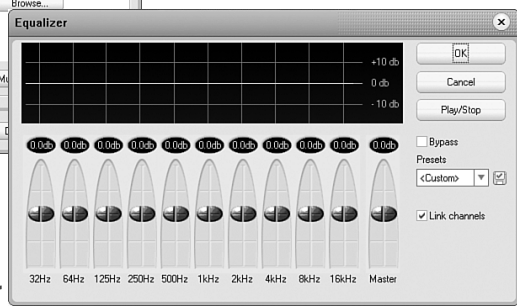
**6 Enhance Your Audio Tracks**

**7 Set Equalizer**









**6 Use LP and Tape Assistant to Edit Newly Captured Audio**

## 1 Capture Audio Using LP and Tape Assistant

In the Roxio Creator Suite 8 **Home** page, launch **LP and Tape Assistant** from the **project** pane under the **Audio** heading by selecting **Convert LPs/Tapes**. Follow the steps to capture your audio and click **Next**. If you are unfamiliar with this process, refer to **5 Capture Audio Using LP and Tape Assistant**.

## 2 Adjust the Track Separators

Here's your chance to really play with the tracks you've imported. Above your tracks is a header that labels each track you've recorded; in this case, **1 Recorded Audio**, **2 Recorded Audio**, and so forth. A line separates each track you've recorded. By holding your left mouse button and dragging those lines around, you can change the definition of the track boundaries. You can merge two or more tracks (or parts of tracks) or create a new clip entirely.

You can select any one of these tracks by highlighting the header. Or, by clicking anywhere inside the tracks, you can create a new selection line. You can leave it as a line in order to create a separator, or you can drag it to your preferred end point to highlight a larger selection. At any time you can preview your recorded audio by clicking the **Play** button at the bottom left of the screen to make sure you've selected the portion of the audio clip you want.

You can create a marker by right-clicking inside the track and choosing **Add/Remove Marker** from the context menu that appears. You can also do this by holding down the **Control** key and then clicking inside the audio. You create a new separator while leaving a marker in the place of your last separator. The marker appears as a little blue tab inside the dark upper border of the track view.

## 3 Edit a Track Using the Taskbar

You can edit a selected portion of the track by using the buttons on the top left of the **LP and Tape Assistant** window (called the *taskbar*). Listed in order, these buttons are

- **Undo**—Undo the last change you've made to the tracks
- **Redo**—Redo the last undone change
- **Rename**—Allows you to rename the selected track
- **Delete**—Allows you to delete a selected portion of the track

- **Add Track Separator**—Allows you to divide or crop tracks by adding a track separator
- **Delete Track Separator**—Allows you to combine tracks by deleting their separators

## ► KEY TERM

**Taskbar**—A group of icons that usually appears at the top of any application you are using, although it is also very common to see them down one side. These icons make it convenient to complete tasks just by pointing and clicking. A taskbar is sometimes called a toolbar or toolbox.

## ► TIPS

Right-clicking inside of the track gives you several options for more precisely selecting or moving around inside the tracks. You can also insert a silence of the duration of your choice by choosing the appropriate option from the context menu that appears.

Any time you have a portion of an audio clip selected, you can zoom to that selection by using the zoom tools in the upper right of your view or by right-clicking on the selection and choosing **Zoom to Selection**. When you are done editing your particular selection, you can zoom back to your full view by right-clicking and choosing **Zoom out Full**.

## 4 Click Tags to Add Audio Tags for All Tracks

After you have made your changes, click on the **Tags** button to add audio tags to your tracks. You can select any or all of your tracks and change their name, artist, album, genre, track number, and year. You can also assign track art. The **MusicID** button allows you to search the online database for your track information. This works if your tracks have been recorded in their entirety and you haven't made any major changes to them.

## 5 Clean Your Audio Tracks

When you have named your tracks, select the portion of the audio clip that you want to clean and click the **Clean** button on the **Clip Editor** toolbar. In the **Clean** dialog that opens, you can declick, decrackle, denoise, or add noise manually by selecting **Custom** (the default) at the bottom right of the pane and adjusting the sliders for each function until the cleaning effect is properly applied. You can also have the effect applied via **LP and Tape Assistant** presets by choosing a low, medium, or high setting from the bottom-right drop-down menu. Play the track that you are cleaning to hear the effect as you adjust it.

► **TIP**

Because the cleaning effects are layered on top of each other as you apply them, you should add the effects one at a time, adjusting each as necessary.

## **6 Enhance Your Audio Tracks**

After you have cleaned your audio, you can enhance it by selecting the **Enhance** button. You can choose to enhance the **Bass**, or make your audio brighter by enhancing the **Excite**. There are no presets for either enhance function, so you'll need to adjust the effects manually with the slider provided.

## **7 Set Equalizer**

When you are satisfied with the enhancement settings of your audio, click the **Equalizer** button to use Easy Media Creator's 10-band equalizer to change the levels of your audio track. You can use the presets or customize your settings by adjusting the levels manually. Customizing your settings is mostly a trial-and-error process, so change one setting at a time and preview your track to monitor the differences. There is a left and right channel indicator for each band. You can adjust each channel separately by deselecting the **Link Channels** option.

## **8 Fade Your Tracks In and Out**

After you have set the equalizer, you have the option to fade your tracks. Selecting the **Fade each track in & out** option fades the beginning and ending of each track within the editor for the specified amount of time. Use the + and – buttons to increase and decrease the duration of the fade, or type your preferred time in the box provided.

## **9 Click Next**

After you have completed your edits, click **Next**. This takes you to the final step within **LP and Tape Assistant**, where you have the option to burn your audio to CD or export it to a file on your hard disk. You are also given the option to continue editing your audio using the more advanced **Sound Editor** or to export the track to **Music Disc Creator** so it can be added to a project. For more information on exporting your audio, see **16 Export Audio**.

► **TIP**

You can preview your audio by using the play buttons on the bottom left of **LP and Tape Assistant**. Use the slider to choose where you would like to begin the playback, and use the volume indicator to mute (by clicking on the speaker icon) or change your volume.

## ► NOTE

As you add effects to your audio, you will notice **Bypass** and **Difference** check boxes in the effect adjustment windows. As you preview your audio, you can select **Bypass** to listen to your audio without the effect, or **Difference** to hear the difference the effect is having on the audio without the rest of the audio. Note that only the **Clean** dialog includes both a **Bypass** and a **Difference** check box. You can achieve the same effect as clicking **Difference** by simply deselecting **Bypass** when working in the other effects windows.

## 7 Convert Audio File Formats

### ✓ BEFORE YOU BEGIN

Chapter 1, “Start Here” (Review information about audio file types.)

### → SEE ALSO

- 1 Capture Music Tracks from a CD
- 2 Extract Audio Tracks from a DVD
- 8 Add Tags to Audio Tracks

So you have folders full of imported music of every file type, and you want to *convert* some of those files to another format. For instance, if you want to edit a file, using the WAV format is by far the best option, but keeping all your files in this format is unrealistic due to their size (about 10MB per minute of audio). A number of compressed audio formats can help you store your music more efficiently, and Easy Media Creator supports several of them.

There are plenty of opportunities within Easy Media Creator to convert your files from one type to another. When you are importing them, you can choose your capture settings. If you load your Audio CD project with MP3s, Easy Media Creator automatically converts them to WAV files so you can listen to your disc on a conventional CD player. But if your goal is simply to change one file format to another, the following steps help you do so easily.

