

XChange Help

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XChange Help

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All those who have offered insights and suggestions for enhancement of this product.

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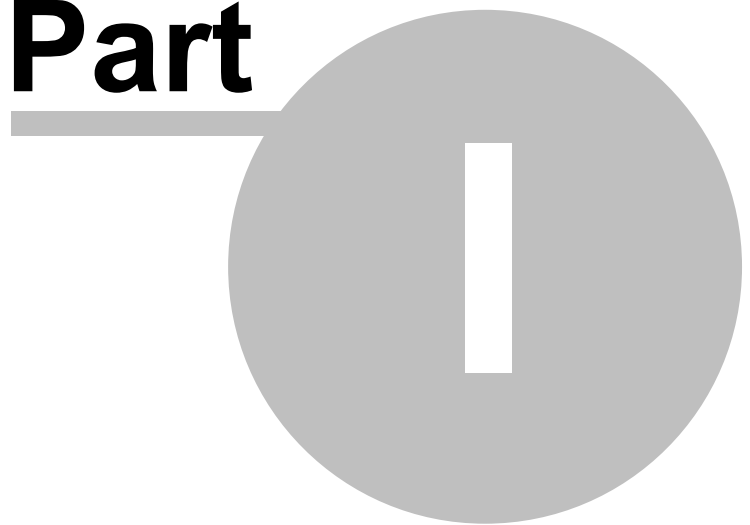
*December 2013 in Eden Prairie,
MN USA*

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Welcome to XChange

Part



XChange is a file converter that provides a convenient means of converting standard audio files into files that can be used by XStudio, DCS™ and Maestro™ systems.

XChange can output files in the standard .DAF format or files customized for import in an ACP system.

What do you want to learn about?

[What's new in this release](#)

[Key features of XChange](#)

[Upgrading from a previous version](#)

[Updating or Removing XChange](#)

[Using XChange](#)

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Introduction to XChange

Part



The need to convert generic audio files to formats that can be easily imported into DCS™ and Maestro™ systems provided the original inspiration for XChange. XChange is also used with our own XStudio system as a means of importing audio for air play.

XChange allows for easy conversion, along with basic trim and tail editing, of most standard audio formats into a digital audio file (.DAF) compatible with the original Computer Concepts Corporation DAF File Specification.

You can convert many popular types of audio, such as MPEG-3, MPEG-2 and wave, into linear PCM, apt-X™ or MPEG-2 digital audio files. XChange also provides a unique [Cart Editor](#), which allows for editing of the converted audio length, aux mark, and description information. You can also create multi-cut carts.

A unique feature of XChange is the ability to perform automatic file name conversion suitable for voice tracks, so that the output file name is formatted properly for your system. Using the day of the week, the specified hour of playback and your station identification, voice tracks can be automatically named to fit right into your system.

2.1 Key features

XChange is a robust application designed to simplify getting generic audio files into an XStudio, DCS™ or Maestro™ system. Here are a few of the key features:

- Converts source files of types wav (.wav), MPEG-2 (.mp2) and MPEG-3 (.mp3)
- Creates target files of linear (PCM), MPEG-2, and apt-X™ that are compatible with XStudio, DCS and Maestro systems
- Batch convert files quickly and easily
- Automatic File Name Conversion for voice tracks
- Editing of Audio Length, Aux Mark, and other Cart Information through a unique [Cart Editor](#)
- Allows batch conversion to specific start and stop dates
- Create multi-cut carts quickly
- Requires only a standard Windows based PC with a sound card

2.2 What's New in this Release

This section documents changes and enhancements to XChange by version number.

Version 1.0.0.45 - 03/11/2012

1. **Fix.** Time values for audio files (carts) longer than 60 minutes are now displayed correctly in the user interface.

Version 1.0.0.43 - 12/23/2010

1. **Enhancement.** The sample rate of the target .DAF file (PCM and MPEG2) can be controlled by a preference setting. When enabled, you can target converted audio to a sample rate of 32kHz, 44.1kHz or 48kHz.
2. **Enhancement.** The XChange installation now includes a PDF manual and a separate HTML help file available as program shortcuts.

