

Smooth Edit v1 User Guide 07/03/2005

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Introduction

What is SmoothEdit™?

In simple terms, SmoothEdit[™] is a single track audio editing utility that offers a fast and effective solution to a number of common audio tasks. Designed primarily for use in 'on air' studios and newsrooms, SmoothEdit[™] is perfect for applications where simple 'top and tailing', audio level adjustment and rearranging of audio is needed. The idea is that by concentrating on the areas that you actually use, SmoothEdit[™] would be faster, more intuitive and simpler to use.

The Basics

So what exactly do we mean be an audio editor?

Conceptually, audio editors are very similar to word processors. The audio is represented visually on screen (in the form of a graph or 'wave form') and the editor is used to select areas to be moved, edited, replaced, formatted or deleted. In the case of audio editors, instead of making words bold, sections of the audio can be amplified, replaced, cut, pasted reversed, replaced with silence etc, in fact the main restriction is your imagination.

Just like a word document, you can also select sections of an audio file and move them around within the file, copy and paste sections in to the same file or in to a new file or repeat a section as many times as you like.

The main difference between a word processor and an audio editor is that in an audio editor, you are not working with text and words but with digitally recorded audio (also known a sampled audio). In order to allow us to see and work with sound, the audio is represented as a graph or 'wave form' which plots the value of the audio every fraction of the second (known as a sample).

There is a wealth of information on the subject available on the web but for the purposes of SmoothEdit[™], all you really need to know is that you can open (or record) an audio file, edit it and save it in a variety of qualities and file formats.

OK, let's get started.

Getting Started – Installing SmoothEdit™

Installing SmoothEdit[™] is a simple process.

1. Insert the SmoothEdit[™] disk in to your PC's CD-ROM or DVD drive.

- 2. The SmoothEdit[™] installation menu page should load automatically but if not click on My Computer and then your CD or DVD drive. Finally double click on the **default.htm** file in the root of the SmoothEdit[™] installation disk.
- 3. Select Install SmoothEdit[™] from the menu on screen
- 4. Follow the on screen instructions to complete the installation.

Once SmoothEdit[™] has finished installing, it is time to license the software to allow you to use it.

Getting Started – Licensing SmoothEdit™

SmoothEdit[™] uses an advanced licensing system to prevent software piracy and to safeguard the future of SmoothEdit[™] and other P Squared Ltd products.

The advanced licensing procedure generates a special code (called a PSQUISH) that is unique to your computer. The first time that you activate SmoothEdit[™] you will need to provide this code to P Squared Ltd in order to complete the licensing process. Subsequent codes can be obtained automatically (assuming you have web access) but you may have to contact P Squared Ltd periodically in the future.

Manually Obtaining A License Code

The standard licensing procedure for manually obtaining a license code is:

- 1. Select the License Code option from the Tools menu.
- 2. If this is the first time that you have licensed SmoothEdit[™] or you have not ticked the option to skip the introduction screen the last time yo entered a license code, the introduction screen will be displayed.

P Squared Licensing	Wizard - P Squared Licensing Wizard
	 P Squared Licensing Wizard This wizard helps you to License your P Squared Software. The process is very simple, and ensures that only licensed customers are able to run P Squared Products. When you first install your new product, you need to contact P Squared in person to confirm your identity and receive your first License Code. In most cases this will be the last time you have to contact P Squared Licensing in person as you will then be able to request new license codes automatically over the internet using this wizard. To ensure that all of your details are up to date, P Squared may occasionally ask you to re-confirm your identity in person to a Sales Account Manager before renewing a license code.
	Skip this screen in the future.
	< Back Next Cancel

- 3. Read the screen, the tick the "Skip this screen in the future" option unless you want to read this introduction each time. The click on Next.
- 4. You will then see a summary of the current license status of SmoothEdit[™]. In the example below, you can see that we currently have a valid license that is not due to expire for some months. If you are entering a license for the first time then this information will be blank. If you wish to proceed, click on the Next button.

Current License De Displays the inform	e tails mation about any e	existing License	e Code	
Your current License C	ode was entered:			
	29 Septen	nber 2004 09:!	59	
Your current License C	ode Expires:			
	28 M	larch 2005		
You only need to add a ne	w License Code if ,	vou are near j	vour expiry date. If	not, press
cancel to exit this wizard,				

- 5. If you do not need to license SmoothEdit[™], the license wizard will warning you before you proceed to the next screen, if you want to proceed anyway then click on OK.
- 6. The next phase is to enter your registration details. You will only have to do this the first time; the information will be loaded automatically on subsequent license procedures

The first thing that you have to enter is your P-SQUID or P Squared Unique ID which is your P Squared unique customer ID and will be provided by P Squared. Your P-SQUID will be at the top of all quotes, or purchase orders that you receive from P Squared and should be quoted whenever you contact P Squared. To enter or alter your P-SQUID, click on the Change button and type in the new P-SQUID

P-SQUII	censing Wizard - P-SQUID and Personal Details and Personal Details about your Company/Station as well as your Contact Details
	IID' is used to uniquely identify your Company/Station by P Squared Your P-SQUID: PSQUARED Change give your Contact Details to confirm your identity
	Contact Name: Liam Burke Company: P Squared Ltd Address: Victoria House, 82 Beverley , Hull, HU3 1YD email: liamb@psquared.net Telephone: 01482 383700
	Change
	of your P-5QUID as your 'Account Number' with P Squared - as well as Licensin verything from Quotes to Invoices, as well as Technical Support. < Back

Next add in your contact details by clicking on the Change button by the contacts summary window.

The following information will be used to	ОК
process your Support and Licensing requests. This information is held completely confidentially, and will not be disclosed to any third parties.	Cancel
Contact Name:	
Liam Burke	
Company Name (optional):	
P Squared Ltd	
Address (optional):	
Victoria House 82 Beverley Hull HU3 1YD	
Email Address:	
liamb@psquared.net	•
Telephone number (optional):	
01482 383700	
= REQUIRED FIELD	

You are required to enter your name and a valid email address; these details will be used when processing requests for 'online' license renewals in the future. You may also fill in the additional information if you wish. Once you have finished, click on OK to return to the main wizard and then click on Next to move on to the next step.

7. The next step in the license wizard allows you to enter the License Name and Features Code for the product. Both of these will be provided by P Squared when either with the purchased product or we can give you the details over the phone.

rd - License Details		_
me' and the 'Features' you ha	ve purchased.	
actly as supplied by P Square	d and then click '	'Set"
ter Details Here	🔁 🖻 🔊	iet
dard audio editing facilities ell as editing of other related	<u> 8</u> 5	"Set" et 👤 👱
ense Name' or 'Features Code nd 'License Code'. After you e tive "Set" buttons to store th	- ', P Squared will , ntered the 'Licer, e details,	
	me' and the 'Features' you ha kactly as supplied by P Square Iter Details Here exactly as supplied by P Squar adard audio editing facilities real as editing of other related rmation such as titles and timir ense Name' or 'Features Code nd 'License Code'. After you e	ime' and the 'Features' you have purchased. (actly as supplied by P Squared and then click ' Iter Details Here exactly as supplied by P Squared and then click exactly as supplied by P Squared and then click (a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c

Type in the License Name exactly as it is give to you by P Squared and then click on the Set button. Repeat the same procedure for the Features Code.

P Squared Licensing Wizard - License Details
License Details Confirm the 'License Name' and the 'Features' you have purchased.
Enter your 'License Name' exactly as supplied by P Squared and then click "Set" License Name: License Name Here
Enter your 'Features Code' exactly as supplied by P Squared and then click "Set" Features Code: Features Code Here Change 2 <i>This code allows: Standard audio editing facilities</i>
If you need to change your 'License Name' or 'Features Code', P Squared will need to issue you a new License Certificate and 'License Code', After you entered the 'License Name' and 'Features code, ' click the respective "Set" buttons to store the details.
< <u>B</u> ack Cancel

Once the License Name and Features Code have been set, you can alter them by clicking on the appropriate Change button. If you are happy, however, click on Next to proceed.

8. The next screen allows you the method that you want to use to obtain your SmoothEdit[™] license code.

License Method	/st=F
Select the licensing method to use	
C Manually enter a new License C	ode
Displays the current 'P-SQUISH' and	allows you to manually enter a new License Code.
Obtain a License Code Online	
Automatically get a new License Cod	e online from a P Squared Licensing Server.
C E-mail a License Code Request	
Send an e-mail to P Squared Licensin	g with all the nescessary information.
C Print a License Code Request	
Print out your details to fax or post t	o P Squared to recieve a new License Code.
	software then you should call P Squared to help telephone direct then you should use the e-mail options.

Each option is explained on screen as you can see from the image above.

In this case, let's assume that we want to manually enter the code and we intend to phone P Squared to give them details needed to activate the product. Select 'Manually Enter A New License Code' and then click on Next.

License Method			100-
Select the licensing method to	ouse		
• Manually enter a new Lice	ense Code		
Displays the current 'P-SQUIS		anually enter a ne	ew License Code
C Obtain a License Code On	line		
Automatically get a new Licer	nse Code online from a P	^o Squared Licensi	ng Server.
C E-mail a License Code Red	quest		
Send an e-mail to P Squared I	Licensing with all the ne	scessary informa	tion.
C Print a License Code Requ	Jest		
Print out your details to fax o	r post to P Squared to r	recieve a new Lic	ense Code.
If this is the first time you have licens you with this process. If you are not or print options to send all of the nes	able to telephone direct		
	< <u>B</u> ack	Next	Cancel

9. The next screen displays the P-SQUISH code which is a unique code that is used to generate your SmoothEdit[™] license. The P-SQUISH is unique to your contact, details, the PC you are working on and the time and date that you generate it.

	a License Code es the current 'P-SQUISH' and allows you to enter a new 'License Code'
Squared which is	ent anyone being able to take a copy of your software and use it illegally, P uses a custom designed licensing system. Below you will see your "P-SQUISH" a unique sequence of characters that can only come from this computer. P will provide a matching 'License Code' that will only work with this 'P-SQUISH' P Squared Unique Individual Serial Hash (P-SQUISH): XXXX XXX XXX XXX XX This P-SQUISH is only valid until: 09 October 2004
	New License Code:
	ISH above is time-dependent and it is important that you contact P Squared Fore it expires or they will be unable to issue you a compatible 'License Code'

The P-SQUISH is only valid for a few days so you should contact P Squared as soon as possible to let them have your P-SQUISH code. You can do this be either:

- Telephoning: +44 1482 383700
- Emailing: licenses@psquared.net
- Faxing To: +44 1482 383701

Once P Squared have a valid P-SQUISH code, they will then provide you with a License Code that you need to type in to the New License Code part of the screen before finally hitting Finish.

10. Clicking on Finish will end the licensing process. A short summary screen will be displayed before you can proceed on to using SmoothEdit[™].



Automatically Obtaining A License Code

In general, the first license code that you receive will have to be processed manually but once all your details are registered with P Square. Subsequent licenses can be obtained 'online' without the need to contact P Squared. This means that you can renew your license at your convenience providing that your PC has a web connection.

To obtain a license code 'online', follow these steps.

- 1. Select the License Code option from the Tools menu.
- 2. The introduction screen is usually skipped when renewing a license. In this case, the first screen you will see is the Current License Details screen which shows you when the current license was entered and when it is going to expire.

P Squared Licensing Wizar	d - Current License Details	
Current License Details Displays the information	about any existing License Code	
Your current License Code wa	as entered:	
	05 October 2004 12:54	
Your current License Code Ex	pires:	
	28 December 2004	_
You only need to add a new Lice. cancel to exit this wizard.	nse Code if you are near your expiry	date. If not, press
	< <u>B</u> ack	xt <u>C</u> ancel

3. Click on Next to move on to the P-SQUID and Personal Details screen. You only need to alter the information on this screen if it has changed. If not, click on Next to move on to the next screen.