## ► KEY TERM

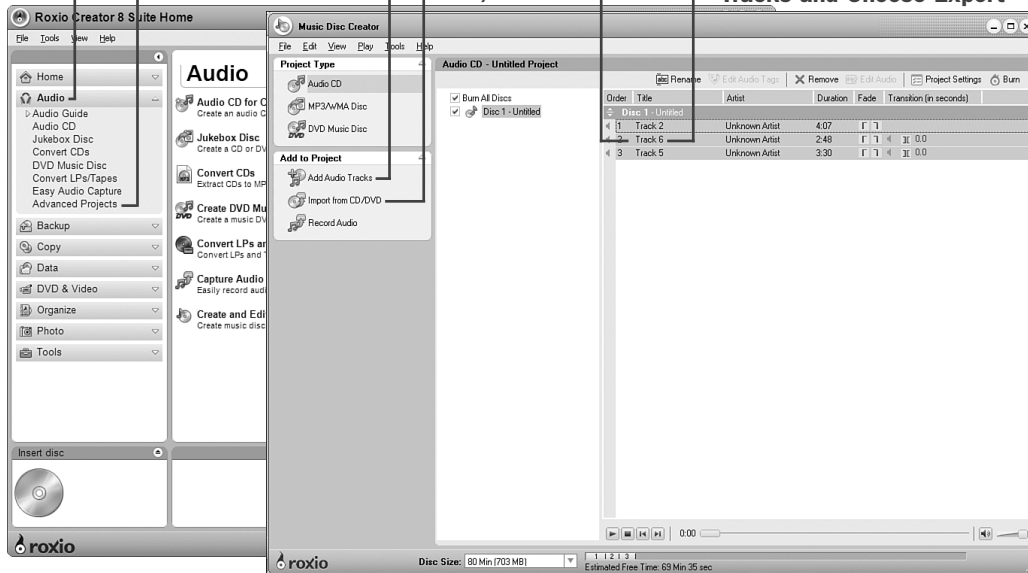
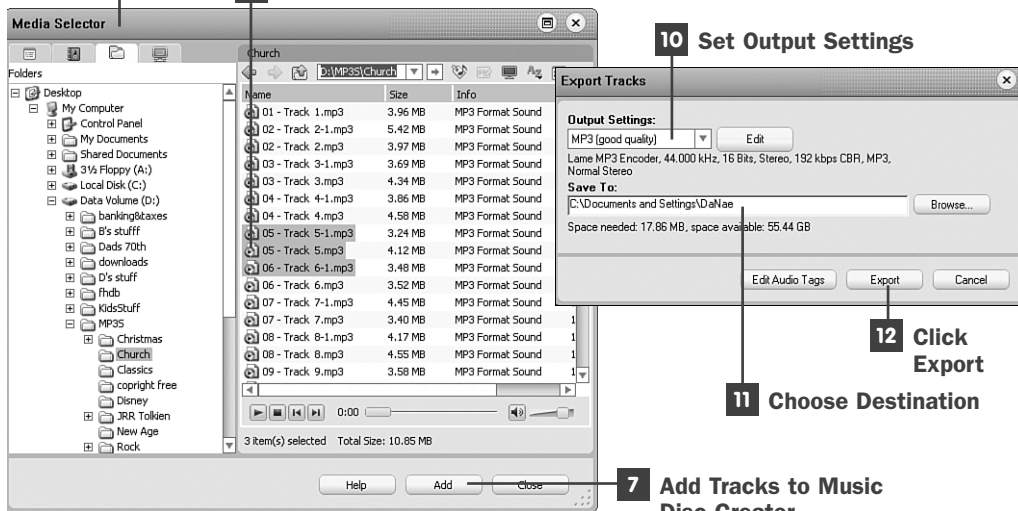
**Convert**—To change a file from one format to another.

### 1 Select Audio in the Project Pane

Select the **Audio** button in the **project** pane to open the **Audio** menu.

### 2 Select Advanced Projects

Selecting the **Advanced Projects** option displays the **Music Disc Creator** project wizard. You use this wizard to determine what audio tracks you would like to convert, from what source, and where you will save them.

**1 Select Audio in the Project Pane****2 Select Advanced Projects****3 Select Add Audio Tracks Or...****4 ...Select Import from CD/DVD****8 Select Tracks Inside Music Disc Creator****9 Right-click on Selected Tracks and Choose Export****5 Browse to Find Audio Files****6 Select Tracks to Be Converted****10 Set Output Settings****12 Click Export****11 Choose Destination****7 Add Tracks to Music Disc Creator****7 Convert Audio File Formats**



### 3 Select Add Audio Tracks Or...

After you have launched **Music Disc Creator**, select the **Add Audio Tracks** option to open the **Media Selector** window. This enables you to browse for audio files already saved on your computer (or network drives).

### 4 ...Select Import from CD/DVD

After you have launched **Music Disc Creator**, select the **Import from CD/DVD** option to open **Media Manager**. This allows you to import tracks from an audio CD or to take the audio from a DVD track. This is an alternative method of extracting audio from a DVD. The other method is described in **2 Extract Audio Tracks from a DVD**.

### 5 Browse to Find Audio Files

After you have opened **Media Manager**, you need to browse through your drives and files to find the audio you would like to import. If you are searching for a file, it can be found on your hard disks. If you are importing from a CD or DVD, you need to select your CD/DVD drive.

### 6 Select Tracks to Be Converted

After you have browsed to the location of the tracks that you would like to edit, you can select one or more tracks to be imported into **Music Disc Creator**. Preview your tracks using the playback control buttons on the lower part of the screen. You can select multiple tracks by holding down the **Control** key as you select each one.

### 7 Add Tracks to Music Disc Creator

When you have selected the tracks you would like to convert, click the **Add** button at the bottom of your window. This does not automatically close **Media Manager**; you can continue to add files until you are finished. When you are finished, select **Close**.

### 8 Select Tracks Inside Music Disc Creator

When you have imported the tracks you are going to convert into **Music Disc Creator**, select them by clicking on each one while you hold the **Control** key down (or the **Shift** key if they are shown contiguously in **Media Manager**) or drag the mouse over them.

## 9 Right-click on Selected Tracks and Choose Export

With your mouse positioned over any part of the selected track, right-click to bring up the **Edit** menu. Choose **Export** to bring up the **Export Tracks** window.

## 10 Set Output Settings

After you have brought up the **Export Tracks** window, you need to choose the type of file to which you would like to convert your tracks. A WAV file is the highest quality file available. It is also the best option if you are planning to edit the audio file in any way. An MP3 or WMA file is the popular choice for use with your computer or digital media player. They take up a significantly smaller amount of space but can still be very good quality. Either one is a good choice; it just depends on your preference. If you are limited on space and don't mind giving up quality, choose the lower-quality settings for the MP3 or WMA formats.

For the advanced user, you can also customize your audio. This option enables you to apply your own combination of settings, including an alternate file format, encoder type, bit rate, and file location. To define custom settings, click the **Edit** button to the right of the **Output settings** menu.

## 11 Choose Destination

When you have decided on your export settings, choose the location to which you would like the file saved. Make this a folder that is conveniently accessible and easy to remember. When it comes time to add these tracks to a project, you'll want to be able to find them again.

### ► NOTE

You can change the tags of your audio files in either **Music Disc Creator** or in the **Export** window by choosing the **Edit Audio Tags** button. If you would like help with this process, see **8 Add Tags to Audio Tracks**.

## 12 Click Export

When you are sure your settings are correct, click **Export** to save your files. You have successfully converted your files to a new format.

## 8 Add Tags to Audio Tracks

### → SEE ALSO

**120** Auto-fill the Label Menu from Your Disc (on the Web)

Editing your audio *tags* can be done in almost any interface involving individual audio tracks, not only in Easy Media Creator, but also in Windows. All you need to do is select the tracks you would like to add tags to and select the **Edit Audio Tags** option. This brings up the **Edit Audio Tags** window where you have quite a few options to make changing the tag on your tracks as easy as possible.

### ► KEY TERM

**Tags**—Embedded data for a particular file. A tag can be added to an audio file, a data file, a photo file, or a video file. A tag can also have several components, such as a date, title, and so forth.

### ► NOTE

Changing the audio tags does not change the name of your audio file. The tags are embedded inside your audio track and are recognized by Easy Media Creator as well as other playback software and devices. Windows Media Player displays audio tags, as will most digital audio players and newer CD players.