Version 1.0.0.41 - 11/23/2007

1. **Fix.** Changes have been made to better reflect progress of a file conversion during the last phase of the conversion. When completed, the progress bar now displays "Complete 100%".

Version 1.0.0.39 - 11/19/2007

1. **Fix.** Maestro ACP v3.3.6 exhibits more aggressive behavior when ingesting audio than previous versions of ACP, attempting to convert the file as soon as it appears in the audio folder. This caused errors, as XChange had not yet completed writing the audio file to the folder in some cases and the ACP server would not import the file, complaining that it could not open the file header. XChange now creates a temporary file with an extension .dxa when writing the data to the ACP audio folder. When the file is complete, it is renamed to .dff for ACP to process.

Version 1.0.0.37 - 11/16/2007

1. **Fix.** XChange has been updated to meet the file import requirements of Maestro v3.3 and above. The most significant change is that XChange now writes a version 1.3 DAF file header. If you are using an older version of DCS that supports only DAF header version 1.2, you will need to update the software to version 1.6Z1 in order to use this version of XChange.
2. **Change.** Handling of setting the AuxMark has been improved to be more precise.

Version 1.0.0.34 - 01/20/2006

1. **Change.** The method of saving the header of a multi-cut cart has been revised to ensure that the file size is always correct and that an ACP server will not try to process the file until the multi-cut cart creation process is complete.
2. **Fix.** If the input file was monaural and the output file was to be MPEG, the encoder would fail and conversion would not be completed. Note: QDesign does not support mono bit rates greater than 192kbs.
3. **Fix.** Occasionally, PCM output files would play back with a short bit of "noise" or "static" at the very end of the audio file.

Version 1.0.0.9 - 03/04/2005

1. **Fix.** The volume control in the Cart Editor was inactive. This has been corrected.
2. **Change.** At program start, any leftover temporary files are detected and removed.

Version 1.0.07 - 02/18/2005

1. **Change.** The ability to select the owner node for the converted audio file has been added to support distributed audio systems. The owner node value is set in [Preferences](#).

Version 1.0.0.1 - 11/18/2004

The initial public release of XChange.

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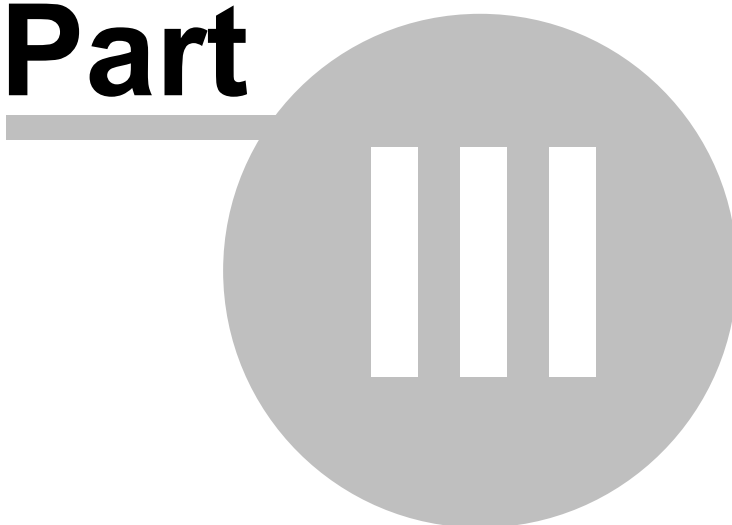
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Installation

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3.1 System Requirements

XChange requires a PC that supports Microsoft Windows™ 98, ME, NT4 WorkStation, 2000 Pro, XP Pro, Vista or Windows 7 along with the following:

- 32 MB RAM (Windows 98, ME), 64 MB RAM (NT, Windows 2000), 128 MB RAM (Windows XP), 1GB RAM (Vista, Windows 7)
- At least 10 MB free disk space for this application only. Additional disk space is required for source and target audio files.
- An audio card supported by the operating system with WDM drivers (to audition audio and use audio editor)
- Compatible VGA, super VGA, XGA or 8514/A monitor, with adapter, running 800x600 minimum display resolution
- Microsoft mouse or compatible pointing device.
- A LAN card (NIC), known to be working (if you will be connecting to a LAN to access audio files).