100	and Personal Details about your Company/Station as well as your Contact Details	
	JID' is used to uniquely identify your Company/Station by P Squa Your P-SQUID: PSQUARED Change o give your Contact Details to confirm your identity	ired
	Contact Name: Liam Burke Company: P Squared Ltd Address: Victoria House, 82 Beverley , Hull, HU3 1YD email: liamb@psquared.net Telephone: 01482 383700	
		Change
	of your P-SQUID as your 'Account Number' with P Squared - as w verything from Quotes to Invoices, as well as Technical Support.	

4. Next you will see the License Details screen. Again, unless you need to need to alter any of this information, you can click on the Next button to move on to the next window.

5. The License Method window allows you to select the way in which you want to obtain your License Code. In this case, we want to renew the license on line so we need to make sure 'Obtain A License Code Online' is ticked and then click on Next.

Squared Licensing Wizard - License Method
License Method Select the licensing method to use
Manually enter a new License Code Displays the current 'P-SQUISH' and allows you to manually enter a new License Code.
Obtain a License Code Online Automatically get a new License Code online from a P Squared Licensing Server.
E-mail a License Code Request Send an e-mail to P Squared Licensing with all the nescessary information.
C Print a License Code Request Print out your details to fax or post to P Squared to recieve a new License Code.
If this is the first time you have licensed this software then you should call P Squared to help you with this process. If you are not able to telephone direct then you should use the e-mail or print options to send all of the nescessary options.
< <u>B</u> ack <u>Next</u> <u>C</u> ancel

6. Finally, you will see a brief summary screen before SmoothEdit[™] attempts to obtain a license 'online'. Click on Finish to begin the process.

Renew a License Code Online Automatically download a new 'L	icense Code' via the Internet	
The Licensing Wizard now has enough Server over the Internet and automa button to begin this process.		
<click 'finish'="" a="" co<="" license="" request="" td="" to=""><td>ode></td><td>2</td></click>	ode>	2
ore clicking "Finish" you must ensure (not be able to contact a Licensing Se		net or the wize

P Squared Licensing Wizard - Rene	w a License C	ode Online	
Renew a License Code Online Automatically download a new 'Licer	nse Code' via the	Internet	Ē
The Licensing Wizard now has enough in Server over the Internet and automatica button to begin this process.			
Downloading the list of License Servers, Connecting to Licensing Server	Done		~
			*
Before clicking "Finish" you must ensure tha will not be able to contact a Licensing Serve		ted to the Intern	et or the wizard
	< <u>B</u> ack	Einish	Gancel



At the end of the process, you will be told whether your license code was successfully renewed or whether you need to contact P Squared to continue the licensing process.

The SmoothEdit[™] Main Layout

Ok, now SmoothEdit[™] is fully licensed, we are ready to move on to the main SmoothEdit[™] layout. It is worth taking a few seconds to glance at the diagram below as it outlines the names of the main areas of the SmoothEdit[™] window and these will be referred to throughout this documentation.

N.B. If SmoothEdit[™] is not configured to automatically create new files of a specific format, you will be asked to specify the format to create a new file using, each time you start the system.

	🐻 P Squared Smooth Edit	
	File Edit Audio Tools Help	- 8 X
dB -0B -1 -1 -2 -4 Audio Format -7 Windows WAV (WAV) -7 -10 -16 Sample Rate 44,100Hz QK Cancel -7 -10		
Image: Choose Audio Format 1 Audio Format 2 Audio Format 7 Image: Windows WAV (WAV) 10 Sample Rate 44,100Hz Image: Windows WAV (WAV) 10 Image: Windows WAV (WAV) 16 Image: Windows WAV (WAV) 16 Image: Windows WAV (WAV) 10 Image: Windows WAV (WAV) 7 Image: Windows WAV (WAV) -7 Image: Windows WAV (WAV) -7 Image: Windows WAV (WAV) -7 I	のの & 胎・目 胞・目 二・	
Choose Audio Format Audio Format Audio Format Audio Format Windows WAV (WAV) Format PCM (No Compression) Format PCM (No Compression) Sample Rate 44,100Hz C Mono To C	dB	
Choose Audio Format Audio Format Audio Format Mindows WAV (WAV) Format PCM (No Compression) Format PCM (No Compression) G Sample Rate 44,100Hz G Cancel -7 QK Cancel -2		
C): Choose Audio Format 4 Audio Format 7 Windows WAV (WAV) - Format PCM (No Compression) Format PCM (No Compression) Sample Rate 44,100Hz QK Cancel 7 -10		
Audio Format Windows WAV (WAV) -7 Windows WAV (WAV) -10 Format PCM (No Compression) -90 Sample Rate 44,100Hz © Stereo QK Çancel -4 -7 -2	Choose Audio Format	
Windows WAV (WAV) 10 Format PCM (No Compression) 16 -90 16 90 Sample Rate 44,100Hz C Stereo QK Cancel 7 QK Cancel 4		
Windows WAV (WAV) 16 Format PCM (No Compression) 90 Sample Rate 44,100Hz 16 QK Cancel 77		
Format PCM (No Compression) 90 Sample Rate 44,100Hz C Stereo 16 Sample Rate 44,100Hz C Mono 10 QK Cancel 7 4	Windows WAV (WAV)	
Sample Rate 44,100Hz Stereo	Format (PCM (No Composition))	
<u></u> <u></u> <u></u> 10 <u></u> <u></u> -7 <u></u> -4 <u></u> -2	C Steren	
<u>QK</u> 4 4 2	Sample Rate 44,100Hz	
	QK Cancel4	
hms 1 2 3 4 5 6 7 8 9		
		00.00
∞ ⊨ €		00.00
© P Squared Ltd. 2004		

To do this, just select the quality you want when prompted, before the main window opens.

The main SmoothEdit[™] layout is shown below.

SmoothEdit Main Layout

Menu Bar Selected Area File Tool Bar Extro Marker Audio Edit Tool Bar VU Bars Main Edit Length Of Window Selection Intro Marker 00:00:02.39 Length: 00:00:05.28 Space >03:22:00.00 Overall Length Available Space Playback **Zoom Controls Play Timer** Controls

We will now look at each of these areas in turn.

SmoothEdit[™] Button Quick Reference Guide



The Audio Edit Tool Bar



The Playback Tool Bar



The Menu Bar

The Menu Bar give quick access to SmoothEdit[™]'s menus which in turn offer access to all of SmoothEdit[™]'s tools, facilities and settings. Most of the items on the Menu Bar can also be found as buttons on either the File Tool Bar or Audio Edit Tool Bar.

The File Menu

The File Menu gives access to SmoothEdit[™]'s file related functions. The options are listed below.



New (Ctrl + N)

N.B. The New option is also available on the File Tool Bar.

This option creates a new audio file to work with. SmoothEdit[™] can be set to automatically generate all new audio files at a specified sample rate and type (see Tools menu > Options > General tab for more details), or SmoothEdit[™] can prompt you to select the sample rate and type each time you create a new file. If a default has been se then the new file will automatically be created when you click on the new option on the File menu (or the new button on the File Tool Bar). If no default has been set then the following window will appear.

Audio Format	Windows WAV (WAV)	
	Windows WAV (WAV	ſ)
Format	PCM (No Compression)	
Sample Rate	44,100Hz	 Stereo Mono

This allows you to select the sample rate from the drop down list (44,100Khz is the default and is CD quality), as well as whether the created file should be Stereo or Mono. Once you are happy click on OK to create the new file.

N.B. You can only create new files in the Windows WAV files (no compression) format. Once you have recorded and edited you file, you can save it in whatever format you like.

Pressing Ctrl + N on the keyboard will also create a new audio file.

Open (Ctrl + O)

N.B. The Open option is also available on the File Tool Bar.

As you might expect, the Open option allows you to select an existing file to be edited using SmoothEdit[™]. Clicking on this option (on either the menu or the File Tool Bar) will access the Open browser window which allows you to browse the local and network folders to search for the file you want to open.

Open File				? 🛛
Look in: My Recent Documents Desktop My Documents My Computer	My Document My Computer My Network F raw graphics	Places ocumentation AV		
My Network Places	File <u>n</u> ame: Files of <u>type</u> :	myr00003.WAV Windows Linear WAV (*.WAV)	<u> </u>	Open Cancel

Please note that you can use the Files Of Type drop down list to change the file types that are displayed in the main browser section.

SmoothEdit[™] can be used to open and edit files of the following types.

- MPEG2 (MP2)
- MPEG Layer 3 (MP3)
- Org Vorbis (Ogg)
- Windows Media (WMA)
- Windows Wave Files (WAV)

N.B. For more details on the audio formats that SmoothEdit[™] supports, please refer to Audio Formats.

Once you have selected the file you want to work with, click on Open to open it in SmoothEdit[™].

Pressing Ctrl + O on the keyboard will also open the Open file window.

Save (Ctrl + S)

N.B. The Save option is also available on the File Tool Bar.

The Save option only becomes enabled when you have an audio file open and at least one change has been made to it. This includes new files and any existing file that has been altered or manipulated in any way.

In most cases, selecting Save from the file menu (or from the File Tool Bar) will save the file with the same file name, in the same location and format as the file was originally opened. This will overwrite the original file with the edited version. If you do not want to overwrite the original then Save As should be used (see below).

The exception to this is if you select Save on a file that you created (using New) and have not previously saved. In this case, SmoothEdit[™] will automatically switch to Save As mode to allow you to name the file, set its location and the file format that you wish to use.

Pressing Ctrl + S on the keyboard will also save the file.

Save As

N.B. The Save As option is also available on the File Tool Bar.

The Save As option on the File menu (and the File Tool Bar) allows you to save an open file as new name, in a new location or in an alternate format. The Save As option is enabled even if you have not edited the file as this allows you to create a duplicate of the opened file ensuring that changes you make will not effect the original.

When Save As is selected, the Save As browser window appears.

Save as				? 🛛
Save in: My Recent Documents Desktop My Documents	Desktop My Document My Computer My Network P raw graphics Robocopy smoothedit do myr00003 (2)	laces ocumentation		•
My Network Places	File <u>n</u> ame: Save as <u>t</u> ype:	My new file Windows Media (*.wma)		Save Cancel

This window allows you to select the location that you want to save the file as well as the file name that you want the file saved as.

The Save as type option allows you to select the file format that you want to use when saving the file, by using the drop down list. The options are:

- MPEG2 (MP2)
- MPEG Layer 3 (MP3)
- Org Vorbis (Ogg)
- Windows Media (WMA)
- Windows IMA ADPCM WAV (WAV)
- Windows Wave Files (WAV)

Once you have selected the file location, name and format, click on Save to save the file.

If SmoothEdit[™] is configured to save at a specific bit rate for the selected file format then the file will be saved at that bit rate. If no default bit rate has been set for the selected format then another window will open to allow you to select the bit rate that you want to use.

The screen shots below show options for each file format.

N.B. No options are available when saving as Windows IMA ADPC (WAV) or Windows PCM (WAV) format so the bit rate selection is not needed.

MP2 Format

sudio Format	MPEG Layer 2	? (MP2)		
	MPEG La	yer 2 (MP2)		
Sample Rate	44,100Hz	-	🕼 Stereo	
Bit Rate	128 kbps	•	C Mono	

MP3 Format

MPEG Layer 3 (MP3) Sample Rate 44,100Hz Stereo	
Sample Rate 44,100Hz 🚽 🕼 Stereo	
	0
Bit Rate 128 kbps 💌 🤆 Mono	<u>,</u>

Ogg Vorbis Format

Audio Format	Ogg Vorbis (OC	iG)	
	Ogg Vor	bis (0GG)	
Sample Rate	44,100Hz	<u>+</u>	🕫 Stereo
Bit Rate	128 kbps	•	C Mono

Windows Media Format

udio Format	Windows Media Audio (WMA)
<i>32</i>	Windows Media Audio (WMA)
Profile	
Cd-quality T	ransparency (128 Kbps Stereo) 📃 💌

For more details on the options for each of these formats, please refer to the Audio Formats section of the documentation.

