



MACVCD X READ ME

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About MacVCD X

MacVCD X is the easy-to-use Mac OS X VCD & Super VCD player with auto play, auto eject, full screen display, small screen display (floating or regular window), 2nd screen display, easy to use standard Macintosh interface, track selection & repeat track features, multi-language & karaoke soundtrack support. VCD movies are frequently stored in multiple files (called tracks) and are often stored on more than one disk. MacVCD automatically recognizes this Video CD format, finds, loads and plays the movie for you, automatically chaining the tracks together for you and auto ejecting each disk when it's done. It also offers advanced features such as Hands Free(TM) speech activated controls, fast-motion, slow-motion and backwards playback. (Note: SVCD playback requires QT MPEG2 component)

MacVCD X - the easy way to play™

System Requirements

To run MacVCD X you need:

- Macintosh™ PowerPC G3 or later or any Intel Mac
- Mac OS X® 10.1 or later (We recommend 10.1.5 for better playback on older machines)
- QuickTime® 5 or later (We recommend Quicktime 6 as it has an improved MPEG codec).

To play SuperVCDs you need:

- the Quicktime MPEG2 Playback Component available from <http://store.apple.com/> for \$20US.
- the Quicktime MPEG2 Playback Component available in the Mireth Mac SVCD Bundle (contains MacVCD X, iVCD & the the Quicktime MPEG2 Playback Component for \$54.95 at <http://www.mireth.com/pub/mac-svcd-bdl.html> for \$54.95US.

To play AVI, Divx, Xvid you need:

- the Divx component available from <http://www.divx.com/>

To play a movie in full screen, you need:

- Macintosh™ PowerPC G3/300 mhz or faster or any Intel Mac

To play a movie in fast motion, you need:

- Macintosh™ PowerPC G3/500 mhz or faster or any Intel Mac

To display a movie on a second screen, you need:

- Macintosh™ PowerPC G3 with a video out port (to determine if your computer supports this, see your Owner's Manual)

To use the "hands free" feature, you need:

- Macintosh™ PowerPC G3/300 mhz or faster or any Intel Mac
- The Apple Speech Recognition module installed on your computer. This has to be installed and configured before the "hands free" feature will work. For further information, see
<http://www.apple.com/macos/speech/>
- a USB stereo Headset (headphone and microphone) we used the Plantronics DSP-300 Headset

Installing/Uninstalling MacVCD X

If you want to install and run the Demo, see the "Appendix B – Demo" section of this document.

How to Install MacVCD X

1. Drag the MacVCD X folder to wherever you keep application software.
2. Double click the MacVCD X icon. The Registration dialog will appear when you launch the program, displaying four buttons:
 - Quit** – to quit the program, click the "Quit" button
 - Run Demo** – (Downloaded version only). For further information, refer to the "Appendix B – Demo" section of this document.
 - Buy Now** – (Downloaded version only) If you wish to purchase this program now online, click the "Buy Now" button and follow the instructions.
 - Register** – To register the program now, follow the instructions below.
3. Register MacVCD X. The Registration dialog will appear when you launch the program.
 - Enter the License Type, Purchaser's Email ID and Registration Key supplied when you bought the product.

If you purchased online, the easiest way to do this is to copy (Apple C) and paste (Apple V) the information from the email we sent you.

If you purchased using the "Buy Now" button, skip this step.
 - Click the "Register" Button

If you have entered the Registration information correctly, the "Registered" message will be displayed.

If there is a problem with the registration information, the "Invalid Registration Information" dialog will appear. To correct the problem, refer to the "MacVCD X FAQ" in the documentation folder.
4. Update the preferences.

From the "MacVCD X" menu, select "Preferences" and configure the following items:

 - Auto Play** - Tick this box to have MacVCD X automatically play a VCD when it is inserted in the drive. Default value is "on". (For this feature to work, MacVCD X must running as the foreground application.)
 - Auto Eject** - Tick this box to have MacVCD X automatically eject the VCD when it has finished. Default value is "on".

Auto Hide Menu - Tick this box to automatically hide the Menu Bar. Default value is "off". (To hide the Menu Bar during play, use the "Hide Menu Bar" toggle on the "Controls" menu.)

Auto Hide Controller - Tick this box to automatically hide the Movie Controller. Default value is "off". (To hide the Movie Controller during play, use the "Hide Controller" toggle on the "Controls" menu.)