3.2 Upgrading from Previous Versions

If you are upgrading from a beta or pre-release version of XChange, you should remove the old version of the software before installing this version.

If you are upgrading from a previous release version of XChange, simply run the new installation.

3.3 Installing, Updating or Removing XChange

The XChange installation program provides step-by-step instructions on every screen displayed during the installation. Follow the instructions on each screen to install XChange.

Before you install

1. Close all other programs, including any anti-virus programs.
2. If you are installing on Windows NT, Windows 2000, Windows XP, Windows Vista or Windows 7, log on to your computer with administrator privileges.

To install from a CD

1. Insert the CD into your CD-ROM drive. The installation program should start automatically. If it does not start, locate your CD-ROM drive in Windows Explorer and double-click on the **SETUP.EXE** program.
2. Follow the instructions on each screen to install the software.

To install XChange from a downloaded file

1. After you have downloaded the installation program to your computer, locate the setup program, **XChangeSetup.exe**, in the folder to which you downloaded the file. [**Double-click**] on the setup program to begin installation.
2. Follow the instructions on each screen to install the software.

Updating XChange

1. If you have downloaded or otherwise received a revision for XChange, the process for updating the software is virtually identical to the initial installation. However, the installation dialogs are a bit different. When you launch the setup program, you are be offered the opportunity to "**Modify**", "**Repair**" or "**Remove**" XChange.

Typically, you would use the "**Repair**" option, which does not change installed options but replaces the files that that need to be updated.

If you wish to add or remove a feature, use the "**Modify**" option.



You must have administrator privileges to perform an update when running on Windows NT, 2000 Pro, XP, Vista or Windows 7.

To Uninstall XChange



If you are using apt-X™ with XChange, you will need to remove the apt-X license before uninstalling the main application. Otherwise, you will not be able to re-use the license for apt-X.

To remove XChange from your PC, select the Control Panel applet Add/Remove Programs. Select XChange and click on the **[Remove]** button. Follow the prompts to uninstall the software.



Only files originally installed are removed. Event log files and your preferences files are not removed.

Configuration

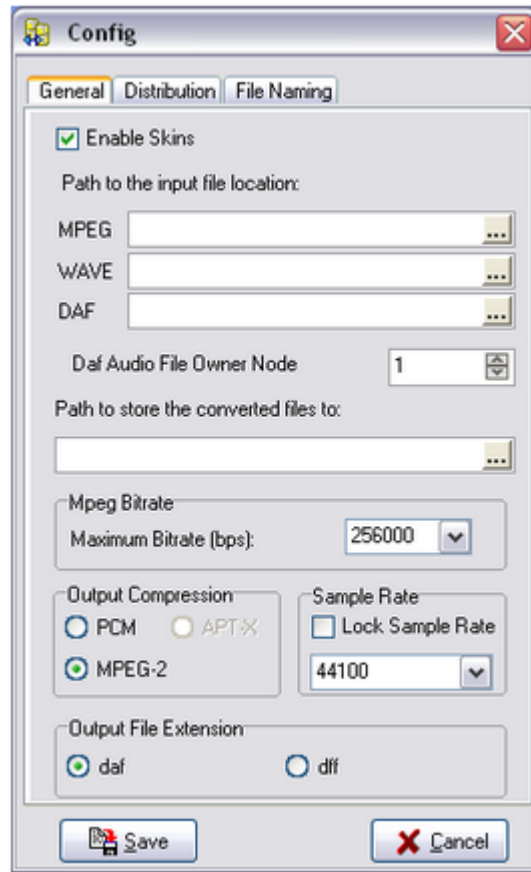
Part



Before you begin using XChange, you need to set up the program so it knows where to find source audio files that will be converted, among other things. To set up XChange, select the main menu item **Edit | Preferences**. A dialog will be displayed, containing a number of tabs and sections. The tabs group items that are related to one another.