### 1 Select Audio Track

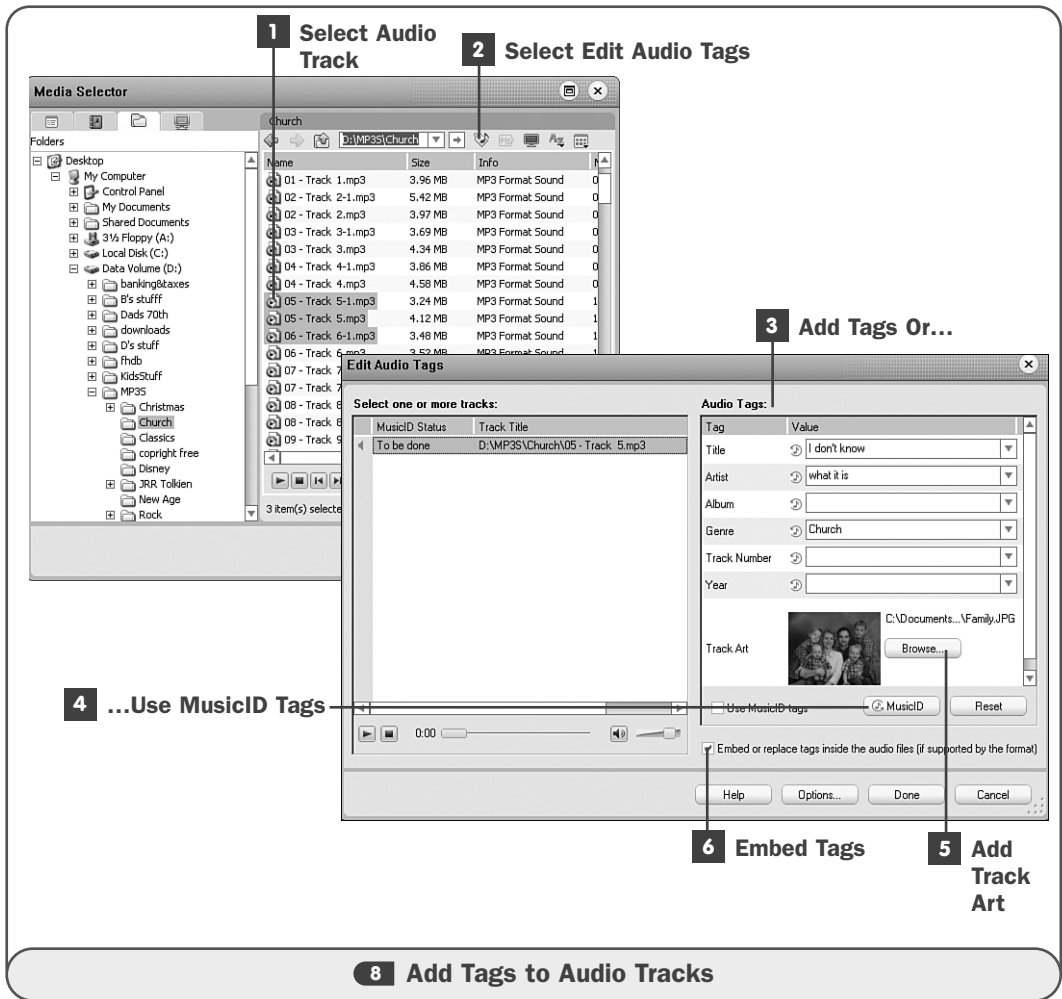
Select your audio track from anywhere in Easy Media Creator or even anywhere on your computer.

### 2 Select Edit Audio Tags

If you are in Easy Media Creator, chances are you have an **Edit Audio Tags** icon in your taskbar; simply click on it. If you don't see the **Edit Audio Tags** option or you are browsing through Windows, right-click on your selected tracks and select **Edit Audio Tags** from the menu. This brings up the **Edit Audio Tags** window.

### 3 Add Tags Or...

After you have launched the **Edit Audio Tags** window, you see a list of your selected tracks in the left side of the window. You can select any or all of these tracks and change their name, artist, album, genre, track number, and year by filling in the appropriate field. Preview your tracks by using the playback buttons on the bottom of the window.



#### 4 ...Use MusicID Tags

You can also assign tags to your tracks by using MusicID. The **MusicID** button allows you to search the Gracenote online database for your track information. This works if your tracks have been recorded in their entirety and you haven't made any major changes to them.

The MusicID status of each track is listed in the window along with the track name. You will find one of the following status indicators:

- **To be done**—MusicID has not been used to identify the track.
- **Identified**—One matching music database entry has been found by MusicID.

- **Multiple matches**—More than one music database entry matches your audio track. If this is the case, the status listing **Multiple matches** is a highlighted link. Click on this link to open up a window listing the matches found. If the correct name of your track is there, select it and click **OK**.
- **Could not identify**—Your audio track did not match any of the database entries. In this instance, you have to enter your tag manually.

## 5 Add Track Art

You can also add track art to your audio tag. Browse for the picture that you would like to associate with the track and click **OK**.

## 6 Embed Tags

Put a check mark next to the **Embed or replace tags inside the audio file** option if you would like your audio tags to be permanently embedded into your audio file. This enables other applications and software to recognize your audio tag.

## 9 Add Tracks to Sound Editor

### → SEE ALSO

- 1 Capture Music Tracks from a CD
- 2 Extract Audio Tracks from a DVD
- 4 Capture Audio Using Easy Audio Capture
- 5 Capture Audio Using the LP and Tape Assistant
- 6 Use the LP and Tape Assistant to Edit Newly Captured Audio

**Sound Editor** is the full-fledged audio-editing application within Easy Media Creator. You can edit, mix, and add fun effects to your audio files using this application.

**Sound Editor** has all the capabilities of **LP and Tape Assistant** and **Quick Sound Editor**, plus a whole lot more. In **LP and Tape Assistant** you capture your audio file and then edit it. **Quick Sound Editor** is launched after the tracks you would like to edit are in place in a project, but **Sound Editor** is launched separately and requires you to import your audio files.

**1 Launch Sound Editor**

**2 Select Add Audio File Or...**

**3 ...Select Import from CD/DVD**

**4 Browse to Find Audio Files**

**5 Select Tracks to Be Edited**

**6 Click OK Or...**

**7 ...Select Record Audio**

**8 Click Done**

**9 Add Tracks to Sound Editor**

The screenshots illustrate the process of adding audio tracks to the Sound Editor. The first screenshot shows the Sound Editor window with the 'Add to Project' menu open. The second screenshot shows the 'Media Selector' dialog box with a list of audio files. The third screenshot shows the 'Media Selector' dialog box with a list of tracks. The fourth screenshot shows the 'Media Selector' dialog box with a list of tracks. The fifth screenshot shows the 'Record Audio' dialog box. The sixth screenshot shows the 'Record Audio' dialog box. The seventh screenshot shows the 'Record Audio' dialog box. The eighth screenshot shows the 'Record Audio' dialog box. The ninth screenshot shows the 'Record Audio' dialog box.

## 1 Launch Sound Editor

The easiest way to launch **Sound Editor** is in the Easy Media Creator **Home** page. Choose the **Home** menu in the **project** pane, select **Applications**, and then select **Sound Editor** in the **Applications** window.

## 2 Select Add Audio File Or...

After you have launched **Sound Editor**, select the **Add Audio File** option to open the **Media Selector** window. This allows you to browse for audio files already saved on your computer (or network drives).

## 3 ...Select Import from CD/DVD

After you have launched **Sound Editor**, select the **Import from CD/DVD** option to open **Media Manager**. This allows you to import tracks from an audio CD or to take the audio from a DVD track. This is an alternative method of extracting audio from a DVD. The other method is described in

**2 Extract Audio Tracks from a DVD.**

## 4 Browse to Find Audio Files

After you have opened **Media Manager**, you need to browse through your drives and files to find the audio you would like to import. If you are searching for a file, it is found on your hard discs. If you are importing from a CD or DVD, you need to select your CD/DVD drive.