Auto Enable "Hands Free" - Tick this box to automatically turn on the speech recognition controls. Default value is "off". (To turn off Hands Free during play, use the "Hands Free On/Off" toggle on the "Controls" menu.)

Present Movie on Full Screen - Tick this box to automatically present the movie in Full Screen. Default value is "on". (To present the movie on full screen during play, use the "Toggle Full Screen" toggle on the "Edit" menu.)

Stretch image to fill screen (only available in "Full Screen" playback) - Tick this box to automatically stretch the image to fill the screen. Otherwise, the aspect ratio will be preserved. Default value is "off".

Present Movie on Display 2 (only available in "Full Screen" playback) - Tick this box to automatically present the movie on a second display (like a TV) if it is connected to your computer. If there is no second display then MacVCD X will present the movie on your primary display even if this option is selected. Default value is "on".

Present Movie in Floating Window - Tick this box to present the movie in a floating window when small screen play is selected. Default value is "on". To automatically present the movie in small Floating Windows, un-tick the "Present Movie on Full Screen" preference and tick the "Present Movie in Floating Windows" preference.

Show Segment Items - A VCD contains two areas, the Sequence items where movies are stored and the Segment items where photos and menu items are stored. Tick this box to present both a Photo VCD and the menu items on a VCD. Default value is "off".

5. Once you have updated your preferences, quit from MacVCD X.

How to uninstall MacVCD X

1. Drag the preferences files to the Trash
"\$HOME/Library/Preferences/com.mireth.macvcdx.plist"
2. Move the MacVCD X folder from wherever you keep application software to the Trash.
3. If you've created an alias to MacVCD X, move it to the Trash. If you are running MacVCD X from the Dock, drag it out of the Dock.
4. Empty the Trash.

How to upgrade MacVCD X

1. If you've created an alias to the previous version of the program, move the alias to the Trash. Empty the trash. If you're running the program from the dock, move the program icon off the dock.
2. To install the upgrade, follow the instructions in the "How to Install MacVCD X" section of this document.

Playing movies

How to Play a VCD or SVCD

1. To run MacVCD X, double click the MacVCD X icon.
2. Insert a Video CD into the CD drive. It will appear in the VCD menu.
If Auto Play is enabled, the VCD will play automatically.
If Auto Play is not enabled, you need to manually start movie playback using any of the available controls.
3. Adjust the volume and click the play button. For more information, see the "Appendix A – Controls" section of this document.

Note: SVCD playback requires that the Quicktime MPEG2 Playback Component be installed. For more information, see the "System Requirements" section of this document.

How to Play a QuickTime Movie, AVI, Divx, Xvid

1. To run MacVCD X, double click the MacVCD X icon.
2. Open the movie using File>Open, navigate to the QuickTime file and click the Open button.

Note: AVI, Divx, Xvid playback requires that the Divx Component be installed. For more information, see the "System Requirements" section of this document.

There is a known issue with AVI, DivX, Xvid playback on Intel Mac - see Known Problems section of this document for details

How to Play a Photo VCD (Ulead)

1. To run MacVCD X, double click the MacVCD X icon.
2. If you have not already done so, open the Preferences and select the item titled **Show Segment Items**. You only need to do this once.
3. Insert a Video CD into the CD drive. It will appear in the VCD menu.
If Auto Play is enabled, the VCD will play automatically.
If Auto Play is not enabled, you need to manually start movie playback using any of the available controls.
4. Adjust the volume and click the play button. For more information, see the "Appendix A – Controls" section of this document.

How to Play a Multi Language Soundtrack VCD

Typically, if a VCD supports multi language soundtracks, it does so by recording one language soundtrack on the left mono track and a second language on the right mono track.

- To play only one language soundtrack, select Mono Left or Mono Right from the Sound Menu.
- If you select Stereo, you will hear both language tracks at the same time.

How to Play a Karaoke VCD

Typically, if a VCD supports karaoke soundtracks, it does so by recording the instrumental track on one mono track and the vocal track on the other track.

- To play the soundtrack without the vocal track, select Mono Left or Mono Right from the Sound Menu. Depending on the VCD one of these settings will eliminate the vocal track.
- To play both the vocal and instrumental tracks, select Stereo from the Sound Menu.