4.1 General Settings

The General tab is where XChange required settings are located. It appears similar to the following:



Here is a description of the General tab's items and their meaning:

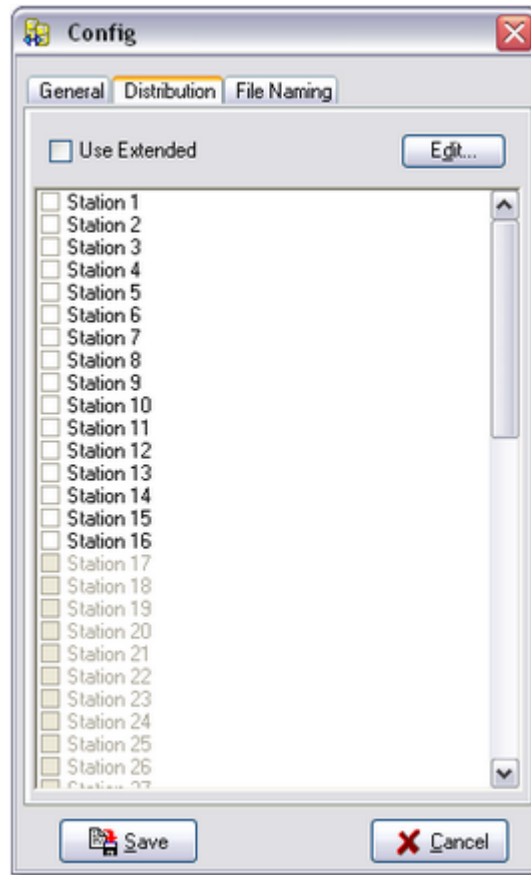
Item	Meaning
Path to Input Location	There is one field each to designate the folder locations that will contain the files you wish to convert from. The standard edition of XChange contains fields for the MPEG, WAVE and DAF files. Each field has an adjacent button that you can use to select the folder from available locations.
Path to Store Converted Files	The location where converted files will be saved. In an ACP environment, this would typically be the ACP audio

Item	Meaning
	folder (directory).
DAF Audio File Owner Node	The node number that represents the owner of the audio file. This is particularly important for distributed audio systems that do not use an ACP server. The owner node must correspond to the node number of the DCS or Maestro that will initially receive the converted file.
MPEG BitRate	This value is used only if you are converting source files to an MPEG target (converted) file. The value is the maximum bit rate you will allow. If the source file bit rate is higher than the selected bit rate, the bit rate will be converted down to the selected rate. If the bit rate of the source file is lower than the maximum you set here, it will be left unchanged. Select a value from the drop-down list.
Output Compression	You can select the type of .DAF file you wish to create in this section. Only output types supported by your PC will be enabled. In order to save .DAF files with either apt-X or MPEG encoding (compression), you must have the appropriate encoder installed on your PC. See the section on optional encoders for more details on acquiring and installing these items.
Sample Rate	Check the item Lock Sample Rate to force output file (.DAF, .DFF) file to the sample rate selected in the list box. This option applies to PCM and MPEG2 output files only. Available target sample rates are 32kHz, 44.1kHz and 48kHz.
Output File Extension	If you are using an ACP server and want the converted audio files to be placed into the system's inventory, select the "DFF" option. Otherwise, the converted files will be saved as "DAF" files (.DAF).

4.2 Audio Distribution

In the audio distribution section, you can declare whether you are using a standard 16-node (work station) distribution system for your DCS or Maestro system, or if you are using 64-node (extended) distribution. You can also edit the text description for each work station (node) to be more meaningful.

The Distribution tab appears similar to:



The "**Use Extended**" check box should be checked **ONLY** if you are using a Maestro system, all work stations in the system are Maestro's and you are using more than 16 work stations. For DCS, leave this item unchecked.

Each of the work stations listed can be edited for more meaningful text. To edit the description, select one of the stations in the list and click on the [**Edit**] button. A dialog is displayed, allowing you to edit the name of the work station.