## 5 Select Tracks to Be Edited

After you have browsed to the location of the tracks that you would like to edit, you can select one or more tracks to be imported into **Sound Editor**. Preview your tracks using the playback control buttons on the lower part of the screen. You can select multiple tracks by holding down the **Control** key as you select each one.

## 6 Click OK Or...

When you have selected the tracks you would like to edit, click **OK**.

## 7 ...Select Record Audio

After you have launched **Sound Editor**, select the **Record Audio** option to open the **Record Audio** window. The **Record Audio** interface is almost exactly the same as the **Easy Audio Capture** interface described in **4 Capture Audio Using Easy Audio Capture**. The only additional feature of the **Record Audio** interface is the **Add Track Separator** button. This allows you to split your audio into two or more tracks as it is being recorded.

► **TIP**

If you are planning to record several tracks, it is much more convenient to use **LP and Tape Assistant**. You can set options within **LP and Tape Assistant** that automatically detect and separate your tracks. By doing this, you won't be required to closely monitor your recording.

**8 Click Done**

When you are finished recording the audio you would like to edit, click **Done**.

**10 Split, Crop, and Join Tracks**

✓ **BEFORE YOU BEGIN**

**9** Add Tracks to Sound Editor

→ **SEE ALSO**

**11** Fade Volume of an Audio Track  
**15** Mix Multiple Audio Tracks

There are two windows to view your tracks, the **Clip Editor** and the **Mix Editor**. Use the **Clip Editor** to edit the track and the **Mix Editor** to position your clips.

**10**

**1 Add Markers**

Launch **Sound Editor** and add the audio tracks you would like to edit. Click anywhere inside the clips shown in the **Clip Editor** to place a selection line. Right-click on the selection line and select **Add/Remove Marker**. This adds a marker to your audio track. Of course, you can remove a marker in the same way.

► **TIPS**

A faster way to add markers to your clip is to place the selection line and then use the **M** key to add each marker.

You can also automatically detect tracks within your audio file to add markers to it. This is helpful if you have recorded audio that contains more than one music track. Select **Track Detection** from the **Tools** drop-down menu.

**2 Click on Split Clip**

After you have set markers in place, click on **Split Clip**. This opens the **Split Clip** window.



**2** Click on Split Clip

**5** Cut Unwanted Clips

**1** Add Markers

**3** Select Current Position or Markers

**7** Select Multiple Tracks

**6** Position Clips for Joining

**4** Crop to Selection

**8** Click Join Clips

**10** Split, Crop, and Join Tracks

### 3 Select Current Position or Markers

The **Split Clip** window gives you the option to split the clip at your current position or at all markers. Choose which option you would like and the operation is completed.

### 4 Crop to Selection

If you are only interested in editing a small portion of the track, select that portion and choose **Crop to Selection** in the **Edit** menu. This *crops* the picture and deletes anything that is not selected.

## ► KEY TERM

**Crop**—To delete the unselected portion of a file.

## ► TIP

Any time you have something selected, you can zoom to that selection by using the zoom tools in the upper right of your view or by right-clicking on the selection and choosing **Zoom to selection**. When you are done editing your particular selection, you can zoom back to your full view the same way.

### 5 Cut Unwanted Clips

Select the portion of track you would like to crop in the **Clip Editor** and click the **Cut** option in the taskbar.

### 6 Position Clips for Joining

Using the **Mix Editor**, position your clips in the order you would like them joined. They don't need to be right next to each other for the joining to work.

### 7 Select Multiple Tracks

After you have positioned your clips, select the tracks you would like to join by holding down the **Control** key and clicking on each one.

### 8 Click Join Clips

After you have selected the clips you would like to join, click **Join Clips**. This pulls the clips together and seams them as if there had never been a split.

## 11 Fade Volume of an Audio Track

### ✓ BEFORE YOU BEGIN

9 Add Tracks to Sound Editor

### → SEE ALSO

12 Set the Right and Left Audio Track

Setting the volume and fading your audio tracks are two of the most obvious changes you can make. Fading a clip into the next one creates a very nice transition between the two. Of course, that is an obvious use of volume control. You can change the volume—or the balance—of any portion of your track for any number of reasons. You might want to adjust the volume in order to add a sound effect or change the balance to create a sound effect.

## ► NOTE

These steps offer a more precise way to adjust the volume of your track. You can also adjust the volume manually by right-clicking on the **Volume** or **Balance** windows and placing one or more nodes on the line. You can move these nodes at will to adjust the volume or balance settings.

### 1 Select the Track to Fade

Select the track you would like to fade by clicking on it in the **Mix Editor**; this places it in the **Clip Editor**.

### 2 Select Area of Track to Fade

Choose a portion of the track to fade by either placing a selector line in the place that you would like to fade or by selecting a portion of the track.

### 3 Click the Fading & Volume Button

After you have selected the portion of the track you would like to fade, click the **Fading & Volume** button. The **Fading & Volume** menu is displayed.

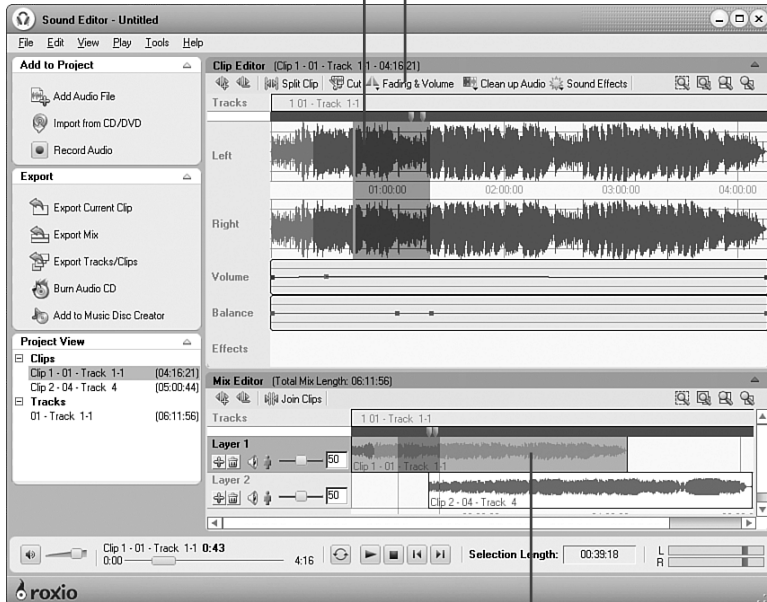
### 4 Choose Your Fading Option

The **Fading & Volume** menu has the following options:

- **Fade In**—Used primarily at the beginning of a track (although it can be used anywhere), this option brings the track from silence up to its set volume level. If you have placed a selector line without highlighting a portion of the track, the fade in carries through the rest of the track, coming up to its set volume in the end.