How to Display the movie on a second screen

There are a variety of video displays that you may be able to connect to your Macintosh, including a TV. To see whether your computer supports this, refer to your Owner's Manual.

1. Connect the second display to your computer, following the instructions in your Owner's Manual.
2. To run MacVCD X, double click the MacVCD X icon.
3. In File>Preferences, check "Present Movie on Display 2" .
4. Insert the VCD.
5. Play the Movie.

How to Display more than one movie window at a time

You can watch more than one movie at a time using MacVCD X. To watch more than one movie:

1. Play the first movie.
2. Open the second movie window (File>New).
3. With the second movie window in the foreground, open the second movie (File>Open) .
4. Play the second movie.

How to use the zoom feature

To zoom in:

1. From the System Preferences, enable Zoom (System Preferences/Universal Access/Seeing/Turn on Zoom).
2. Using the keys, control Zoom

Zoom In	Apple + Option + +
Zoom Out	Apple + Option + -

How to use the pan feature

To Pan:

1. Zoom in (For further information, refer to the "How to use the zoom feature" section of this document.
2. Using the mouse, control Pan.

How to Use the "Hands Free" feature

You can use the Macintosh built-in Speech Recognition feature to play a movie "hands free". In order to take advantage of this feature you need the following:

- The Apple Speech Recognition module installed on your computer. This has to be installed and configured before the "hands free" feature will work. Most Macintosh computers come with this module already installed. If you don't have it, you can get it from Apple. Please note that this document does not cover how to install or how to configure Apple Speech Recognition. For further information on Apple Speech Recognition, refer to the Apple site at <http://www.apple.com/macos/speech/>
- Because of noise interference caused by the hard drive, we recommend that you use an external microphone when using the "Hands Free" feature of MacVCD X. We used a USB stereo Headset (headphone and microphone), specifically the Plantronics DSP-300 Headset

To use the "Hands Free" feature, do the following:

1. Ensure that you know which listening method you are in so that you can give commands that will be listened to. For ease of use, we recommend you set your Speech control panel Listening method as follows:

Open the Speech control panel

From the "Option's" Pop-Up menu, select "Listening"

From the "Method" radio button options, select "Key(s) toggle listening on and off"

From the "Name is" Pop-Up menu, select "Optional before commands"

Close the Speech control panel

For further information about listening methods, refer to "Speech" in Mac Help

2. Plug in the microphone. For further information, refer to your Owner's Manual
3. To run MacVCD X, double click the MacVCD X icon.
4. From the Control Menu , turn "Hands Free" on.
5. Insert the VCD.
6. Play the Movie.

For a list of all the Speech Commands, refer to the "Appendix A – Controls" section of this document.

When you enable the "Hands Free" feature, the Speech Commands Window will open. This will allow you to verify that MacVCD X has understood your spoken command.

- If MacVCD X encounters a problem understanding your spoken command, it will advise you in the Speech Commands Window.
- If MacVCD X encounters a problem understanding 6 of your spoken commands in a row, it will turn "Hands Free" Off but will continue to play the movie. If this happens, either use the other controls (menu, controller, keyboard) to watch the movie, or turn "Hands Free" on and try again.

How to Use the "Repeat Track" feature

You can use the "Repeat Track" feature to play one track in a continuous loop.

To use the "Repeat Track" feature, do the following:

1. To run MacVCD X, double click the MacVCD X icon.
2. Insert the VCD.
3. From the Track Menu, Select Repeat Track
4. Select the track you want to loop
5. Play the Movie.

Editing/Saving Feature

You can use the save feature to make a QuickTime movie, using either an existing QuickTime movie or a VCD as the input. The advantage of doing this is that once you have converted a VCD to a QuickTime movie, you can edit it. You can use this feature to make a QuickTime movie of only your favourite clips from a movie.

There are three types of opens you can do, one from the Track menu and two from the File menu:

- **Select a Track from the Track menu.** This opens that VCD track as a Quicktime movie.
- **Open movie with all tracks.** This opens all the tracks on the VCD as a single large Quicktime movie.
- **Open.** This opens any Quicktime movie using the standard file open dialog. There are no restrictions on the type of file you can open but if Quicktime does not support the file type it may "hang" and you will need to force quit.