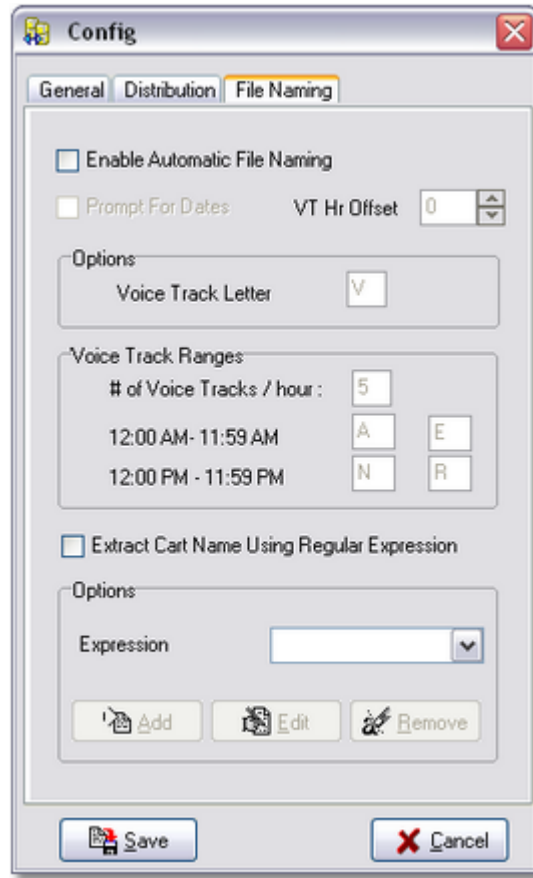


The work stations are listed in order of node number from your DCS or Maestro configuration, starting with node 1. You can look at your DCS or Maestro configuration to match up and use the same names, if desired.

4.3 File Naming

The file naming section is used to set up special file-naming conventions that XChange can utilize to automatically create cart numbers from source audio files. XChange offers the unique ability to name files automatically to conform to the standard convention for voice track audio cart naming schemes. If the incoming file supplies some needed information about the hour the voice track should run in and the interval during that hour that the track occurs, then XChange can properly name that file. See the section on [Source File Naming for Voice Tracks](#) for details on naming the incoming files.

The tab contents appear similar to:



Here is a description of the File Naming tab's items and their meaning:

Item	Meaning
Enable Automatic File Naming	<p>Check this box if you intend to have your voice track file name automatically converted. If selected the output file name will be as follows: SDHU.daf or SDHU.dff.</p> <p>S = A unique station identifier</p> <p>D = The day of the week that the voice track will be run (1= Monday, 7 = Sunday)</p>

Item	Meaning
	<p>H = The Hour that the voice track occurs in hex (C = Midnight, 1 = 1:00)</p> <p>U = A unique identifier for the voice track in the hour</p>
Prompt for Dates	Check this box if you wish for all the files to use the same date and you would like to be prompted to select that date. When the conversion is run a dialog will then appear that allows the user to select a date that will be applied to all carts being converted that one time.
Voice Track Letter	The letter that you would like all voice tracks to start with.
# of Voice Tracks/ hour	Allows you to specify the number of voice tracks possible in a single hour. Currently this value must be between 5 and 9 inclusive.
12:00 AM - 11:59 AM	Here one can specify the range of characters associated with this interval by changing the character in the first box. This will then update the second box to reflect the last character corresponding to the number of voice tracks per hour that was previously entered.
12:00 PM - 11:59 PM	As above, except as applied to this time period.

Source File Naming for Voice Tracks

Incoming audio files that will be converted to voice tracks using XChange's automatic naming feature must use the following naming format:

hr<h>vt<v>Rest_Of_FileName.mp3

where:

<h> = The hour that the voice track is to occur at. This is a digit from 1 through to 24, where 1 corresponds to Midnight, and 11:00PM corresponds to 23.

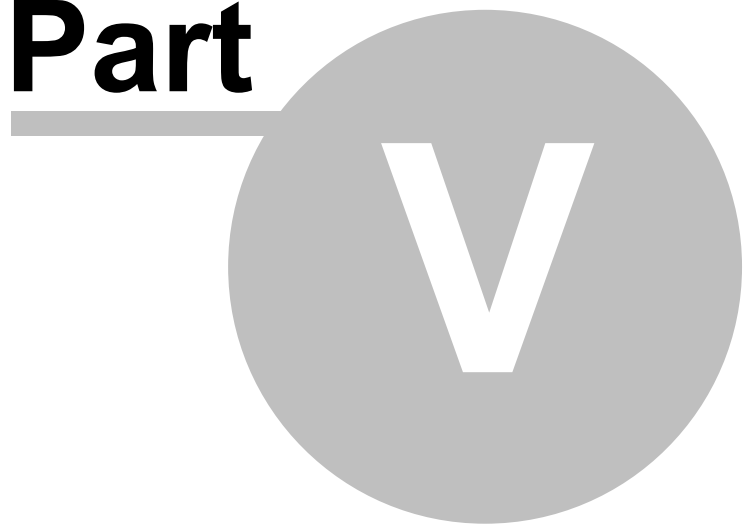
<v> = The location of the voice track within that hour. An integer between 1 and the max number of voice tracks.