Save Selection

This option works exactly like Save As (see above) except that instead of saving the entire file, it only saves the selected area to specified file name and format. This option is really useful for grabbing a section from a longer audio file and saving as a completely new audio file. This option is only enabled when a section of an already open file is highlighted.

Recent Files List

Although strictly speaking, these are not File menu options, the File menu does list the last few files that you have been working with in order to give you fast access to the files you have been working on most recently.

Exit

This option closes SmoothEdit[™]. If you have any unsaved work open when you select this option, you will be prompted to save the work before SmoothEdit[™] shuts down.

The Edit Menu

The Edit menu offer access to a range of options to allow you to edit and work with audio files.

File	Edit Audio Tools He	lp	
a) e	Undo	Cb1+Z	1
	Redo	Ctrl+Y	
	Select Entire Wave	Ctrl+A	
	Сору	Ctrl+C	
	Cut	Ctrl+X	
1.1	Paste	Ctrl+V	
	Mix Paste		
	Insert Another File		
i la	Mix Insert Another Fil	e	
	Delete Selection		a the second
	Mute Selection		

The options on the Edit menu are explained below.

Undo (Ctrl + Z)

This option only becomes available after you have started working with a file. Undo removes the last action restoring the file to the previous state. SmoothEdit[™] actually allows you to Undo multiple levels so even if you have performed a number of tasks, you can Undo them to get back to a previous state. Hitting Ctrl + Z on the keyboard will also Undo the last action.

Undo is also available on the Audio Edit Tool Bar.

Redo (Ctrl + Y)

The Redo option does the opposite to the Undo option and actually redoes anything that you have just undone. Let's say that you wanted to use the Undo to remove the last three edits but you accidentally clicked on the Undo button four times, clicking on the Redo button would restore the last change.

This option only becomes available when Undo has been used.

Redo is also available on the Audio Edit Tool Bar.

Select Entire Wave (Ctrl + A)

The Select Entire Wave option will select the entire wave form in the main edit window.



The selected area is marked in white and can then be used to affect changes to the entire file.

Pressing Ctrl + A on the keyboard will also select the entire wave form.

You can also double click anywhere in the Main Edit Window to select the entire wave form.

Copy (Ctrl + C)

Selecting Copy from the Edit menu (or hitting Ctrl + C on the keyboard) copies the selected section in the Main Edit Window, to the windows 'clip board'. This copies selection can then be pasted back in to another area in the same file, a complete new file or even in to another application (that also supports audio editing or playback).

Use of the copy and paste functions should be familiar to anybody who has used Windows applications in the past. The only difference here is that we are copying a section of audio instead of the usual text or graphics.

The Copy button is also available on the Audio Edit Bar.

The Copy option is only enabled after an area has been selected in the Main Edit Window.

Cut (Ctrl + X)

As with Copy, the Cut is used to add a selected are to the Windows 'clip board' to be pasted in to a different area of the same file, a entirely new file or another application. The difference is that when you use Cut the selected area is not only copied to the 'clip board' but also removed from the original file with the wave form either side of the Cut area, spliced together to make a new (shorter) wave form. The two screen shots below should help make it clearer.

First, a section is selected, then the Cut option is selected. The end result is this:



Becomes this:



N.B. The total length which is displayed in the bottom right, has dropped from 3:34 to 1:40 because we have Cut a big bit out of the middle.

Cut is only available once a section has been selected.

The Cut option is also available on Audio Edit Bar.

You can also use Ctrl + X on the keyboard to Cut a selected area.

Paste (Ctrl + V)

In both the Copy and Cut options examined above, we mentioned that the selected area is copied to the Windows 'clip board'. This is a special area of memory where Windows holds data for short term storage with a view of using it again either later in the same audio file or in another audio file. In general, only one thing can be stored in the 'clip board' and the data will be lost if the PC is rebooted but the 'clip board' does provide a quick, simple and convenient way of moving sections of audio around or between audio files.

In practice , the Paste in SmoothEdit[™] works exactly the same as the Paste in a word processor. Lets take the example above. In the Cut example, we started with a complete wave form; we then highlighted a big section in the middle which we Cut out. Now if we place the audio cursor at the end of the wave form and select Paste, the Cut section will be Pasted in to the wave form at the selected point.



You can also Paste in sections from previous file or even from other applications.

The Paste option is also available by pressing Ctrl + V on your keyboard or pressing the Paste button on the Audio Edit Bar.

Paste Mix

So far, most of the options on the Edit menu should be familiar to most Windows users as they are common to most Windows applications. The Paste Mix option, however, is fairly unique to audio editors. In a word processor, you never need to have multiple words on top of each other but in audio, that is exactly what you want some times.

The Paste Mix option allows you to do exactly that. Once you have a section of audio in the 'clip board' (see Cut or Copy), you can select the position on the wave form where you want the mix to begin, then select the Paste Mix option to mix the audio in the Windows 'clip board' with the audio that is already on the wave form.

In order for this to work, you must select the proportional volume of the two pieces of audio using the Mix Paste setting window (that will appear when you select Mix Paste).

The top setting determines the amplification level for the section of the original audio file that is highlighted. The second setting determines the level of amplification applied to the audio that you are about to mix paste in to the selected area. The reason that you need to do this is that if you mix pasted them both at 100%, if the two pasted audio sections happened to both peak at exactly the same time, you could end with a mix that is at 200% of the maximum volume which would lead to distortion.

🖾 Audio Editor - A	ud	io	Tr	an	sf	or	ma	itio	on						X
– Mix Paste Original Audio Level:	i.	i.	di.	•	ï	÷	-4	4	i.	÷.	4	ä.	i.	50	%
Unginal Audio Level:			ļ											100	10
Amplification Level:	-	_	÷	_	-	-	-	-	-	-	-	-	-	50	%
									οк					Cancel	

Different settings will suit different applications; your best bet it experiment with these settings until you get the mix level that you are looking for. Remember, you can use the Undo button to remove a Mix Paste easily.

You can also get to Mix Paste by using the drop down option on the Paste button on the Audio Edit Bar.



Insert Another File

This option on the Edit menu acts in exactly the same way as a Paste but instead of pasting a section on audio that is in the Windows 'clip broad', the Insert Another File pastes in the audio contained in a completely different file.

To use this option, click in the area of the Main Edit Window where you want the Insert to begin, and then select the option from the menu. Next select the file you want to be inserted using the file browser window that appears.

Select the file t	hat you want	to insert into this a	udio:		? 🔀
Look in:	Desktop		<u> </u>	- 🖹 💣 🛄-	
My Recent Documents Desktop My Documents My Computer	My Document My Computer My Network P Robocopy Smoothedit do My edit.WAV My round WAV Test (2).WAV Lest WAV Untitled.wav	flaces ocumentation			
My Network	File <u>n</u> ame:	test.WAV			<u>O</u> pen
Places	Files of type:	Audio Files		•	Cancel

Finally, click on Open and the file will be inserted in to the wave form at the selected point.

You can also get to the Insert Another File option from the drop down list on the Paste button on the Audio Edit Bar.



Mix Insert Another File

Just as Insert Another File did the same thing as Paste but using an external file instead of the 'clip board' so Mix Insert Another File does the same thing as Mix Paste but using an external audio file for the source for the audio to be mixed.

As before, this is done by selecting the point the Mix Insert is to start in an open wave form, then selecting the Mix Insert Another File option. Next select the file that you want to Mix Insert.

Select the file t	that you want	to insert into this a	udio:		? 🛛
Look in:	Desktop		<u> </u>	+ 🛍 💣 📰 •	
My Recent Documents Desktop My Documents My Computer	My Document My Computer My Network F Robocopy Smoothedit d My edit.WAV My edit.WAV Myr00003.W test (2).WAV	Places ocumentation AV			
My Network	File <u>n</u> ame:	test.WAV			Open
Places	Files of type:	Audio Files			Cancel

Finally, you have to set the respective levels to mix the two audio sources at using the popup box.

Mix Paste	-	3.1		0.08	-	380		121		320		a.	-		
Original Audio Level:	_	т. -	-		¹	1	-	4	ас. -	*		-1	- 1	75	%
	3	33	5	Ŧ	3	5	2	2	35	5	2	$\langle t \rangle$	<u>t</u> ;	-	
Amplification Level:		$\hat{\chi}$	ġ	j,	Ť.	8	0))).	Ξř.	ŝ	3	$\widetilde{\mathcal{X}}$	i.	75	%
Amplineation Level:	Ξ.	Ţ.	Ę.	Ļ	τ	ŧ,	91	а,	Э¢	ŧ.	a.	\mathbf{x}	1	75	10

As with Mix Paste, the levels will depend greatly on the source and destination audio as well as the kind of effect you are looking for. Experimentation is the key to getting the sound you are looking for.

The Mix Insert Another File option is also available from the drop down list on the Paste button on the Audio Edit Bar.



Delete Selection (Delete key)

This option probably needs little by way of explanation. Basically, if you highlight a section in the wave form the then select this option, the highlighted section will be removed from the wave form and the two adjoining sections will be spliced together. You can Undo deleted selections so don't worry if you delete the wrong bit.

You can also delete a selection by highlighting it and the pressing the Delete key on the keyboard. There is also a button on the Audio Edit Bar.

Mute Selection

As with Delete Selection, this one is fairly self explanatory. If you highlight a section of the wave form and then select this option, the highlighted section will be replaced with a silence of the same duration.




You can also access this option using the Replace Selection With Silence button on the Audio Edit Bar.

The Audio Menu

The Audio Menu provides access to a range of audio related tools in SmoothEditTM.



The options on the Audio menu are outlined below.

Amplify

Possible the most used function in audio editing, the Amplify option on the Audio Menu allows you to either increase or reduce the amplitude (or volume) of the section of the wave form selected in the Main Edit Window.

Let's say that we open a file and then decide that we want to reduce the volume of the entire wave form. First we use the Select Entire Wave option on the Edit menu, this will then select the entire wave form as shown below.

🐺 P Squared Smooth Edit - [C:\Documents and Settings\Administrator\Desktop\myr00004.WAV]		×
🔀 Ele Edit Audio Iools Help	- 6	×
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a at state allocated as a locale of a state of the second state of the second state of the second state of the	-90	L
	-10	L
	-4	L
	-1	L
	-1	L
	-10	L
	-90	L
	-10	L
	-4	L
Francisco	-1	L
hms 0:01.0 0:02.0 0:03.0 0:04.0 0:05 Sel: 00:00.0	5.43	
	00:05.4	3
	22:00.0	p
	00:05.4 22:00.0	3 0

Next go to the Audio menu and select Amplify from the list. This will then open the Audio Amplification window which allows you to set the amount you want to increase or reduce the selected area of the wave form by.

🗖 Audio Editor - A	ud	io 1	Tar	nsf	ori	ma	itio	on					
- Change the Volume: - Amplification Level:	a.	н.	ų,	-ii	i.	ä	8	i.	ř.	ä	ä.	î.	50 %
Amplinearion cever.	æ	5	μ,	2	5	2	્ય	2	5	2	2	Ţ,	190
							1	οк	ŝ				Cancel

In this case, we want to reduce the volume to half it's original so all that we need to do is set the Amplification level to 50% by using the slider or typing the level directly in to the percentage box. SmoothEdit[™] will alter the amplification of the selected area when you click on OK.



You can also access the Amplify tool using the Amplify button on the Audio Edit Bar.

Normalise

Normalise is closely related to Amplify in that Normalise alters the volume of the selected section of the wave form but in many ways, Normalise is more useful than Amplify because it allows you to apply a change in Amplification in a safe way that prevents the audio distorting due to over amplification in certain sections of the wave form.

The basic idea is simple. A normal wave form is a graph of peaks and troughs and like any graph, there is always a point in the wave form that is the loudest single point. When you perform a normalisation, SmoothEdit[™] scans through the wave form to find this point. It then works out how much it would need to amplify this point by in order to reach the percentage level that you have specified when setting up the Normalisation. It then applies the same level of amplification to the entire wave form. This is important because as the loudest point is used to calculate the amplification level and this level is applied to the rest of the wave form, you avoid distortion by over amplification. It is also important because if multiple audio files are normalised to the same level, they should be pretty even in terms of volume as the loudest point in each file will always be at the same level.