**2** Select Area of Track to Fade

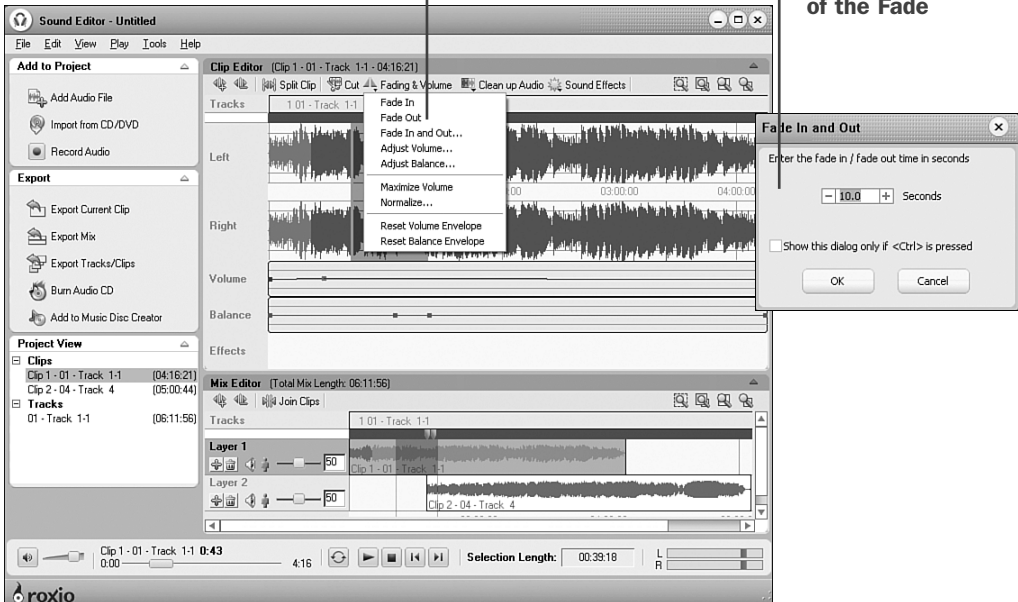
**3** Click the Fading & Volume Button



**1** Select the Track to Fade

**4** Choose Your Fading Option

**5** Set the Duration of the Fade



**11** Fade Volume of an Audio Track

- **Fade Out**—Used primarily at the end of a track (although it can be used anywhere), this option brings the track from its set volume level down to silence. If you have placed a selector line without highlighting a portion of the track, the fade out carries through the rest of the track, finally fading to silence in the end.
- **Fade In and Out**—This option can be used for a variety of reasons. For example, you can soften the transition between merged tracks, or soften a section of music to allow for a voice-over. If you have placed a selector line without highlighting a portion of the track, you are prompted to enter the duration of the fade effect in seconds.
- **Adjust Volume**—This option allows you to adjust the volume of your selected track.
- **Adjust Balance**—This option allows you to adjust the volume *balance* of the right and left channels at different volume settings.

## ► KEY TERM

**Balance**—The volume of the right channel relative to the volume of the left channel of audio.

After you have selected your option, the fade takes effect.

## 5 Set the Duration of the Fade

If you selected **Fade In and Out**, you are prompted to set the duration of the fade in seconds. Set the duration and click **OK**.

## ► TIP

If you are dissatisfied with your volume or balance settings, you can quickly reset these values by choosing **Reset Volume Envelope** or **Reset Balance Envelope** in the **Fading & Volume** menu.

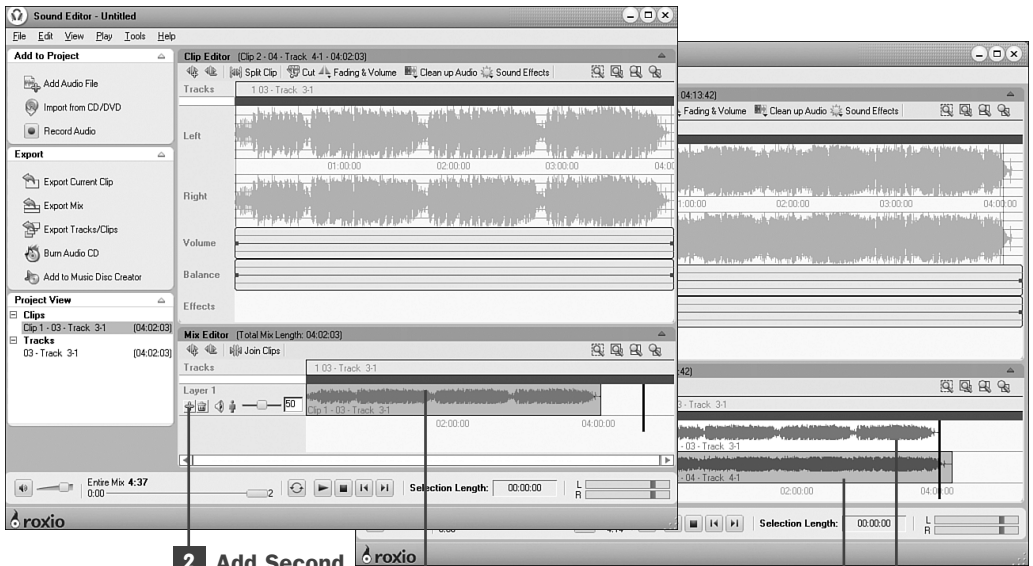
## 12 Set the Right and Left Audio Track

### ✓ BEFORE YOU BEGIN

- 9 Add Tracks to Sound Editor

### → SEE ALSO

- 11 Fade Volume of an Audio Track
- 15 Mix Multiple Audio Tracks

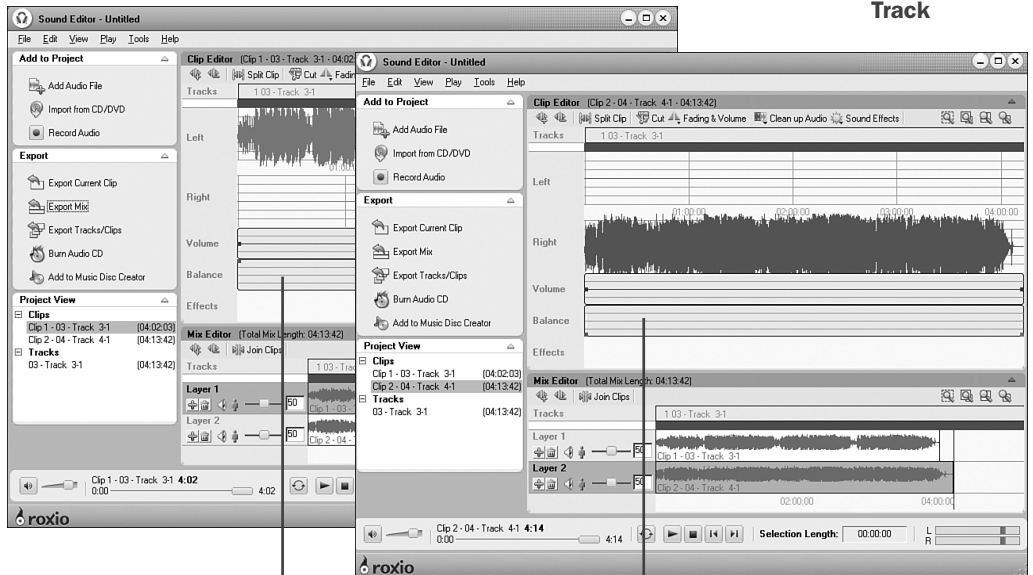


**2** Add Second Layer

**1** Add Right Audio Track

**4** Position Tracks

**3** Add Left Audio Track



**5** Adjust Balance on Right

**6** Adjust Balance on Left

**12** Set the Right and Left Audio Track

In order to set a right and left audio track, you need two tracks that coincide with each other. You can do this by adding layers to your project. This is really a very simple task that gives you the capability to add fun effects to your audio.

### 1 Add Right Audio Track

Add the audio track you would like to play in the right channel to **Sound Editor**.

### 2 Add Second Layer

Add *layers* to your **Sound Editor** project by clicking on the **Add Layer** button (the plus sign) in the left of the **Mix Editor** under the layer name.

## ► KEY TERM

**Layer**—A separate component within a larger project that can be manipulated independently of the other components of the project.

### 3 Add Left Audio Track

After you add a second layer, select it. Add the audio track for the left channel.

### 4 Position Tracks

Position your tracks in the desired location. You can do this simply by dragging them into place inside the **Mix Editor**.

### 5 Adjust Balance on Right

Select the top track, displaying it in the **Clip Editor**. Set the balance to the right channel by dragging the line in the balance area all the way down.

### 6 Adjust Balance on Left

Select the bottom track, displaying it in the **Clip Editor**. Set the balance to the left channel by dragging the line in the balance area all the way up.