Do not use the angle brackets in the file name - they are shown for descriptive purposes only.

Using XChange

Part

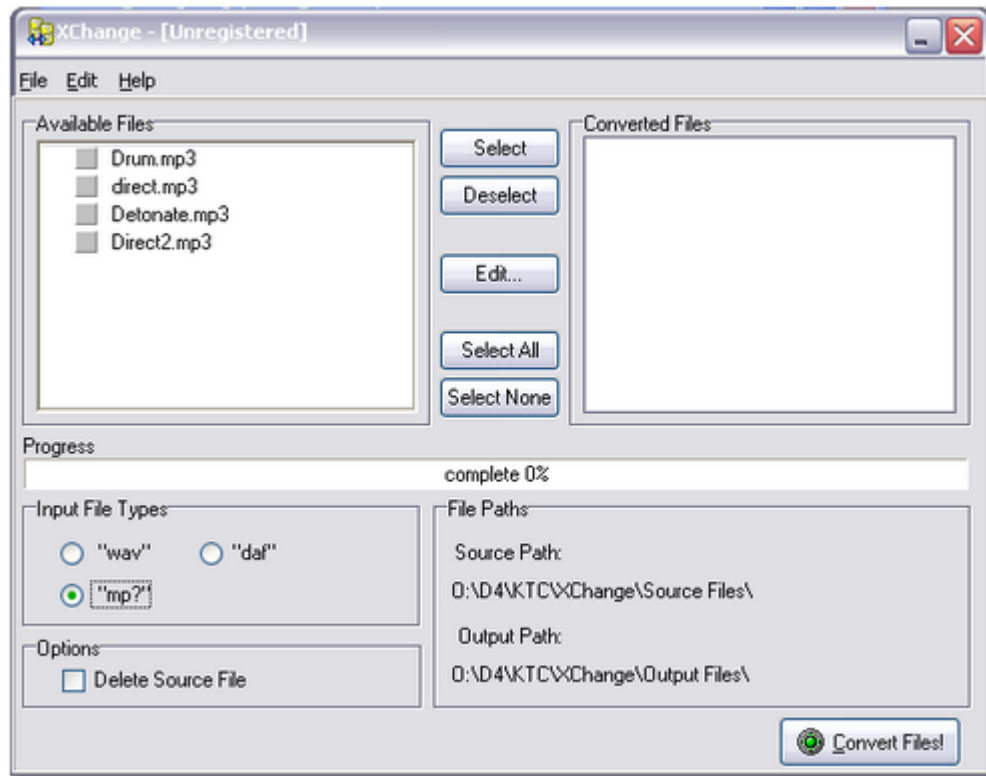


Using XChange is simple - just launch the application from your Start Menu. Normally, XChange is located at **Start Menu | Programs | XChange**. When starting up, XChange will scan the audio paths defined in [Preferences](#) and build a list of files available for conversion. There may be some delay during this process, depending on the number of source audio files present.



Be sure you have set up XChange properly before trying to convert files for the first time. Setup is done via the [Preferences](#) dialog, accessed from the main menu item **Edit | Preferences**.

When XChange has completed its start-up process, you will see a display similar to the following:



The main display is where you select files for conversion, initiate the conversion process and get status messages relating to the progress of a conversion. There are several sections in main display. Click on section of the display for more information on its meaning and usage.