Let's look at an example. We start with the file that we reduced by 50% in the Amplification section.

🐺 P Squared Smooth Edit - [C:\Documents and Settings\Administrator\Desktop\myr00004.WAV]	
🔀 Ele Edit Audio Iools Help	- 🗗 🗙
	-4
and a strength of the strength	-10
	-90
	-10
	-1
	-1
	-4
	-10
	-90 -10
	-4
	-1
hms 0:01.0 0:02.0 0:03.0 0:04.0 0:05.0	
	0.05 42
00:00:01.52	2:00.00

First use the Select Entire Wave option on the Edit Menu (or hit Ctrl + A) to select the entire wave form.



Next go to the Audio menu and select Normalise. This will open the Normalise options window.



This allows you to set the level that you want to normalise to, i.e. the level on the wave form scale that you want the loudest point in the audio file to be amplified to. You can see that to the right of the Main Edit Window is a scale (one for the top wave form, one for the bottom wave form) which goes from - 90dB to 0dB. The exact meaning of this scale in not covered in this documentation but all you really need to know is that -90dB is silent and 0dB is the loudest value you can have on a wave form. The Normalisation percentage refers to this scale so if you were to set the Normalisation to 100% then the loudest point in the wave form would be amplified such that it was at 0dB and the then the same amplification value would be applied to the rest of the wave form. If you set the Normalisation value to 50% then the loudest point in the wave form would be amplified to the rest of the scale – don't ask!) and the same value would be applied to the rest of the rest of the wave form.

For this example, let's set the normalisation value to 90% and see what happens.



Here we can see that the entire wave form has been amplified such the loudest section peaks at 90% of the maximum value of the wave form.

There is also a tick option to Remove DC-Bias when Normalising. DC-Bias occurs sometimes when you are recording from external sources that are not calibrated in the same way as a PC. Basically, the central point of the wave form (horizontally) will not be on the -90dB line on the scale. The Remove DC-Bias option simply moves the entire wave form to the correct values as part of the Normalisation process.

You can also access the Normalisation tool by clicking on the Normalise Selection button on the Audio Edit Bar.

Fade In

The Fade In option on the Audio menu will alter the selected section of the wave form so that the beginning part of the selection will start at zero volume and the volume will steadily rise across the selected area to reach the starting volume at the end of the selected area.

This is better explained with an example. Let's look at our wave form again.



In this case, we have used the mouse to select the first half of the wave form (used the left mouse button to select the area).

If we now click on the Fade In option on the Audio Menu, the wave form will be altered to fade in the volume over the selected area.



This function is great for smoothing abrupt starts to audio files or for mixing two audio segments together.

You can access the Fade In function by using the Fade In button on the Audio Edit bar.

Fade Out

As you may have already guessed does the opposite to Fade In. Basically, if you can select a section of a wave form and then use the Fade Out function, the volume of the wave form will be gradually reduced to zero over the selected area.



Becomes:

🐻 P Squared Smooth Edit - [C:\Documents and Settings\Administrator\Desktop\myr00004.WAV]	
🚾 Elle Edit Audio Tools Help	- 8 ×
ゆ つ 浅 略 • 國 器 倫 • 🛛 🌠 🇮 • 🔛 🔜 🔛 📑 🕄 🖉 🔛	
	48 4 -1 -10 -90 -10 -4 -1
	-1 -4 -90 -10 -4
hms 0:01.0 0:02.0 0:03.0 0:04.0 0:05 Sei: 00:00:00 >	0:05.43

This function is very useful for ending audio files as it allows you to put a soft sounding ending and avoids abrupt 'cut off' sounds.

As ever, you can also access the Fade Out function from the Fade Out button on the Audio Edit bar.

Time Stretch

The Time Stretch tool in SmoothEdit[™] can be accessed via the Audio Menu and allows you to alter the length of a selected part of the wave form. This may be important if you are producing audio that needs to be of an exact length (for say split advert breaks) but you are having difficulties getting it spot on.

To use the Time Stretch tool, first select the section of the wave form that you want to stretch / shrink. If you need the entire file to be of a specific length then select the entire wave form.



(N.B. That the overall length is for the audio file is currently 5.34 seconds).

Next click on the Time Stretch option on the Audio menu to open the Time Stretch options.

nine st	tretch Options		Presets:	
Newl	nt length of the audio: ength of the audio: rve the Pitch of the audio	5.434 7.0	10 Seconds 20 Seconds 30 Seconds 40 Seconds 60 Seconds	
Note:	Changing the length of a by more than 5% while p pitch can produce odd r	reserving the		0

This window shows the current length of the selected area and allows you to type in the length that you want it to be after the stretch process.

You can also decide whether you wish to preserve the pitch of the audio by ticking the Preserve The Pitch Of The Audio option. Time stretching can be done in two ways. The simplest is to slow down or speed up the playback of the selected section to get to the desired length. The down side to this is that the pitch of the audio changes and if the stretch is too short or long this may be very noticeable. The alternative is a far more complicated process or repeating / dropping tiny sections of the audio and inserting / removing tiny silences to get to the required length. This method does not effect the pitch of the recorded audio but tends to be very noticeable if the stretch is more than say 5% either way of the original length of the audio.

Which ever method you chose, Time Stretching should only be used to make small adjustments to the length of the audio or the results will be apparent to the listener.

In this example, we will stretch the audio to a total of 7.0 seconds and preserve the pitch by ticking the preserve box.



As you can see, the new overall length is 6.0 seconds but because we stretched it by around $\frac{1}{2}$ a second on a 5 second audio file, that is a change of about 20% so the effect on the audio is very pronounced. For best results you should try to restrict the time stretch to about 5% of the overall length of the original audio.

You may have also noticed that there were a number of preset values to the right of the Time Stretch Options window. You can load one of these preset values by clicking on them so if you need a time stretch to 10 seconds, just click on the 10 seconds preset. You can also save your own presets by putting in the values you want to use and then clicking on the add button.

Time St	retch Options		Presets:	
Newle	it length of the audio: ength of the audio: we the Pitch of the audi	5.434 6.0 d	10 Seconds 20 Seconds 30 Seconds 40 Seconds 60 Seconds	•
Note:	Changing the length o by more than 5% while pitch can produce odd	preserving the	0	0
			ОК	Cancel

You will then be asked to add a name for your preset.

😂 Add Time Stre	tch Preset 🛛 🔣
What do you want to	o call this Preset?
6 Sec Preserve	Pitch
6 Sec Preserve	Pitch

Your time stretch will then be added to the list of presets.

🖾 Audio Editor - Audio Ti	ransformation		×
Time Stretch Options			
Current length of the audio: New length of the audio: Preserve the Pitch of the audi	5.434 6.0	Presets: 10 Seconds 20 Seconds 30 Seconds 40 Seconds 6 Sec Preserve Pitch 60 Seconds	_
Note: Changing the length o by more than 5% while pitch can produce odd	preserving the		8
		OK(Cancel

You can also delete presets by highlighting them and the clicking on the remove preset button.

1 me St	retch Options		Presets:	
	nt length of the audio: ength of the audio:	5.434 6.0	10 Seconds 20 Seconds 30 Seconds	
Preser Note:	ve the Pitch of the audio Changing the length of by more than 5% while	a piece of audio	40 Seconds 6 Sec Preserve Pitch 60 Seconds	Ļ
	pitch can produce odd	results!		8

You can also access the Time Stretching tools from the Time Stretch button on the Audio Edit Bar.

Reverse

The Reverse option on the Audio menu will reverse the selected section of the wave form.

You can also reverse a selected area using the Reverse Selection button on the Audio Edit Bar.

Insert Silence

The Insert Silence option on the Audio menu is used to insert a specified period of silence at the point in the wave form where the cursor currently is.



In this example, the cursor (dotted yellow line) has been positions at the point in the audio file where we want to insert some silence.

😂 Insert Silence	
What duration of silen you want to insert?	ce (in seconds) do
2	

Selecting the Insert Silence option allows you to specify the length of the silence you want to insert. In this case we have elected to insert 2 seconds of silence.



As you can see, the silence has been inserted in to the wave form.

CAUTION: If you select an area on the wave form (not just put the cursor where you want it to start) then Insert Silence then the selected area will be replaced with silence. If the selected area is shorter in duration than the selected area then the rest of the inserted silent period will be inserted after the selected area in the normal way.

The Inset Silence option can also be found on the Audio Edit Tool Bar.

Delete Silences

The final option on the Audio menu is Delete Silences and this is tool that may not be familiar from other audio editors as not many of them have this type of option. The Delete Silences tools will search through the selected section of the wave form looking for sections that it determines are classed as silent, and then removes them. This can be used to automatically 'top and tail' an audio file removing silences from the beginning and end of the audio but it will also strip out silent periods from the middle of the file. Let's see what happens if we apply it to the file we were just inserting silences to.

First double click (or press Ctrl + A or select Select Entire Wave from the Edit menu) to select the entire wave form.



Next select the Delete Silences option from the Audio menu.

🖾 Audio Editor - Audio Transformation 🛛 💦 🔯	
Delete Silence: Silence is defined as where the Audio Level is below (negative): 60 db Duration that the Audio Level must be below this level before it is deleted: 100 milliseconds	
Duration that the Audio Level must be above this level to be kept: 25 milliseconds	

This opens the Delete Silences options window. In here you set the level for three things before the process is started. The first option is the audio level below which audio is classed as silent. This needs to be set low enough that no audio is lost but above the level of general background noise or 'hum. The default is -60dB which is probably a good starting point for most people.

The next option is the duration (in milliseconds) that the audio can be silent for before SmoothEdit[™] starts to tag the area as silent. This is set to 100 milliseconds by default as you do not want SmoothEdit[™] trimming silent periods when they are supposed to be in the audio (for dramatic pause?). The final option is the duration that audio has to rise above the silence threshold (set in the first option) before SmoothEdit[™] determines that the silences has ended. This needs to be short as you don't want SmoothEdit[™] to be slow in react to a silent period finishing and audio starting. The default for this is 25 milliseconds.

Ok, so if we run the Remove Silences from the file we were working on, the silence we just installed is removed automatically.



Because we set the Delete Silence parameters fairly loosely, the silences at the beginning middle and end remain in place but if we were to tighten up the parameters, we can see that the effect is more pronounced.



Delete Silences is also available on the Audio Edit Tool Bar.

The Tools Menu

The Tools menu offers access SmoothEdit™'s tools and license details.



The Windows Mixer

This Windows Mixer option on the Tools menu opens the standard windows mixer interface which allows you to adjust the master playback volumes for your sound card as will as select the input to record from them and (if the card supports it) the input volume as well.



For more details on how to use the Windows Mix, please refer to the Windows help system and your sound card manufacturers documentation.

Options

The Options section of the Tools menu provides access to the settings and options that determine how SmoothEdit[™] works and what information / facilities are available to the users. The SmoothEdit[™] Options window is divided in to three parts each of which are covered below.

Options: General Tab

General Options:	File Formats	Advanced Settings
Preferences Open the permissions	ne file for audio editing immediately sers to enter Title, Artist and timing info	ormation
Audio Settings: — Record using:	SigmaTel Audio	
Playback using:	SigmaTel Audio	
r idybdolk dollig.		
Only allow edit	ing of Audio files in this format: 44,100Hz; Stereo; PCM	Change

The General tab contains general settings that determine how SmoothEdit[™] works and interacts with both the users and your PC. The General tabe itself is split in to three areas that are covered below.

Options

The Options section has a number of preferences and permissions that allow you to set how SmoothEdit[™] works.