## 13 Clean, Enhance, and Equalize an Audio Track

### ✓ BEFORE YOU BEGIN

- 9 Add Tracks to Sound Editor

### → SEE ALSO

- 6 Use LP and Tape Assistant to Edit Newly Captured Audio

2

Select Clean up Audio

3

Clean Audio

6

Click OK

1

Select Track

4

Enhance Audio

6

Click OK

5

Adjust Audio Equalization

4

Enhance Audio

2

Select Clean up Audio

13

Clean, Enhance, and Equalize an Audio Track

Sound Editor - Untitled

File Edit View Play Tools Help

Add to Project

Add Audio File

Import from CD/DVD

Record Audio

Export

Export Current Clip

Export Mix

Export Tracks/Clips

Burn Audio CD

Add to Music Disc Creator

Project View

Clips

Clip 1 - 03 - Track 3-1 [04:02:03]

Tracks

03 - Track 3-1 [04:02:03]

Clip Editor [Clip 2 - 04 - Track 4-1 - 04:02:03]

Tracks

1 03 - Track 3-1

Left

Right

Volume

Balance

Effects

Mix Editor [Total Mix Length: 04:02:03]

Tracks

Layer 1

Clip 1 - 03 - Track 3-1

02:00:00 04:00:00

Entire Mix 4:37 0:00

Selection Length: 00:00:00

roxi

Enhancer

0

OK

Cancel

Play/Stop

Bypass

Bass

Excite

Level

5

Adjust Audio Equalization

Equalizer

OK

Cancel

Play/Stop

Bypass

Presets

<Custom>

Link channels

0.0db 0.0db 0.0db 0.0db 0.0db 0.0db 0.0db 0.0db 0.0db 0.0db

32Hz 64Hz 125Hz 250Hz 500Hz 1kHz 2kHz 4kHz 8kHz 16kHz Master

Sound Editor - Untitled

File Edit View Play Tools Help

Add to Project

Add Audio File

Import from CD/DVD

Record Audio

Export

Export Current Clip

Export Mix

Clip Editor [Clip 2 - Track 5 - 03:30:16]

Tracks

1 Track 5

Left

Right

Volume

Effects

Clean

Enhancer

Equalizer

Remove Effect

Length: 03:30:16

1 Track 5

Clip 1 - Track 5

3:30

Selection Length: 00:00:00



### 1 Select Track

Select the track (or portion of track) you would like to clean, enhance, or equalize by clicking on it in the **Mix Editor**.

### 2 Select Clean up Audio

After the track is selected, click on the **Clean up Audio** button in the **Clip Editor** taskbar to bring up the menu. From this menu you can choose **Clean**, **Enhancer**, or **Equalizer**.

### 3 Clean Audio

After you have opened the **Clean up Audio** menu, click the **Clean** button. In the **Clean** dialog that opens, you can declick, decrackle, denoise, or add noise manually by selecting **Custom** (the default) at the bottom right of the pane and adjusting the sliders for each function until the cleaning effect is properly applied. You can also have the effect applied via **Sound Editor** presets by choosing a low, medium, or high setting from the bottom-right drop-down menu. Play the track that you are cleaning to hear the effect as you adjust it.

### ► TIP

Because the cleaning effects are layered on top of each other as you apply them, you should add the effects one at a time, adjusting each as necessary.

### 4 Enhance Audio

After you have cleaned your audio, you can enhance it by selecting the **Enhancer** option. You can choose to enhance the **Bass**, or make your audio brighter by enhancing the **Excite**. There are no presets for either enhance function, so you need to adjust the effects manually with the slider provided.

### 5 Adjust Audio Equalization

When you are satisfied with the enhancement settings of your audio, choose the **Equalizer** option to use Easy Media Creator's 10-band equalizer to change the levels of your audio track. You can use the presets, or customize your settings by adjusting the levels manually. Customizing your settings is mostly a trial-and-error process, so change one setting at a time and listen to your track to monitor the differences. There is a left and right channel indicator for each band. You can adjust these separately by deselecting the **Link channels** option.

6 Click OK

After you are done with each of these options, click **OK** to close the windows.

► NOTE

As you add effects to your audio, you will notice a **Bypass** and (sometimes) a **Difference** selection in the effect adjustment windows. As you preview your audio, you can select **Bypass** to listen to your audio without the effect, or **Difference** to hear the difference the effect is having on the audio without the rest of the audio. Where **Difference** isn't available, simply deselect **Bypass** to preview the audio with the effect applied.

14 Add Effects to an Audio Track

✓ BEFORE YOU BEGIN

- 9 Add Tracks to Sound Editor

→ SEE ALSO

- 10 Split, Crop, and Join Tracks
- 11 Fade Volume of an Audio Track
- 12 Set the Right and Left Audio Track
- 13 Clean, Enhance, and Equalize an Audio Track
- 15 Mix Multiple Audio Tracks

14

After you have cleaned up your audio, you might want to add effects. Effects allow you to apply a filter to the audio that adjusts the sound of the track. You can apply effects to set a uniform volume level for tracks, improve the quality of the track, convert a track from mono to stereo, or just add a fun element to the sound of the audio.

**Sound Editor** allows you to add multiple effects to the same track, a portion of the track, or multiple portions of tracks. This feature allows you to be very creative in making the most of the effects available for audio tracks.

1 Normalize Track

The one effect that you will want to use on virtually every audio track is **Normalize**. The **Normalize** effect enables you to give audio tracks a uniform level of volume by increasing the loudest level in the track to match a specific range in the sound editor. The entire volume level of the track is either increased or decreased to make the loudest part match the maximum level you specify. You can normalize your track by following these steps:

1. Select the Track

If you have multiple tracks loaded in the project, make sure you select the one you want to normalize or apply audio effects to.

## 2. Select Normalize

Select the **Fading & Volume** button and choose **Normalize**. This brings up the **Normalize** effect window.

## 3. Set Volume Level

Use the slider to adjust the volume to the level desired for audio in this project.

## 4. Preview the Audio

You can preview the loudness by pressing the **Play/Stop** button. While listening to the audio, you can select the **Bypass** check box to quickly bypass the normalization effect to hear the original audio.

## 5. Click OK

After you have the normalize level set to the appropriate value, click **OK**.

### ► NOTE

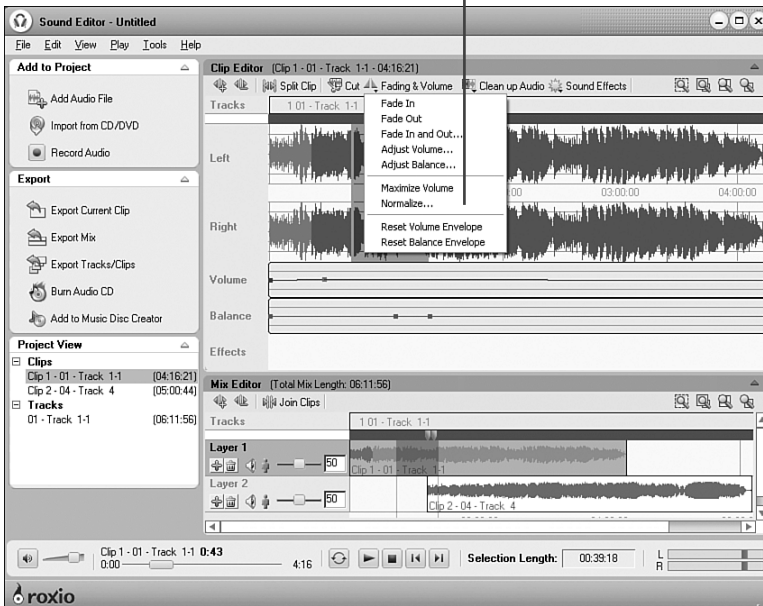
You can also maximize the volume of a clip. Maximizing the clip renders each layer to play at the same volume, and can be a critical function if the volume variance is easily distinguishable. This is not always recommended, however. If the volume of a clip is very low, you might cause the audio to become distorted or clipped if you maximize it. Maximized clips also tend to be a little bit louder than normal audio CDs, forcing you to adjust the volume of the playback device.