Here's a more detailed description of each section:

Section	Meaning / Usage
Available Files	This section presents a list of available files for converting. This lists the files in your located in your "Source Path" which adhere to the selected "Input File Type." You can select a file for conversion by double-clicking the file name in the list box or by highlighting the item and clicking the [Select] button to the right of the box. To deselect an item either double click the item

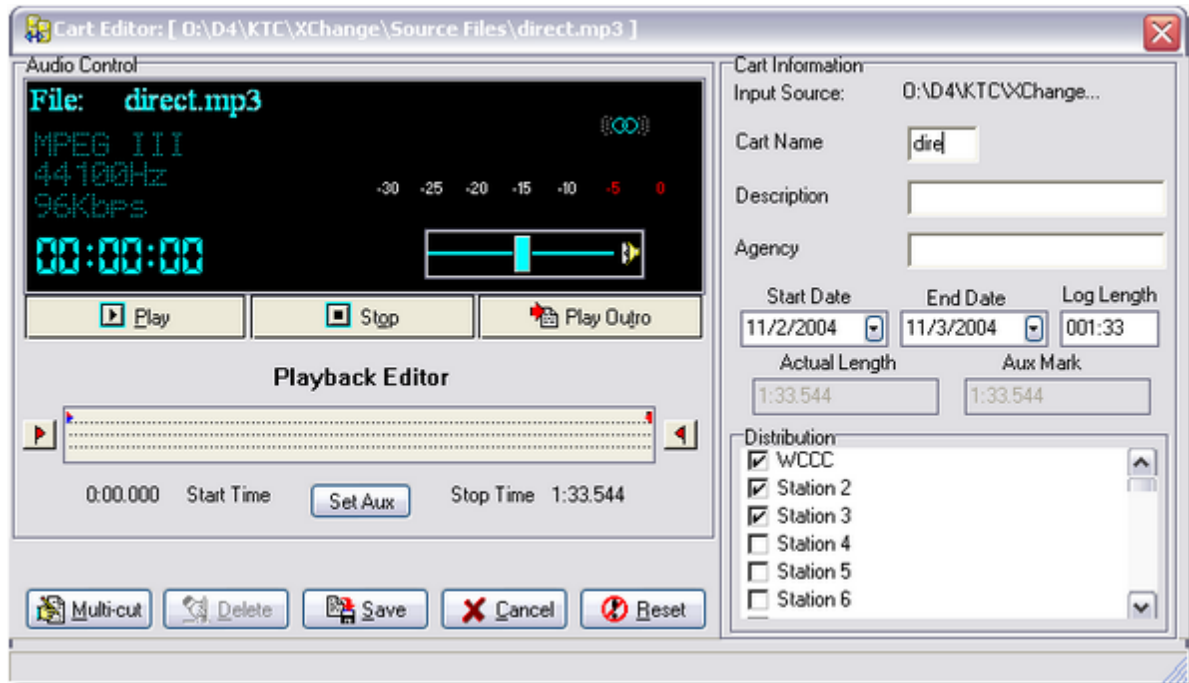
Section	Meaning / Usage
	<p>again or highlight the item and click the [Deselect] button. When an item is selected a check mark will appear to the left of the item name. Only those items with check marks will be converted when the [Convert Files] button is pressed.</p> <p>At times a little red flag may also appear to the left of an item name. When this occurs the user has chosen to manually edit some of the audio file information prior to conversion. One can open the Cart Editor by double-clicking on an item name or by highlighting the item and clicking the [Edit] button to the right of the box. See the Using the Cart Editor section for more info on editing carts.</p> <p>A [Right-Click] on this area pops up a menu for refreshing the box, selecting all of the audio files listed or removing all selections.</p>
Select Button	Use the [Select] button to mark highlighted items in the Available Files list for conversion.
Deselect Button	Use the [Deselect] button to uncheck a highlighted item in the Available files list. Unchecked items are not converted.
Edit Button	Use the [Edit] button to launch the Cart Editor dialog, which displays information about the selected source audio file, along with providing the means to edit information for the converted audio item. See the section on Using the Cart Editor for more information.
Select All Button	Use the [Select All] button to check all items displayed in the Available Files list for conversion.
Select None Button	Use the [Select None] button to uncheck all items displayed in the Available Files list, effectively clearing the list of items to be converted.
Converted Files Window	<p>This box displays the output from the conversion process. If a file name appears, then that file has been saved to the specified "Output Path" on your machine. If you are converting a multi-cut cart both the multi-cut cart and its cuts will be displayed here. In the event that an error has occurred during the conversion process, an error message will be displayed instead of the file name. If the error reports information about the Sample Rate, Bit Rate or Channels, then the error is due to an unsupported sample rate or bit rate. For any other error make sure that you have the proper read/write permissions for the input/output paths.</p>