Open the file for audio editing immediately: This option is ticked by default. If you do not tick this option then the wave form will not be displayed automatically when an audio file is opened. This option is designed for interaction with other P Squared products such as Scoop and AutoTrack Pro and can be ignored by most stand alone SmoothEdit[™] users. Allow Users To Enter Title, Artist & Timing Information: SmoothEdit[™] supports an international standard called Cart Chuck which uses spare space at the begin of WAV based audio files to store text information about the audio such as title, artist and timing information. Other Cart Chunk compliant programs (such as Myriad by P Squared) can then read this information when importing the audio file.

N.B. This option is disabled in most versions of SmoothEdit[™]. Please contact sales@psquared.net if you feel that this option would be useful to you.

Audio Settings

The Audio Settings section on the General tab allows you to specify the audio device that you wish to use for record and playback in SmoothEdit[™]. You can use the drop down list next to each option to select the appropriate device.

Only Allow Editing Of Audio Files Of This Format

The final option on the General tab allows you to restrict the editing of linear wav files to only files of a specific format. When this option is disabled, SmoothEdit[™] will happily edit linear wav files of any type and sample rate but if you are using SmoothEdit[™] to edit audio for a end use that requires a specific format (say a playout system that can not cope with mixed sample rates – Myriad can before you ask!) then this option prevent you from accidentally editing a file of the incorrect format. Once you have enabled this option, you can select the sample rate and type that you want to restrict SmoothEdit[™] to using the Windows PCM format selection box.

Audio Format	Windows WAV (WAV)	
	Windows WAV (WAV	'n
Format	PCM (No Compression)	Ψ.
Sample Rate	44,100Hz 💌	 Stereo Mono

This can be accessed by clicking on the Change button.

Options: File Formats Tab

The File Formats tab allows you to specify the file types that SmoothEdit[™] can open and also the file types and formats that is can save files as.

General File Formats	Advanced Settings
llow users to Load these formats:	<i>.</i>
Allow users to Load:	
MPEG 2 (*.mp2)	
MPEG 3 (*.mp3)	
🖸 Ogg Vorbis (*.ogg)	
Raw PCM (*.pcm)	
💽 Windows Media (*.wma)	
🗹 Windows WAV (*.WAV)	
 Allow users to Save: MPEG 2 (*.mp2) MPEG 3 (*.mp3) Ogg Vorbis (*.ogg) Raw PCM (*.pcm) Windows Media (*.wma) Windows IMA ADPCM WAV (*.WAV) 	
Vindows WAV (*,WAV)	Formal Options

The File Formats tab is divided in to two sections. The upper section contains a list of the audio file types that SmoothEdit[™] can open. The ticked options are the file types that the SmoothEdit[™] user will be allows to open and edit. If you wish to prevent your users from opening files of a specific type then untick that file type in the top list.

The lower section is a list of the file type / formats that SmoothEdit[™] can save files as. Again, if you do not want to be able to save files as a specific type / format then un-tick that option.

In addition, you can also use this section to not only specify the types of files that users can save as but you can also control the formats that that can save files in.

Let's say for example that you are happy for you and other SmoothEdit[™] users to be able to save files in MP3 format but you only want to use 128kbit / second bit rate files to keep the quality as high as possible. To do this, highlight the MP3 file type and the Format Options button becomes enabled.

General	File Formats	Advanced Setting:
low users to Load these	formats:	\$.
Allow users to Load:		
- 🖸 MPEG 2 (*.mp2	1	
MPEG 3 (*.mp3)	
🛛 🖸 Ogg Vorbis (*.o	77778 N	
🔲 Raw PCM (*.pc		
Windows Media		
G Windows WAV	(*.WAV)	
low Users to Save in the	ese formats:	
low Users to Save in the		
Allow users to Save:	1	
Allow users to Save: MPEG 2 (*.mp2 MPEG 3 (*.mp3	1) 1)	
Allow users to Save: MPEG 2 (*.mp2 MPEG 3 (*.mp3 Ogg Vorbis (*.o))]gg)	
Allow users to Save: MPEG 2 (*.mp2 MPEG 3 (*.mp3 Ogg Vorbis (*.o Raw PCM (*.pc	:)]] gg) m)	
Allow users to Save: MPEG 2 (*.mp2 MPEG 3 (*.mp3 Ogg Vorbis (*.o Raw PCM (*.pc Windows Media	')] gg) m) a (*.wma)	
Allow users to Save: MPEG 2 (*.mp2 MPEG 3 (*.mp3 Ogg Vorbis (*.o Raw PCM (*.po Windows Media Windows IMA A) gg) m) a (*.wma) ADPCM WAV (*.WAV)	Format Options
Allow users to Save: MPEG 2 (*.mp2 MPEG 3 (*.mp3 Ogg Vorbis (*.o Raw PCM (*.pc Windows Media) gg) m) a (*.wma) ADPCM WAV (*.WAV)	Format Options

This then allows you to determine whether the user can save MP3 files at any bit rate or only at the bit rate (quality) that you set.

Change	Format
	Cancel
	Change

To change the bit rate, click on the Change Format button and select the new format from the list.

udio Format	MPEG Layer 3 (MP3)		
	MPEG Lay	er 3 (MP3)	i.	
Sample Rate	44,100Hz	Ŧ	C	Stereo
Bit Rate	128 kbps	•	0	Mono

You can set the specific bit rate that you want to save files at for MP2, MP3, Ogg Vorbis and WMA. No options are available for RAW, IMA ADPCM or PCM WAV file types.

For more details on the file types and formats that SmoothEdit[™] supports, please refer to the Audio Formats section of the documentation.

N.B. The Only Allow Editing Of Audio Files Of This Format option on the General tab must also be enabled for this option to be available.

Options: Advanced Tab

The Advanced tab holds all the slightly more technical or advanced SmoothEdit[™] settings that should not really be touched unless you a confident in what you are doing.

👄 SmoothEdi	it Options 🛛 🛛 🔀
Gen	eral File Formats Advanced Settings
Temporary D	Directory:
Directory:	C:\DOCUME~1\ADMINI~1\LOCALS~1\Temp\ Browse
	OK Cancel

Temporary Directory

The Temporary Directory setting allows you to set the drive and location of the folder that SmoothEdit[™] uses to store audio and data files while you are editing audio. The temporary directory should be on a local disk space that has enough free space to accommodate at least twice the size of the largest audio file that you are likely to edit in SmoothEdit[™]. This is to allow for a working copy to be copied to the temporary directory while SmoothEdit[™] performs certain tasks.

License Code

The License Code option on the Tools menu gives you access to the Licensing wizard originally used to license SmoothEdit[™]. You will need to renew your license code at least once a year and whilst that can be done 'online' in most cases, you will still need to access the licensing wizard through the License Code option on the Tools menu.

P Squared Licensing Wizard - Current License Details	
Current License Details Displays the information about any existing License Code	
Your current License Code was entered:	
29 September 2004 09:59	
Your current License Code Expires:	
28 March 2005	
You only need to add a new License Code if you are near your expiry date. If not, pres cancel to exit this wizard.	8
< <u>B</u> ack <u>Next</u> <u>C</u> ar	ncel

For full details on using the licensing wizard, please refer to Getting Started: Licensing SmoothEdit[™].

The Help Menu

The Help menu provides access to SmoothEdit[™]'s online help system and the About box that give you information on what version of SmoothEdit[™] you are using.



Contents F1

This provides access to the SmoothEdit[™] help system.

P Squared On The Web

This menu option expands to provide access to a number of P Squared web related resources including

- The P Squared Web Site
- Licensing Information
- Online Technical Support
- And the P Squared Forums

Obviously, you will need web access to use these resources.

About

Open the SmoothEdit[™] About window which contains information on the version of SmoothEdit[™] you are using as well as information on how to contact P Squared Ltd.

🥺 About Smo	oth Edit v1 🛛 🛛 🔀
	Version 1.0.0 © P Squared Ltd. 2004
	This License Holder's P-SQUID is: PSQUARED and the software is registered in the name: Illyria Support Website: <u>www.psquared.net/support</u> Support e-mail: <u>support@psquared.net</u>
international cop of this program o and any such ac	omputer program is protected under yright law. Unauthorised reproduction r any part of it is expressly forbidden tions may result in civil and criminal re maximum extent of the law.

The File Tool Bar

The File Tool Bar offers quick buttons to many of the options on the File menu in SmoothEdit[™]. The buttons on the File Tool Bar are explained in this section although their functions are the same as the equivalent on the File menu so if you have already read the File menu section then you will not need to dwell on this section.



New 🖻

N.B. The New option is also available on the File menu and by pressing Ctrl + N.

This option creates a new audio file to work with. SmoothEdit[™] can be set to automatically generate all new audio files at a specified sample rate and type (see Tools menu > Options > General tab for more details), or SmoothEdit[™] can prompt you to select the sample rate and type each time you create a new file. If a default has been se then the new file will automatically be created when you click on the New option on the File Tool Bar (or the New option on the File menu). If no default has been set then the following window will appear.

Audio Format	Windows WAV (WAV)	
	Windows WAV (WAV)
Format	PCM (No Compression)	Ŧ
Sample Rate	44,100Hz	 Stereo Mono

This allows you to select the sample rate from the drop down list (44,100Khz is the default and is CD quality), as well as whether the created file should be Stereo or Mono. Once you are happy click on OK to create the new file.

N.B. You can only create new files in the Windows WAV files (no compression) format. Once you have recorded and edited you file, you can save it in whatever format you like.



N.B. The Open option is also available on the File menu and pressing Ctrl + O on the keyboard.

As you might expect, the Open option allows you to select an existing file to be edited using SmoothEdit[™]. Clicking on this option (on either the menu or the File Tool Bar) will access the Open browser window which allows you to browse the local and network folders to search for the file you want to open.

Open File				? 🔀
Look in: My Recent Documents Desktop My Documents My Computer	My Documen My Compute My Network raw graphics	r Places documentation /AV		
My Network Places	File <u>n</u> ame: Files of <u>type</u> :	myr00003.WAV Windows Linear WAV (*.WAV)	•	<u>O</u> pen Cancel

Please note that you can use the Files Of Type drop down list to change the file types that are displayed in the main browser section.

SmoothEdit[™] can be used to open and edit files of the following types.

- MPEG2 (MP2)
- MPEG Layer 3 (MP3)
- Org Vorbis (Ogg)
- Windows Media (WMA)
- Windows Wave Files (WAV)

N.B. For more details on the audio formats that SmoothEdit[™] supports, please refer to Audio Formats.

Once you have selected the file you want to work with, click on Open to open it in SmoothEdit[™].

Save

N.B. The Save option is also available on the File menu and by pressing Ctrl + S.

The Save option only becomes enabled when you have an audio file open and at least one change has been made to it. This includes new files and any existing file that has been altered or manipulated in any way.

In most cases, clicking Save on the File Tool Bar (or on the File menu) will save the file with the same file name, in the same location and format as the file was originally opened. This will overwrite the original file with the edited version. If you do not want to overwrite the original then Save As should be used (see below).

The exception to this is if you select Save on a file that you created (using New) and have not previously saved. In this case, SmoothEdit[™] will automatically switch to Save As mode to allow you to name the file, set its location and the file format that you wish to use.

Save As 묘

N.B. The Save As option is also available on the File menu.

The Save As button on the File Tool Bar (and the File menu) allows you to save an open file as new name, in a new location or in an alternate format. The Save As option is enabled even if you have not edited the file as this allows you to create a duplicate of the opened file ensuring that changes you make will not effect the original.

When Save As is selected, the Save As browser window appears.

Save as				? 🛛
Save in: My Recent Documents Desktop My Documents	Desktop My Document My Computer My Network P raw graphics Robocopy smoothedit do myr00003 (2)	laces ocumentation		•
My Network Places	File <u>n</u> ame: Save as <u>t</u> ype:	My new file Windows Media (*.wma)		Save Cancel

This window allows you to select the location that you want to save the file as well as the file name that you want the file saved as.

The Save as type option allows you to select the file format that you want to use when saving the file, by using the drop down list. The options are:

- MPEG2 (MP2)
- MPEG Layer 3 (MP3)
- Org Vorbis (Ogg)
- Windows Media (WMA)
- Windows IMA ADPCM WAV (WAV)
- Windows Wave Files (WAV)

Once you have selected the file location, name and format, click on Save to save the file.