## 2 Add Effects

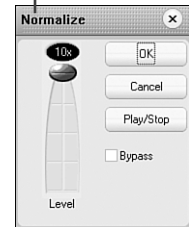
With the track selected, select **Sound Effects** and choose one of the following effects to apply to the audio track. You can also apply effects to a specific portion of the track by highlighting only that portion of the track:

- **Alienizer**—Adds a metallic timbre to the sound.
- **DeVoicer**—Attempts to remove voices from the audio.
- **Digital Hall**—Adds the echo effect that you might get in a large building.
- **Maturizer**—Adds static and other effects to make audio sound like an old LP or radio signal.
- **Mono to Stereo**—Changes mono audio to sound like stereo with different tracks in each speaker.
- **Parametric Equalizer**—Allows you to equalize the audio with an easy-to-use interface.

1 Normalize Track

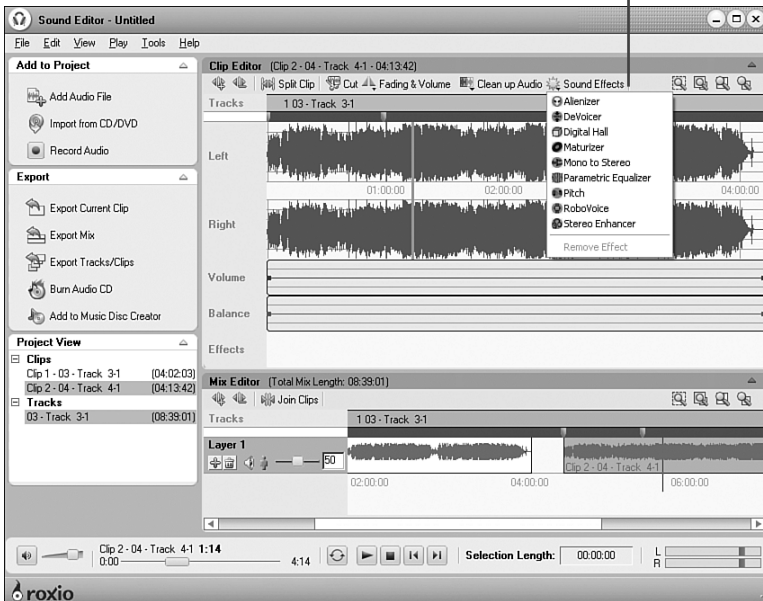


1 Normalize Track

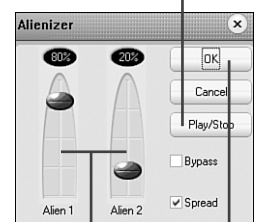


14

2 Add Effects



3 Preview the Effect



4 Adjust the Effect Settings

5 Click OK

- **Pitch**—Adjusts the pitch of the audio.
- **RoboVoice**—Adds an electronic timbre to the sound.
- **Stereo Enhancer**—Amplifies the stereo effect of the audio to make it more apparent.

### 3 Preview the Effect

You can preview the loudness by pressing the **Play/Stop** button. While listening to the audio, you can select the **Bypass** check box to quickly bypass the normalization effect to hear the original audio.

### 4 Adjust the Effect Settings

Each effect has its own controls, allowing you to adjust what the effect does to the audio. Adjust the effects while the audio is playing and tweak the effect until you get the best result.

### 5 Click OK

After you have the desired effect, click **OK**. You can add additional effects to the track by repeating steps 2 through 5.

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#### ► NOTE

As you add effects to your tracks, you can undo them at any time by selecting **Edit, Undo** in the **File** menu. Keep in mind that although you can continue to undo several actions, your effects are undone in the reverse order that you applied them.

#### ► TIP

You should always normalize all audio tracks for a project to the same level. This makes the volume of each track match and removes the risk of having one track sound much softer than the other tracks.

## 15 Mix Multiple Audio Tracks

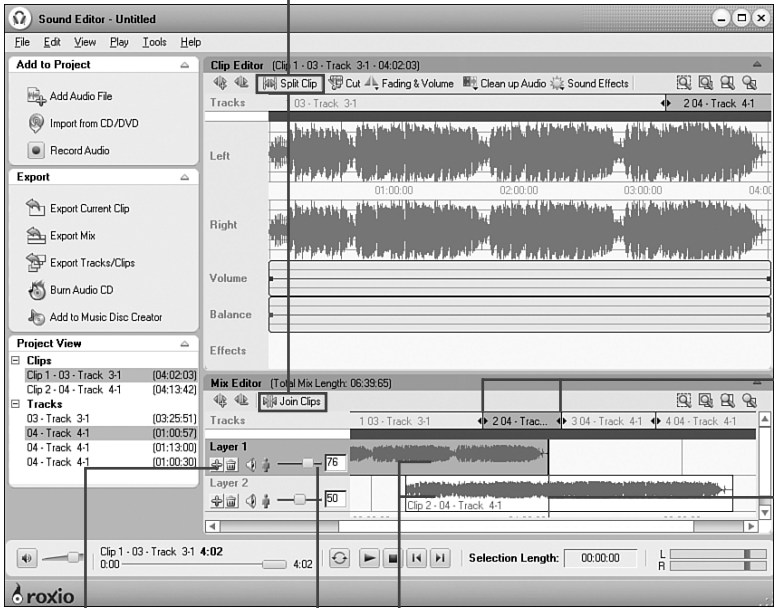
### ✓ BEFORE YOU BEGIN

- 9 Add Tracks to Sound Editor
- 10 Split, Crop, and Join Tracks

### → SEE ALSO

- 11 Fade Volume of an Audio Track
- 12 Set the Right and Left Audio Track
- 13 Clean, Enhance, and Equalize an Audio Track
- 14 Add Effects to an Audio Track

3 Edit Individual Clips



6 Add Track Separators

4 Position Clips

15

1 Add Layers

2 Add Audio Tracks

5 Adjust Layer Weight



6 Add Track Separators

15 Mix Multiple Audio Tracks

## 1 Add Layers

Add Layers to your **Sound Editor** project by clicking on the **Add Layer** button (the plus sign) in the left of the **Mix Editor** under the layer name.

## 2 Add Audio Tracks

After you have added an appropriate number of layers, add the audio tracks you would like to mix. Select the layer you would like the track dropped into before you import it.

## 3 Edit Individual Clips

After you have imported your clips, edit your clips individually to suit your needs. For example, you probably want to crop or join some of your clips or set the channels on each clip.

## 4 Position Clips

Position your tracks in the desired location. You can do this simply by dragging them in place inside the **Mix Editor**.

## 5 Adjust Layer Weight

After you have edited each clip, adjust the weight of each layer by moving the slider in the layer window back and forth. The heavier the layer weight, the louder that layer sounds in comparison to the other layers.

## 6 Add Track Separators

After you are done mixing your clips, you can add track separators to create new tracks within your mix. Position the selection line in the location that you would like to divide the tracks. You can do this in the **Clip Editor** or the **Mix Editor**. Right-click on the selection line and choose **Add New Track**. The clip is split and identified as two separate tracks.

## ► NOTE

After you have edited and mixed your audio to your satisfaction, you want to save your new tracks. Use the **Export** options on the right of the **Sound Editor** window to export your tracks to a file, to a **Music Disc Creator** project, or to burn it onto a CD.

16 Export Audio

✓ BEFORE YOU BEGIN

Chapter 1, “Start Here” (Review information about audio file types.)

→ SEE ALSO

- 6 Use LP and Tape Assistant to Edit Newly Captured Audio
- 20 Create and Burn an Audio CD Project

After you are done editing your audio in **Sound Editor**, there are many options for exporting it. You can export just an edited clip or track, export the whole mix, burn the mix to CD, or add it to **Music Disc Creator**. You can also save an unfinished project so you can open and finish it later.