There are three types of saves you can do:

- **Save as Self-Contained Movie.** This allows you to create a movie file that contains all of its movie data. Because a Self-contained movie contains all of the movie, the created file will be large.
Note: There is a known Apple bug that results in a clip file saved as a Self-contained movie to be as large as the original movie. (e.g. If you take a 400 meg movie, make a 30 second clip that is 15 megs in size and save it as a self-contained movie, the self-contained movie will only show the 30 second clip, but will store the entire 400 meg file.)
- **Save as Movie File.** This allows you to create a movie file that only contains references to sections (or clips) from a movie that is stored separately. You will need the original movie to play the Movie "clip" file. to insert the VCD into the drive to play the Movie "clip" file (or have the original QuickTime movie on your hard drive.)
- **Save.** This allows you to save a QuickTime movie.

How to Use MacVCD to make a Self-Contained Movie

MacVCD allows you to create a movie file that contains all of its movie data. Such files are called self-contained movie files. You should use this procedure when you want to convert the VCD to a QuickTime Movie that you can play without having the VCD in the CD drive. You can save the entire VCD file or you can select your favorite scenes to save as a self contained movie. Self-contained movie files require a lot of space.

To convert a VCD to a Self-Contained Movie:

1. Play the VCD. Pause.
2. Select the entire movie.
3. From the File menu, select Save As Self Contained Movie.

To save an existing QuickTime movie as a Self-Contained Movie:

1. Play the QuickTime Movie. Pause.
2. Select the entire movie.
3. From the File menu, select Save As Self Contained Movie.

To create a Self-Contained Movie Clip File from a VCD or QuickTime movie:

For more information on the editing commands, refer to the “Appendix A – Controls” section of this document.

1. Play the VCD or QuickTime Movie. Pause.
2. Toggle to Original Movie Size. This will allow you to see both windows at the same time.
3. From the File menu, select New to create a new movie file.
4. Select the first clip you want to save to the clip file.
5. From the Edit menu, select Copy.
6. Select the new movie window and move the Scroll Slider to where you want to insert the clip in the new movie. (Typically, this would be at the end of the new movie).
7. From the Edit Menu, select Paste.
8. Repeat steps 4 through 7 for each clip you want to paste in to your new movie.
9. From the File menu, select Save As Self Contained Movie.

How to Use MacVCD to make a Movie File

MacVCD allows you to create a small file containing references to sections of a movie that is stored separately. This is called a Movie File. You can use this feature to create a movie file that will play your favorite scenes from a VCD or QuickTime movie. This will create a very small file containing references for your favourite scenes from the movie. You will need to insert the VCD into the drive (or open the QuickTime movie) to play the movie clip file.

For more information on the editing commands, refer to the “Appendix A – Controls” section of this document.

To create a Movie Clip File from a VCD or QuickTime movie:

1. Play the VCD or QuickTime Movie. Pause.
2. Toggle to Original Movie Size. This will allow you to see both windows at the same time.
3. From the File menu, select New to create a new movie file.
4. Select the first clip you want to save to the clip file.
5. From the Edit menu, select Copy.
6. Select the new movie window and move the Scroll Slider to where you want to insert the clip in the new movie. (Typically, this would be at the end of the new movie).
7. From the Edit Menu, select Paste.
8. Repeat steps 4 through 7 for each clip you want to paste in to your new movie.
9. From the File menu, select Save As Movie File.

Help

Troubleshooting Guide

If you have a problem with the software, please do the following:

1. Refer to the “Known Problems” section of this document for the latest information on existing problems.
2. Refer to the FAQ included in the documentation folder. It answers the most commonly asked questions about the software.
3. Check the Technical Support page of our site to see if any of the available FAQs answers your question:

http://www.mireth.com/text/technical_support.html

4. If your question is not answered, please contact Product Support at support@mireth.com. Please include the following information:
 - Problem description.
 - If you are having problems with a particular product, please include the following information as well:
 - What product and version you are having problems with.
To find the version number,
Mac: single click the product icon and Get Info (OS8/9- File:Get Info) (OSX- File:Show Info)
Windows: single click the product icon and show properties (File:Properties:Version tab)
 - What OS version you are running.
To find the version number,
Mac: OS8/9: (Apple Menu>About this Computer)
OS X: (Apple Menu>About this Mac)
Windows: (Start Menu:My Computer:Help>About Windows)
 - Whether you are using the demo version or the registered version of the product