If SmoothEdit[™] is configured to save at a specific bit rate for the selected file format then the file will be saved at that bit rate. If no default bit rate has been set for the selected format then another window will open to allow you to select the bit rate that you want to use.

The screen shots below show options for each file format.

N.B. No options are available when saving as Windows IMA ADPC (WAV) or Windows PCM (WAV) format so the bit rate selection is not needed.

MP2 Format

sudio Format	MPEG Layer 2	? (MP2)		
	MPEG La	yer 2 (MP2)		
Sample Rate	44,100Hz	-	🕼 Stereo	
Bit Rate	128 kbps	•	C Mono	

MP3 Format

MPEG Layer 3 (MP3) Sample Rate 44,100Hz Stereo	
Sample Rate 44,100Hz 💽 🧭 Stereo	
	0
Bit Rate 128 kbps 💽 🗲 Mono	6

Ogg Vorbis Format

udio Format	Ogg Vorbis (OG	iG)	
	Ogg Vorl	bis (OGG)	
Sample Rate	44,100Hz	Ŧ	G Stereo
Bit Rate	128 kbps	•	C Mana

Windows Media Format

udio Format	Windows Media Audio (WMA)
<i>ii</i>	Windows Media Audio (WMA)
Profile	
Cd-quality T	Fransparency (128 Kbps Stereo) 📃 💌

For more details on the options for each of these formats, please refer to the Audio Formats section of the documentation.

Open Alternate Editor

This button will open the file that you are currently working on in SmoothEdit[™], in an alternate audio editing package.

N.B. This option is only available to Scoop users.

Additional Inf o 🞬

This button toggles the Additional Information panel from hidden to in view. The Additional Information panel allows you to add additional information such as artist, title and timing information to the actual audio file using an international standard called Cart Chunk. Certain other audio packages can understand and import this information.

N.B. This option is not available in the standard SmoothEdit[™] edition. For more details on this feature, please contact sales@psquared.net

The Audio Edit Tool Bar

The Audio Edit Tool Bar contains buttons that access a number of audio editing related features. Many of these have already been covered in the Edit and Audio menu sections of the documentation so if you have already read those sections, you can probably skip over this part.



In addition, the Cut, Paste and Select Channels To Edit buttons have drop down lists to allow you to select alternate options. These are also shown below.

Copy Options



Paste Options



Select Channels To edit Options



The functions of the buttons on the Audio Edit Tool Bar are explained in details below.

Undo 🗠

This option only becomes available after you have started working with a file. Undo removes the last action restoring the file to the previous state. SmoothEdit[™] actually allows you to Undo multiple levels so even if you have performed a number of tasks, you can Undo them to get back to a previous state.

Hitting Ctrl + Z on the keyboard will also Undo the last action, you can also access Undo via the Edit menu.

Redo 🗠

The Redo option does the opposite to the Undo option and actually redoes anything that you have just undone. Let's say that you wanted to use the Undo to remove the last three edits but you accidentally clicked on the Undo button four times, clicking on the Redo button would restore the last change.

This option only becomes available when Undo has been used.

Redo is also available on the Edit menu and pres pressing Ctrl + Y.

Cut 👗

As with Copy, the Cut is used to add a selected are to the Windows 'clip board' to be pasted in to a different area of the same file, an entirely new file or another application. The difference is that when you use Cut the selected area is not only copied to the 'clip board' but also removed from the original file with the wave form either side of the Cut area, spliced together to make a new (shorter) wave form. The two screen shots below should help make it clearer. First, a section is selected, then the Cut option is selected. The end result is this:



Becomes this:



N.B. The total length which is displayed in the bottom right, has dropped from 3:34 to 1:40 because we have Cut a big bit out of the middle.

Cut is only available once a section has been selected.

The Cut option is also available on the Edit menu.

You can also use Ctrl + X on the keyboard to Cut a selected area.

Сору 🕒

Clicking on the Copy button (or hitting Ctrl + C on the keyboard) copies the selected section in the Main Edit Window, to the windows 'clip board'. This copies selection can then be pasted back in to another area in the same file, a complete new file or even in to another application (that also supports audio editing or playback).

Use of the copy and paste functions should be familiar to anybody who has used Windows applications in the past. The only difference here is that we are copying a section of audio instead of the usual text or graphics.

The Copy button is also available on the Edit menu.

The Copy option is only enabled after an area has been selected in the Main Edit Window.

Copy Button Drop Down: Copy To SmoothEdit™ Clip Area



Copy to SmoothEdit[™] Clip Area: This option copies the selected area to the 'clip board'

Export Selection To Wave File

This Export Selection To Wave File button will close the exiting file and open a new file using the selected area. This is really useful if you wish to grab a section from an audio file, to use as a basis for your next edit.

Paste 🚨

In both the Copy and Cut options examined above, we mentioned that the selected area is copied to the Windows 'clip board'. This is a special area of memory where Windows holds data for short term storage with a view of using it again either later in the same audio file or in another audio file. In general, only one thing can be stored in the 'clip board' and the data will be lost if the PC is rebooted but the 'clip board' does provide a quick, simple and convenient way of moving sections of audio around or between audio files.

In practice, the Paste in SmoothEdit[™] works exactly the same as the Paste in a word processor. Lets take the example above. In the Cut example, we started with a complete wave form; we then highlighted a big section in the middle which we Cut out.

Now if we place the audio cursor at the end of the wave form and select Paste, the Cut section will be Pasted in to the wave form at the selected point.


You can also Paste in sections from previous file or even from other applications.

The Paste option is also available by pressing Ctrl + V on your keyboard or on the Edit menu.

Paste Drop Down: Paste From The SmoothEdit™ Clip Area



This does the same thing as clicking on the Paste button on the Audio Edit Tool Bar. The audio stored on the 'clip board' is Pasted in to the open audio wave form at the point that the cursor is currently positioned. See Paste for a more detailed description.

Paste Drop Down: Mix Paste From Clip Area

So far we have looked at Copy, Cut and Paste which should be familiar to most Windows users as they are common to most Windows applications. The Paste Mix option, however, is fairly unique to audio editors. In a word processor, you never need to have multiple words on top of each other but in audio, that is exactly what you want some times.

The Paste Mix option allows you to do exactly that. Once you have a section of audio in the 'clip board' (see Cut or Copy), you can select the position on the wave form where you want the mix to begin, then select the Paste Mix option to mix the audio in the Windows 'clip board' with the audio that is already on the wave form.

In order for this to work, you must select the proportional volume of the two pieces of audio using the Mix Paste setting window (that will appear when you select Mix Paste).

The top setting determines the amplification level for the section of the original audio file that is highlighted. The second setting determines the level of amplification applied to the audio that you are about to mix paste in to the selected area. The reason that you need to do this is that if you mix pasted them both at 100%, if the two pasted audio sections happened to both peak at exactly the same time, you could end with a mix that is at 200% of the maximum volume which would lead to distortion.

🗖 Audio Editor - A	ud	io	Tr	ar	ısf	or	ma	atio	on					
Mix Paste Original Audio Level:	a.	1	-1	•	ii.	ï	-	5	i.		4	ï.	i.	50 %
Uriginal Audio Level:			-					2						50 %
Amplification Level:	-	_	ļ	_	-	-	-	-	-	-	-	-	-	50 %
		•			10	[οк]	1.	Cancel

Different settings will suit different applications; your best bet it experiment with these settings until you get the mix level that you are looking for. Remember, you can use the Undo button to remove a Mix Paste easily.

Mix Paste is also available on the Edit menu.

Paste Drop Down: Insert From File

This option on the Audio Edit tool bar acts in exactly the same way as a Paste but instead of pasting a section on audio that is in the Windows 'clip broad', the Insert Another File button pastes in the audio contained in a completely different file.

To use this option, click in the area of the Main Edit Window where you want the Insert to begin, and then select the option from the drop down menu. Next select the file you want to be inserted using the file browser window that appears.

Select the file t	hat you want l	to insert into this audi	0:			? 🛛
Look in:	Desktop		<u>.</u>	+ 🗈	💣 🎹 •	
My Recent Documents Desktop My Documents	My Document My Computer My Network P Robocopy Smoothedit do My edit.WAV My r00003.WA test (2).WAV	laces ocumentation				
My Computer						
My Network Places	File <u>n</u> ame:	test.WAV			•	Open
1000	Files of type:	Audio Files			•	Cancel

Finally, click on Open and the file will be inserted in to the wave form at the selected point.

Paste Drop Down: Mix Insert From File

Just as Insert Another File did the same thing as Paste but using an external file instead of the 'clip board' so Mix Insert Another File does the same thing as Mix Paste but using an external audio file as the source for the audio to be mixed.

As before, this is done by selecting the point the Mix Insert is to start in an open wave form, then selecting the Mix Insert File option. Next select the file that you want to Mix Insert.

Select the file	that you want	to insert into this aud	io:		? 🔀
Look in:	Desktop		•	+ 🖹 💣 🛄+	
My Recent Documents Desktop My Documents My Computer	My Document My Computer My Network F Robocopy Smoothedit d My edit.WAV My edit.WAV Myr00003.W test (2).WAV	Places ocumentation AV			
My Network Places	File <u>n</u> ame:	test.WAV		•	Open
Fiduca	Files of type:	Audio Files		•	Cancel

Finally, you have to set the respective levels to mix the two audio sources at using the popup box (see mix paste for more details).

Mix Paste		341						1.11					-		
Original Audio Level:	_	· ·	10	4	^a		-	•			1	а. -	1	75	%
	æ	53	23	7	<u>.</u>	53	1	8	35	5	2	\mathcal{R}	Ţ,	1	
Amplification Level:	9	$\hat{\chi}$	9	å,	Ť,	8	6)))	$\widetilde{\mathfrak{h}}$	8	3	$\widetilde{\mathcal{X}}$	i.	75	%
Amplification Level.	a.	е	R	4	a,	¢,	-	9	Œ	e,	9	x	ю	75	10

As with Mix Paste, the levels will depend greatly on the source and destination audio as well as the kind of effect you are looking for. Experimentation is the key to getting the sound you are looking for.

Mix Insert From File is also available on the Edit menu.

Delete Selection 🖾

This option probably needs little by way of explanation. Basically, if you highlight a section in the wave form the then select this option, the highlighted section will be removed from the wave form and the two adjoining sections will be spliced together. You can Undo deleted selections so don't worry if you delete the wrong bit.

You can also delete a selection by highlighting it and the pressing the Delete key on the keyboard. You can also select Delete Selection from the Edit menu.

Replace With Silence 🌌

As with Delete Selection, this one is fairly self explanatory. If you highlight a section of the wave form and then select this option, the highlighted section will be replaced with a silence of the same duration.





You can also access this option using the Mute Selection on the Edit menu.

Select C hannels To Edit (inc Drop Down Menu)

If you are working on a stereo audio file then the Main Edit Window will be split horizontally in to two, with the upper wave form representing the left hand side of the audio and the lower representing the right.

By default, any editing that you do in SmoothEdit[™] will be applied to both channels at the same time but the Select Channels To Edit button on the Audio Edit Tool Bar allows you to select which channel you want to work with by using the drop down list.

Bile Edit Audio Tools Help	
🗠 🖓 👗 🖬 + 🚮 🐻 🛍 + 🔀 🌠	
	Only edit the left channel
	Only edit the right channel

If the Only Edit The Left Channel is selected then the right hand side (lower) section of the wave form is disabled and your edits will only affect the left hand side (top) of the wave form.



Obviously if you select the Only Edit The Right Channel option, the opposite is true.

P Squared Smooth Edit - [C:\Documents and Settings\Administrator\Desktop\myr0000 Ele Edit Audio Tools Help	- @ ×
	dB
new shull be but the stand with the stand of	F1 F4
	10 90
	90 10 4
	1
	F -1 -4
	10 90
	-10 -4
	E -1
hms 0:01.0 0:02.0 0:03.0 0:04.0 0:(Set 00:00	:02.22
► ∞ ■ ► ■ < < < < < < < < < < < < < < < < <	0:00:05.43 3:22:00.00

Finally, to return to editing both channels, click on the Select Both Channels button to re-enable both channels.