It is important to review the information on file formats in Chapter 1, “Start Here,” so you know what your best option is for saving your mix.

Also, be sure to choose a destination for your files that is organized and easy to find so you can find the files when it comes time to add them to a project.

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1 Save Sound Editor Project

If you would like to save an unfinished project, choose **Save Project** from the **File** menu. This brings up the standard **Save As** window where you are able to choose a file name and destination. The file will have a **.dmse** extension that enables **Sound Editor** to locate it when you ask the program to open an existing project.

2 Export Current Clip

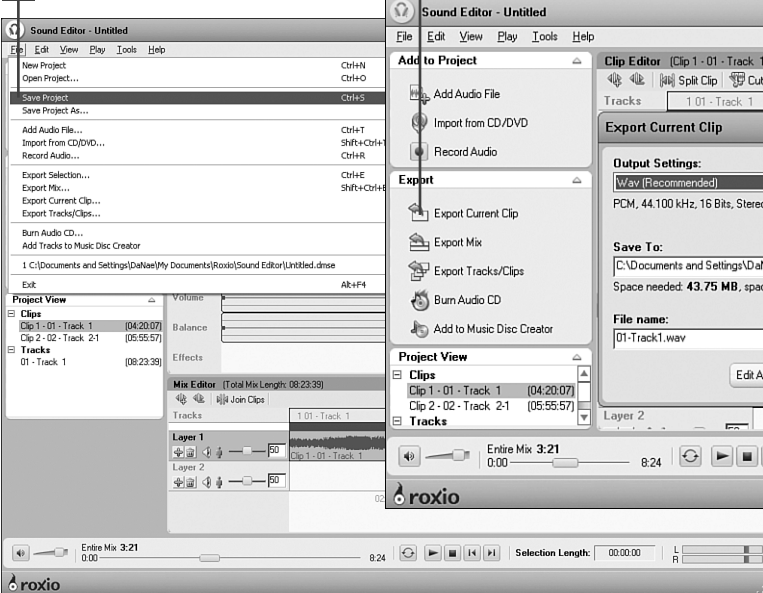
If you would like to save a single edited clip, select the clip you would like to export and click **Export Current Clip** in the **Export** menu to open the **Export Current Clip** window. You can choose the file format you would like to save your clip to, the destination, and the name. After you are finished selecting these options, click **Export**.

3 Export Mix

If you would like to save the mix you have created, click **Export Mix** in the **Export** menu to open the **Export Mix** window. You can choose the file format you would like to save your clip to, the destination, and the name. After you are finished selecting these options, click **Export**.



## 1 Save Sound Editor Project



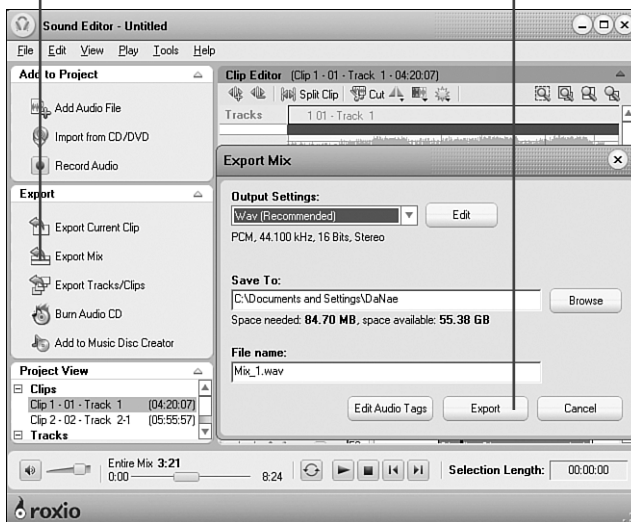
## 2 Export Current Clip

## 2 Export Current Clip

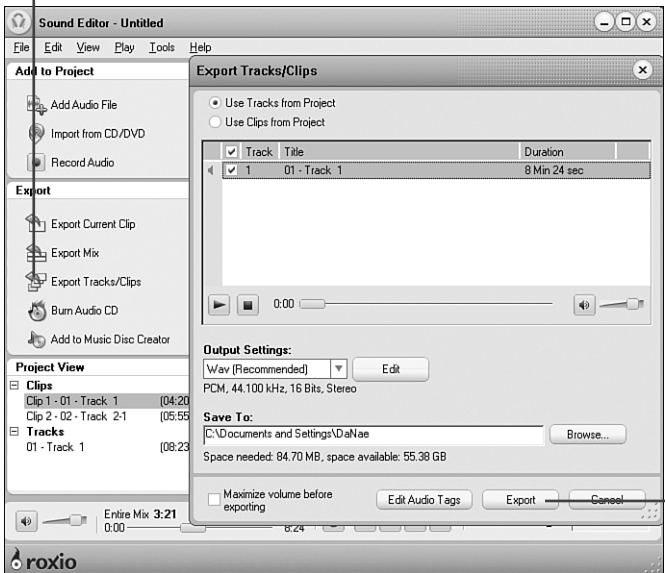


## 3 Export Mix

## 3 Export Mix



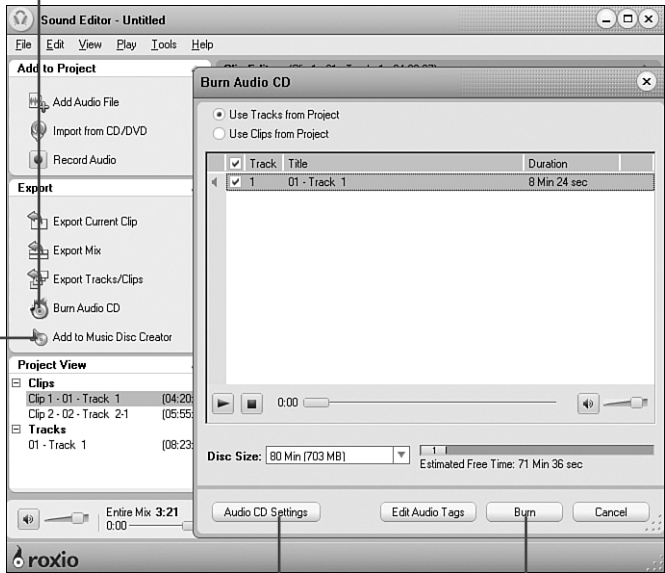
4 Export Tracks/Clips



4 Export Tracks/Clips

16

5 Burn Audio CD



6 Add to Music Disc Creator

5 Burn Audio CD

#### 4 Export Tracks/Clips

To save one or more tracks or clips from your project, click **Export Tracks/Clips** in the **Export** menu to open the **Export Tracks/Clips** window. In this window you can choose whether to export the tracks or the clips and you can deselect any that you do not want to export. Choose the file format you would like to save your clip to, the destination, and the name. After you are finished selecting these options, click **Export**.

#### 5 Burn Audio CD

To burn your mix to a CD, click **Burn Audio CD** in the **Export** menu to open the **Burn Audio CD Wizard**. You can use the tracks or the clips from the project and deselect any tracks that you do not want burned. By clicking the **Audio CD Settings** button, you can name the disc and the artist and choose to maximize the volume as the CD is being burned to ensure that the audio is burned at the same level. In this settings window you can also choose to have CD-text information stored on the disc. Make sure that you will have enough room on your CD to hold the tracks, and place an empty CD in your burner. When you are finished with the settings, click **OK** to exit the settings window, and then click **Burn**.

#### 6 Add to Music Disc Creator

To add your mix to an advanced audio project as a track, click **Add to Music Disc Creator** in the **Export** menu to open **Music Disc Creator**. The mix is automatically added to **Music Disc Creator** as it is opened, and you can continue to add tracks from Sound Editor projects or other sources to your advanced project so you can save it or burn it to CD.