Known Problems

- When playing video formats that require a third party component on an Intel Mac, the finder may report that it can't find the component. To correct this, follow these instructions:
 - quit from MacVCD X
 - do a Get Info on the MacVCD X program (highlight the MacVCD X icon and press the Apple + I keys)

- On the Get Info Dialog, check the "Open using Rosetta"
- Restart MacVCD X
- In Full Screen mode, the Volume Slider works but does not display the volume setting correctly. The Volume Slider works as expected in Original Screen Size mode.
- There are some problems playing VCDs on a Macintosh. For further information, see the "[MacVCD X FAQ](#)". If you want us to analyze the problem, send us the VCD. (Our address is at the top of this document.) Please be sure
- Under OS X 10.0, the OS does not recognize a VCD. Upgrade to OS 10.1 or later.
- Apple's speech recognition technology requires some getting used to and practice. Speech recognition works best if you are wearing headphones and have an external microphone. These are limitations of the Macintosh hardware and software.
- Please report any bugs found in this program or problems with this documentation to support@mireth.com

Version History

2002-03-10	4.0	Initial release supporting native Video CD playback on Mac OS X 10.1 or greater
2002-03-24	4.0.1	Maintenance Release
2002-07-05	4.1	New Features: - Playback in floating window - Add new preferences - playback in full screen, playback in floating window - Repeat Track feature - SuperVCD playback -File system optimized for faster VCD playback and recognizes VCDs that were previously not recognized -Screen saver is disabled -Movie position is preserved when you toggle between full screen and playback window -MacOS X 10.2 compatibility -Eliminates the 1.5 minute startup delay experienced on some Macintosh models.
2002-12-09	4.1.3	Maintenance Release
2003-01-14	4.1.6	Maintenance Release
2003-09-10	4.2	Adds support for (1) saving movie files or self contained movie files (so you could save VCD content to hard disk and save battery life), (2) basic editing (so you could delete small segments or create a favorite scenes movie), (3) multiple movie windows, (4) preserving the aspect ratio or stretching the movie to fit the full screen, (5) Use Apple-H to Hide and Apple-\ for Hands Free™, (6) Stop playing movies when hidden and resume playing movies when shown, (7) Fixed a problem where the VCD would restart from the beginning if a network disk or disk image was mounted, (8) eSellerate engine 3.0
2004-09-22	4.3.	Add support for Segment Items so that Photo VCDs from Ulead can be played – also menu items will play. Add "Open Movie With All Tracks" so that the entire VCD can be saved as a single Quicktime movie. Increase the number of supported Tracks beyond 32.
2005-02-08	4.4	Add support for SuperVCD Bundle serial numbers, add support of "OnCD" flag so that registration dialog can be customized for CD

2005-11-10 4.5 purchases. Updated for retail partners.
Added support for Quictime 7.

Appendix A – Controls

Basic Controls:

Action	Menu Bar	Controller	Keyboard	Speech
Select VCD	Select VCD and choose the VCD Title			
Select QuickTime movie	Select File>Open and open the QuickTime file		Apple + O	
Open all VCD tracks at once	Select File->Open movie with all tracks			
Pause/Play Toggle		Click the Play Button (>) to play and the Pause Button (□) to pause	Apple + SpaceBar	To Play Movie, say "Start Movie" To Pause Movie, say "Stop Movie"
Stop	Select File>Close		Apple + W	
Eject	Select Eject and select the VCD to eject			Say "Eject" to eject the currently selected VCD
Quit	Select File>Quit		Apple + Q	Say "Quit"

Screen Controls:

Action	Menu Bar	Controller	Keyboard	Speech
Original Movie Size/Full Screen Toggle Menu Bar	Select Edit > Toggle Full Screen		Apple + T	
Hide/Show Controller Bar	Select Controls > Hide/Show Controller		Apple + [Say "Controller"
Hide/Show Menu Bar	Select Controls > Hide Menu Bar		Apple + M	Say "Menu Bar"
Hide/Show Volume Button	Select Controls > Hide/Show Volume Button		Apple +]	

Turn Zoom On	Apple + Option + *
Zoom In	Apple + Option + +
Zoom Out	Apple + Option + -

Sound Controls:

Action	Menu Bar	Controller	Keyboard	Speech
Volume	Select Edit > Toggle Full Screen	Click the Volume Button and use the slider to adjust the volume	Up Arrow (^) and Down Arrow (v)	To increase the volume, say "Louder" To decrease the volume, say "Quieter"
Mute	Select Sound > Mute		Apple + /	Say "Mute"
Stereo Soundtrack	Select Sound > Stereo		Apple + E	Say "Stereo"
Mono Left Soundtrack	Select Sound > Mono Left		Apple + L	Say "Mono Left"
Mono Right Soundtrack	Select Sound > Mono Right		Apple + R	Say "Mono Right "

Play Controls:

Action	Menu Bar	Controller	Keyboard	Speech
Select Track	Select Track and choose the track			
Next Track	Select Controls > Next Track		Apple + K	Say "Next Track"
Previous Track	Select Controls > Previous Track		Apple + J	Say "Previous Track"
Repeat Track	Select Track > Repeat Track & click the track you want to loop		Apple + L	Say "Mono Left"
Select Chapter		Click on the Chapter Pop-Up Menu and choose the chapter		
Scroll Fast Forward/Fast		Click the Scroll Slider to the right to		

Reverse	fast forward to another position and to the left to fast reverse to a previous position in the movie		
Play Faster	Select Controls > Fast	Apple + -	Say "Fast"
Play Slower	Select Controls > Slow	Apple + =	Say "Slow"
Play Forward/Play Backwards	To Play Backwards, Select Controls > Backward To Play Forward, Select Control > Forward	Backwards - Apple + B Forwards - Apple + F	To Play Movie Backwards, say "Backward" To Play Movie Forwards, say "Forward"
Frame Forward	Click the Frame Forward Button (l>) to advance one frame in the movie	Keyboard Forward Arrow (>)	
Frame Backward	Click the Frame Backward Button (<l) to advance one frame in the movie	Keyboard Backward Arrow (<)	

Hands Free(TM) speech recognition Controls:

Action	Menu Bar	Controller	Keyboard	Speech
Enable/Disable Speech Recognition	To Enable Speech Recognition, Select Controls > Turn Hands Free On To Disable Speech Recognition, Select Controls > Turn Hands Free Off		Apple + \	
Display Speech Commands Window	The Speech Recognition Controller is displayed on the screen when Speech Recognition is turned on. It will disappear if the Menu Bar is hidden, or when Speech Recognition is turned off. To Open the Speech Commands			Say "Feedback"

	Window, choose "Open Speech Commands Windows" from the Menu at the bottom of the oval window (click on the "V")
--	---

Editing Controls:

Action	Menu Bar	Controller	Keyboard	Speech
Open New Window	Select File>New		Apple + N	
Save	Select File>Save		Apple + S	
Save as Movie File	Select File>Save as Movie File			
Save as Self-Contained Movie	File>Save as Self-Contained Movie			
Undo	Select Edit >Undo		Apple + Z	
Cut	Select Edit >Cut		Apple + X	
Copy	Select Edit > Copy		Apple + C	
Paste	Select Edit > Paste		Apple + V	
Clear	Select Edit > Clear			
Select Frame	Copy the Frame			
Select Clip		Move the Scroll Slider to the beginning of the clip. Hold down the Shift key and move the Scroll Slider to the end of the clip. The area of the Scroll Slider containing the clip will turn dark gray.		
Select All	Select Edit >Select All		Apple + A	
Deselect		Click on the Scroll Slider. The grayed area of the Scroll Slider will disappear.		

Appendix B – Demo

The program runs in demo mode when it has not been registered. The demo is provided so that you can see how the program works. The demo looks and performs exactly like the full version of the software, but will only play the first 5 minutes the first two tracks of a Video CD. In addition, saving is disabled.

Once you have purchased it, you can enable the fully functional version of the program by entering the registration information.

How to install and run the MacVCD X demo

1. To install, follow the “How to Install MacVCD X” instructions in this document, omitting Step 3. (To run the demo, registration is not required.)
2. To run, follow the “Playing movies” instructions in this document.

MacVCD, MacVCD X, NetShred, NetShred X, “The right software for the job”, “The Easy way to Play”, “The Internet Privacy Utility”, “The eDocument Shredder”, “SafePlace”, The Mac Trash Manager” are trademarks of The Mireth Technology Corporation.

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