N.B. You can also select the left or right channel to by moving the mouse cursor to the top or bottom part of the upper or lower wave forms respectively. As you approach the top of the upper wave form, the mouse cursor changes to include a 'L' icon to indicate that clicking here would allow you to edit just the left hand side of the stereo wave form.



Moving the cursor to the bottom part of the lower wave form will change the cursor to display an 'R' icon indicating that clicking here will restrict editing to only the right hand side of the wave form.



If you click on the centre of the Main Edit Window (between the upper and lower wave forms) then both left and right hand sides are re-enabled (the same as clicking .).

Insert Silence 📓

The Insert Silence option on the Audio Edit Tool Bar is used to insert a specified period of silence at the point in the wave form where the cursor currently is.

🐺 P Squared Smooth Edit - [C:\Doci	ments and Settings\Administrator\Desktop\myr00004.WAV]	
Ele Edit Audio Tools Help		- 8 ×
		-
い Ce 🌾 🏙 🕈 📓 📽 🕇 📓		
allander skillen for der sinder behaver sinder Verster verster sinder sinder sinder sinder sinder sinder sinder Verster verster sinder sind		dB -1 -4 -90 -10 -4 -1
		-1 -4 -90 -10 -4 -1
hms 0:01.0	0:02.0 0:03.0 0:04.0 0:05.0	
▶ ∞ ■ ▶ Ⅱ % § § ● ← ► ● ► ○ § § 9	00:00:01.74	

In this example, the cursor (dotted yellow line) has been positions at the point in the audio file where we want to insert some silence.

👄 Insert Silence	
What duration of sile you want to insert?	ence (in seconds) do
2	
Cancel	ΟΚ

Selecting the Insert Silence option allows you to specify the length of the silence you want to insert. In this case we have elected to insert 2 seconds of silence.



As you can see, the silence has been inserted in to the wave form.

CAUTION: If you select an area on the wave form (not just put the cursor where you want it to start) then Insert Silence then the selected area will be replaced with silence. If the selected area is shorter in duration than the selected area then the rest of the inserted silent period will be inserted after the selected area in the normal way.

The Inset Silence option can also be found on the Audio menu.

Delete Silences 🛛 🖾

The Delete Silences tool may not be familiar from other audio editors as not many of them have this type of option. The Delete Silences tools will search through the selected section of the wave form looking for sections that it determines are 'silent', and then removes them. This can be used to automatically 'top and tail' an audio file removing silences from the beginning and end of the audio but it will also strip out silent periods from the middle of the file. Let's see what happens if we apply it to the file we were just inserting silences to.

First double click (or press Ctrl + A or select Select Entire Wave from the Edit menu) to select the entire wave form.

P Squared Smooth Edit - [C:\Documents and Settings\Administrator\Desktop\myr00004.WAV]	
🖾 Ele Edit Audio Iools Help	- 8 ×
🛛 🗠 🖓 🗟 🕶 📆 📆 🛍 👻 🔯 🌠 🗮 🔹 📗 🚟 🕼 🕌 🚼 🧱 🔛 Deleting Silence	
	dB
	1 -4 -10 -90 -10
	4
	10 -90 10 -4 -1
hms 0:01.0 0:02.0 0:03.0 0:04.0 0:05.0 0:06.0 0 Sel: 00:00	:07.43
∞ ⊨ III Q Q Q Length: 00 O ⊨ ⊨ ⊨ Q <td< td=""><td>0:00:07.43</td></td<>	0:00:07.43

Next select the Delete Silences button.

🖾 Audio Editor - Audio Transformation 🛛 🔀
Delete Silence: Silence is defined as where the Audio Level is below (negative): 60 db Duration that the Audio Level must be below this level before it is deleted: 100 milliseconds Duration that the Audio Level must be above this level to be kept: 25 milliseconds
OK Cancel

This opens the Delete Silences options window. In here you set the level for three things before the process is started. The first option is the audio level below which audio is classed as silent. This needs to be set low enough that no audio is lost but above the level of general background noise or 'hum. The default is -60dB which is probably a good starting point for most people.

The next option is the duration (in milliseconds) that the audio can be silent for before SmoothEdit[™] starts to tag the area as silent. This is set to 100 milliseconds by default as you do not want SmoothEdit[™] trimming silent periods when they are supposed to be in the audio (for dramatic pause?). The final option is the duration that audio has to rise above the silence threshold (set in the first option) before SmoothEdit[™] determines that the silences has ended. This needs to be short as you don't want SmoothEdit[™] to be slow in react to a silent period finishing and audio starting. The default for this is 25 milliseconds.

Ok, so if we run the Remove Silences from the file we were working on, the silence we just installed is removed automatically.



Because we set the Delete Silence parameters fairly loosely, the silences at the beginning middle and end remain in place but if we were to tighten up the parameters, we can see that the effect is more pronounced.



Delete Silence is also available on the Audio Menu

Reverse Selection 🧮

The Reverse option on the Audio Edit Tool Bar menu will reverse the selected section of the wave form.

You can also reverse a selected area using the Reverse Selection option on the Audio menu.

Time Stretch 🔳

The Time Stretch tool in SmoothEdit[™] can be allows you to alter the length of a selected part of the wave form. This may be important if you are producing audio that needs to be of an exact length (for say split advert breaks) but you are having difficulties getting it spot on.

To use the Time Stretch tool, first select the section of the wave form that you want to stretch / shrink. If you need the entire file to be of a specific length then select the entire wave form.



(N.B. That the overall length is for the audio file is currently 5.34 seconds).

Next click on the Time Stretch button on the Audio Edit Tool Bar or the Time Stretch option on the Audio menu to access the Time Stretch options.

11110-0	tretch Options		Presets:		
Current length of the audio: New length of the audio: Preserve the Pitch of the audio		5.434 7.0 d 🔽	10 Seconds 20 Seconds 30 Seconds 40 Seconds 60 Seconds		
Note:	Changing the length o by more than 5% while pitch can produce odd	preserving the		0	

This window shows the current length of the selected area and allows you to type in the length that you want it to be after the stretch process.

You can also decide whether you wish to preserve the pitch of the audio by ticking the Preserve The Pitch Of The Audio option. Time stretching can be done in two ways. The simplest is to slow down or speed up the playback of the selected section to get to the desired length. The down side to this is that the pitch of the audio changes and if the stretch is too short or long this may be very noticeable. The alternative is a far more complicated process or repeating / dropping tiny sections of the audio and inserting / removing tiny silences to get to the required length. This method does not effect the pitch of the recorded audio but tends to be very noticeable if the stretch is more than say 5% either way of the original length of the audio.

Which ever method you chose, Time Stretching should only be used to make small adjustments to the length of the audio or the results will be apparent to the listener.

In this example, we will stretch the audio to a total of 7.0 seconds and preserve the pitch by ticking the preserve box.



As you can see, the new overall length is 6.0 seconds but because we stretched it by around $\frac{1}{2}$ a second on a 5 second audio file, that is a change of about 20% so the effect on the audio is very pronounced. For best results you should try to restrict the time stretch to about 5% of the overall length of the original audio.

You may have also noticed that there were a number of preset values to the right of the Time Stretch Options window. You can load one of these preset values by clicking on them so if you need a time stretch to 10 seconds, just click on the 10 seconds preset. You can also save your own presets by putting in the values you want to use and then clicking on the add button.

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You will then be asked to add a name for your preset.

😂 Add Time Stre	tch Preset 🛛 🔣
What do you want to	o call this Preset?
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Your time stretch will then be added to the list of presets.

Audio Editor - Audio Ti	ransformation		×
Time Stretch Options Current length of the audio: New length of the audio: Preserve the Pitch of the audi Note: Changing the length of by more than 5% while pitch can produce odd	f a piece of audio preserving the	Presets: 10 Seconds 20 Seconds 30 Seconds 40 Seconds 6 Sec Preserve Pitch 60 Seconds	8
		ок с	ancel

You can also delete presets by highlighting them and the clicking on the remove preset button.

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You can also access the Time Stretching tools from the Time Stretch option on the Audio menu.



Possible the most used function in audio editing, the Amplify button on the Audio Edit Tool Bar allows you to either increase or reduce the amplitude (or volume) of the section of the wave form selected in the Main Edit Window.

Let's say that we open a file and then decide that we want to reduce the volume of the entire wave form. First we use the Select Entire Wave option on the Edit menu, this will then select the entire wave form as shown below.

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Next go to the Audio menu and select Amplify from the list. This will then open the Audio Amplification window which allows you to set the amount you want to increase or reduce the selected area of the wave form by.

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_									οк	ŝ				Cancel

In this case, we want to reduce the volume to half it's original so all that we need to do is set the Amplification level to 50% by using the slider or typing the level directly in to the percentage box. SmoothEdit[™] will alter the amplification of the selected area when you click on OK.



You can also access the Amplify tool using the Amplify option on the Audio menu.

Normalise 🧱

Normalise is closely related to Amplify in that Normalise alters the volume of the selected section of the wave form but in many ways, Normalise is more useful than Amplify because it allows you to apply a change in Amplification in a safe way that prevents the audio distorting due to over amplification in certain sections of the wave form.

The basic idea is simple. A normal wave form is a graph of peaks and troughs and like any graph, there is always a point in the wave form that is the loudest single point. When you perform a normalisation, SmoothEdit[™] scans through the wave form to find this point. It then works out how much it would need to amplify this point by in order to reach the percentage level that you have specified when setting up the Normalisation. It then applies the same level of amplification to the entire wave form. This is important because as the loudest point is used to calculate the amplification level and this level is applied to the rest of the wave form, you avoid distortion by over amplification. It is also important because if multiple audio files are normalised to the same level, they should be pretty even in terms of volume as the loudest point in each file will always be at the same level.

Let's look at an example. We start with the file that we reduced by 50% in the Amplification section.

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First use the Select Entire Wave option on the Edit Menu (or hit Ctrl + A) to select the entire wave form.



Next click on the Normalise button on the tool bar 2. This will open the Normalise options window.



This allows you to set the level that you want to normalise to, i.e. the level on the wave form scale that you want the loudest point in the audio file to be amplified to. You can see that to the right of the Main Edit Window is a scale (one for the top wave form, one for the bottom wave form) which goes from - 90dB to 0dB. The exact meaning of this scale in not covered in this documentation but all you really need to know is that -90dB is silent and 0dB is the loudest value you can have on a wave form. The Normalisation percentage refers to this scale so if you were to set the Normalisation to 100% then the loudest point in the wave form would be amplified such that it was at 0dB and the then the same amplification value would be applied to the rest of the wave form. If you set the Normalisation value to 50% then the loudest point in the wave form would be amplified to the rest of the form would be amplified (or reduced) to make it hit -4dB (half way up the scale – don't ask!) and the same value would be applied to the rest of the rest of the wave form.

For this example, let's set the normalisation value to 90% and see what happens.



Here we can see that the entire wave form has been amplified such the loudest section peaks at 90% of the maximum value of the wave form.

There is also a tick option to Remove DC-Bias when Normalising. DC-Bias occurs sometimes when you are recording from external sources that are not calibrated in the same way as a PC. Basically, the central point of the wave form (horizontally) will not be on the -90dB line on the scale. The Remove DC-Bias option simply moves the entire wave form to the correct values as part of the Normalisation process.

You can also access the Normalisation tool by clicking on the Normalise option on the Audio menu.

Fade In 🚨

The Fade In button on the Audio Edit Tool Bar will alter the selected section of the wave form so that the beginning part of the selection will start at zero volume and the volume will steadily rise across the selected area to reach the starting volume at the end of the selected area.



This is better explained with an example. Let's look at our wave form again.

In this case, we have used the mouse to select the first half of the wave form (used the left mouse button to select the area).

If we now click on the Fade In 🚨 button, the wave form will be altered to fade in the volume over the selected area.



This function is great for smoothing abrupt starts to audio files or for mixing two audio segments together.

You can access the Fade In function by using the Fade In option on the Audio menu.

Fade Out 🚨

As you may have already guessed does the opposite to Fade In. Basically, if you can select a section of a wave form and then use the Fade Out function, the volume of the wave form will be gradually reduced to zero over the selected area.



Becomes:



This function is very useful for ending audio files as it allows you to put a soft sounding ending and avoids abrupt 'cut off' sounds.

As ever, you can also access the Fade Out function from the Fade Out option on the Audio menu.

The Main Edit Window

The Main Edit Window is makes up the main part of the SmoothEdit[™] window and is used to display either the whole wave form or a part of the wave form as well as additional timing information and extra markers such as Intro, Hook and Extro points.

The Main Edit Window is used to navigate around the audio wave form and to select the areas of the wave form that you want to use SmoothEdit[™] to edit. A good understanding of the Main Edit Window and the information is provides is essential to get the most from SmoothEdit[™].



The elements of the Main Edit Window are covered in more details below.

View Scrub Bar

The View Scrub Bar is a very important tool in SmoothEdit[™]. The bar runs along the top of the Main Edit Window and is used to display the length of the wave form that is currently visible in the Main Edit Window in proportion to the entire length of the file. The full width of the bar represents the full length of the audio whilst the light green section of the Scrub Edit Bar represents the portion of the wave form that is visible in the Main Edit Window.

This means that is the entire wave form is visible then the entire View Scrub Bar is coloured green as in the example below.



If however, you zoom in to a section of the wave form then the Main Edit Window only shows a portion of the entire wave form and this portion is shown in light green on the View Scrub Bar as in this example.



When this is the case, you can move the mouse cursor to the View Scrub Bar and the mouse icon will turn in to a hand (as above) and you can 'scrub' the area of the portion of the wave form displayed in the Main Edit Window by left clicking and the dragging the light green part of the View Scrub Bar to the left or right.

You may also notice that in the example above, there is a slightly darker green section on the View Scrub Bar.



This represents the section of the current view in the Main Edit Window that is also selected (in white in the main wave form).

Main Wave Form

The Main Wave Form section of the Main Edit Window shows the actual audio wave form for the entire file or the selected section of the audio file.

The audio is represented as a graph with the peaks and troughs plotting the value of the samples that make up the digital audio file. Roughly speaking the higher the peaks, the louder that part of the audio is.

When dealing with stereo wave forms, the Main Wave Form is divided in to two sections, the upper section represents the left hand side of the stereo file and the lower represents the right.

Audio Cursor

The Audio Cursor is a single point in the audio wave form that is currently selected in SmoothEdit[™] and is indicated by a vertical dashed yellow line. The Audio Cursor can be moved around the wave form by using the left mouse button to click on the place in the wave form where you want to position the cursor.

The Cursor is important because it is used to indicate where playback will commence from in certain playback modes in SmoothEdit[™] plus it is also used to indicate where other functions such as Paste and Paste Mix will begin.

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When SmoothEdit[™] is not playing audio, the Current Cursor / Play Time indicator shows the position of the Audio Cursor point.

Available Space For Recording

This counter shows the estimated maximum time left for recording in SmoothEdit[™] based on available hard disk space on the temporary file location (see Tools Menu > Options).

Length Of Audio File

This counter shows the overall length of the audio file currently loaded.

VU Bars

The SmoothEdit[™] VU bars show the level of audio playback when SmoothEdit[™] is playing audio and the level of incoming audio when SmoothEdit[™] is recording audio.

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The VU's are intended as an indicator only and should not be used to calibrate external audio equipment.

Audio Volume Scale

The scale to the right of the Main Wave Form shows the scale of deviation of the wave form around the central axis at -90dB (which is effectively silence) and 0dB (which is effectively as loud as a digital file can go before it distorts). The scale is a logarithmic scale and should only be used as a visual indicator as to the proportional volume of the audio within the file.

Selected Area

The concept of selecting an area of the wave form to view or work with is key to understanding how audio editing using SmoothEdit[™] works. The example below shows typical wave form with a section selected.



The selected area is the area that is in white and the beginning and end are indicated by a pair of dashed yellow, vertical lines. When an area of a wave form is selected in SmoothEdit[™], this area then becomes the section of the wave form that is affected by any of the tools on the Audio Edit Tool Bar or on the Audio Menu. The selected area can also be used to alter the amount of the wave file that is displayed in the Main Edit Window by using the Zoom To Selection option on the Zoom Tool Bar.

Selecting An Area To Edit

To select and area of a wave form, use the left mouse button to drag over the area you want to select. The length of the selected area is displayed in the Length Of Select Area Indication (bottom right of Main Edit Window) and is also displayed as a dark green bar on the View Scrub Window.

You can also opt to work with only the left or right side of the audio by using the Channels To Select option on the Audio Edit Tool Bar (see Select Channel To Edit), and then select the part of the wave form you want to work with in the normal way.

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De-selecting An Area

You can de-select the selected are by click the left mouse button anywhere in the wave form.

Altering The Selected Area

You can also change the selected area without totally de-selecting it by using the select tabs at the top of the dotted yellow line at the beginning and end of the selected area. As you move the mouse cursor over these, the mouse cursor changes to a hand and when this happens, you can use the left mouse button to 'drag' the beginning or end of the selected area to a different place in the wave form.

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Selecting The Entire Wave Form

You can select the entire wave form by either:

- Double clicking anywhere in the wave form.
- Using the Select All option on the Edit Menu.
- Pressing Ctrl + A on the keyboard

Please note that if you wish to perform any type of amplification, time stretching, copy / cutting, normalising or virtually any other function, to the entire audio file, you must first select the entire wave form using one of the above methods.

Current Position / P lay Position

This counter performs two different functions depending on whether SmoothEdit[™] is playing audio or not. When SmoothEdit[™] is not playing audio, this counter shows the exact position of the Audio Cursor.

When SmoothEdit[™] is playing audio, this indicator shows the exact position of the currently playing point within the wave form.

File Type Indicator

This indicates the file type and sample rate of the audio file you are currently working on.

Length Of Selected Area

This indicator only becomes visible when you have Selected an area of the file (see Selected Area). Once an area has been selected, the exact length of the selected area is displayed here.



Visible Area

The Visible Area indicator on the View Scrub Bar shows the portion of the entire audio file that is currently displayed in the Main Edit Window. For a full explanation, see View Scrub Bar.

The Playback Tool Bar

The Playback Tool Bar includes all the controls you need to control audio playback in SmoothEdit[™]. The buttons on the Playback Tool Bar not only allow you to control the playback of audio but also to control the way in which SmoothEdit[™] deals with playing audio.



The options on the Playback Tool Bar are examined in details below.

Normal Play 🚬

The Normal Play button sets SmoothEdit[™] to operate in normal playback mode. In this mode, SmoothEdit[™] will do the following:

- When a part of the audio file is selected: SmoothEdit[™] will play only the selected area. Clicking play will start playback from the start of the selected are and will SmoothEdit[™] will automatically stop playback at the end of the selected area.
- When no part of the audio is selected: SmoothEdit[™] will start playback from the cursor point (the yellow vertical dashed line) and continue until the end of the file or until you stop playback manually.

Loop Play 🔗

In Loop Play mode, SmoothEdit[™] will do the following depending on whether a section of the audio file has been selected.

- When a part of the audio file is selected: SmoothEdit[™] will start playback from the start of the selected area but when it reaches the end of the selected area, it will automatically return to the begin of the selected area and start playback again.
- When no part of the audio is selected: SmoothEdit[™] will start playback from the cursor point (the yellow vertical dashed line) and continue until the end of the audio file. At this point it will return back to the cursor point and start playback again.

Play To End 🕑

In the Play To End mode, SmoothEdit[™] will do the following depending on whether a section of the audio file has been selected or not.

- When a part of the audio file is selected: SmoothEdit[™] will play from the beginning of the selected area but will continue on to the end of the audio file regardless of where the selected area ends.
- When no part of the audio is selected: SmoothEdit[™] will start playback from the cursor point (the yellow vertical dashed line) and continue until the end of the file.

Play Hook 🖭

This special mode is only available if you have an audio file that has the 'hook' point specified. This would normally be the case if the wave file was generated from a Wave Chunk compliant playout or news system (like Scoop or Myriad) and the hook has been set in this system.

When the Hook Play button is pressed, the Hook area is automatically selected and playback begins. When the end of the hook is reached, SmoothEdit[™] automatically stops playback.

N.B. This option is not enabled in standard SmoothEdit[™].

Stop 💻

The Stop button stops SmoothEdit[™] playback of the audio file regardless of that play mode you are in. This option is only enabled while SmoothEdit[™] is playing audio.

Play 📐

The Play button starts playback in SmoothEdit[™]. The icon on the Play button changes to reflect the current play mode of SmoothEdit[™].

Pause 🛄

The Pause button temporarily pauses playback and the Pause button turns blue. Clicking on the Pause button will resume playback from the point that it was paused regardless of playback mode.

Jump To Start 📕

The Jump To Start button moves the cursor point (horizontal dashed yellow line) to the very beginning of the audio file.

Record 🤎

The Record button will start SmoothEdit[™] recording from the cursor point in the audio file. Once recording, you can click on the Record button or the Stop button to stop recording.

While recording, the VU bars change to show the incoming audio level. The incoming wave form is also displayed on screen although this is not updated in real time.



The Jump To End button moves the cursor point (horizontal dashed yellow line) to the very end of the audio file.

The Zoom Tool Bar

The Zoom Tool Bar contains the buttons used to zoom in and out of the wave form to allow you to view and edit it more accurately.



The options on the Zoom Tool Bar are explained in more detail below.

Zoom In

The Zoom In button zooms in to the centre of the wave form visible in the Main Edit Window. You can click this button multiple times to zoom in further. The Zoom In button always zooms in to the centre of the wave form visible in the Main Edit Window. You can then use the View Scrub Bar to reposition the zoomed area you are looking at.

TIP: If you use the Zoom TO Selection button to zoom in to a selected are, you can then use the Zoom In button to continue to zoom in to the centre of the selected area.



The Zoom Out button does the opposite to the Zoom In by zooming the view out from the centre of the wave form visible in the Main Edit Window. You can click the Zoom Out button multiple time to zoom out further, up to the point that the whole wave form is visible. The Zoom Out button only becomes visible when you have zoomed in to a section of the wave form.

View Full 🚇

No matter what part of the wave form you are looking at or how far zoomed in you are on a section, the View Full button will always zoom all the way out so the entire wave form is visible in the Main Edit window.

Zoom To Selection

The Zoom To Selection will zoom such that the selected area of the wave form fills the entire Main Edit Window. This option is only available once you have selected a section of the wave form that you want to take a closer look at.

Zoom In To Start Of Selection

The Zoom In To Start Of Selection is similar to Zoom To Selection but instead of zooming in so that the entire selected area is displayed in the Main Edit Window, this option shows only the beginning of the selected area as well as a small section of the wave form before the start of the selected area.



Zoom In To End Of Selection

This final button on the Zoom Tool Bar does the same as the Zoom In To Start Of Selection but instead of focussing on the start of the selected area, this option zooms in to the end of the selected are and the part of the wave form directly following the end of the selected area.

Appendix A: Audio Formats That SmoothEdit[™] Supports

SmoothEdit[™] can open and save files of the following types and formats.

Windows PCM Linear (WAV) – Stereo & Mono – 8KHz to 96Hhz Windows ADPCM (WAV) – Stereo & Mono – 8KHz to 44.1Hhz MPEG Layer 2 (MP2) – Stereo & Mono – 80kbps to 350Kbps MPEG Layer 3 (MP3) – Stereo & Mono – 80kbps to 350Kbps Ogg Vorbis (OGG) – Stereo & Mono – 48kbps to 256Kbps Windows Media (WMA) – Stereo & Mono – 6.5kbps to 128Kbps

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