Section	Meaning / Usage
	If this box gets too congested there is a [Right-Click] option to clear the contents of the box.
Progress Bar	Displays the progress for each stage of the conversion process. The current stage will appear in the center of the progress bar along with its percentage of completion.
Delete Source File Option	If the "Delete Source Wave" option is selected then the source file will be deleted only after successful conversion. NOTE: If selected, the cart information will also be deleted after successful conversion. So, if you have saved any edits using the Cart Editor, they will be lost.
Source Path Display	This is the path specified in the configuration settings to the location of the directory to scan for audio files. This can only be changed via the Edit Preferences menu.
Output Path Display	The location where the converted files should be stored. This can only be changed via the Edit Preferences menu.
Convert Files! Button	Clicking on the [Convert Files!] button begins the conversion process. While converting, the text on the button will change to "Stop Convert" which, when clicked, will abort the conversion process at the next available time.

5.1 Using the Cart Editor

XChange's Cart Editor simplifies the task of editing cart information for an audio file ready to be imported into an XStudio, DCS™ or Maestro™ system. The editor allows both playback of the audio file and editing of the audio file.

The Cart Editor display looks similar to the following:



The audio control section of the display provides several bits of information about the selected source audio file. Click on the items in the display for more information.

Cart Editor Playback Transport Usage

Playing Audio

To play the selected audio file, click on the **[Play]** button. The file will start playing from the current location of the audio position marker on the Playback Editor. See the section on the Playback Editor for more information on adjusting the current audio position.

Stopping Audio

If no audio is playing, the **[Stop]** button is grayed out and disabled. If audio is currently playing, the **[Stop]** button is enabled, allowing the user to stop playback at any time. Once stopped the current audio position should revert to the current start position for the audio, and stop playing.

Play Outro

The **[Play Outro]** button plays only the last 5 seconds of audio. This way the user can easily set the aux mark, without having to listen to the entire track of audio each time.

Using the Playback Editor

Included within the Audio Control section of the Cart Editor are features to edit the start, stop and AUX marks for the converted audio file. The design is intuitive and easy use. There are several graphic items and buttons that facilitate setting the start, stop and AUX marks:

Item	Usage
Start Position Red Marker	Indicates the start of the audio for playback and the location where the conversion of the audio file should begin.
Stop Position Red Marker	Indicates the location at which both playback and conversion of audio should end.
Aux Mark Black Marker	Indicates the location where the AUX Mark will appear in the converted audio file.
Current Audio Position Blue Marker	Indicates the current location of file playback.
Set Start Position Button	Sets the start position marker to the current audio position.
Set Stop Position Button	Sets the stop position marker to the current audio position.
Set Aux Button	Sets the aux mark for the converted audio file to the current audio position.
Start Time Field	Indicates the time in the original audio file where audio conversion should begin.
Stop Time Field	Indicates the time in the original audio file where audio conversion should end.

Setting the AUX Mark

There are several ways to set the aux mark for the audio file. The first of which is to use the **[Set Aux]** button at any time while the audio is playing. By clicking this button the user is able to set the aux mark to the current audio position. Because aux marks usually occur near the end of audio playback, the **[Set Aux]** button is usually used in conjunction with the **[Play Outro]** button. Once the aux mark is set, the "Aux Mark" area, under the Cart Information heading, will be updated to represent the actual time in the converted audio file at which the aux mark will occur.

Dragging the black colored pin in the Playback Editor panel can also set the aux mark. The user can hover above this pin click and then drag it anywhere in between the current start and stop positions.

Setting the Start Position

By setting the start position the user is setting the location at which the converted audio file should begin. Again there are several ways to set the start position. The easiest way is to click and drag the

red start position marker. When moved the "Start Time" label below the Playback Editor will update and so will the "Actual Length" field in the Cart Information panel. Clicking the button to the left of the playback track can also set the start position. This will set the start position to the current location of the current audio position marker.



If ever the start position is set to a value greater than the current audio position, and/or aux mark, the current audio position mark, and/or aux mark, will be moved to the location of the new start position.

Setting the Stop Position

By setting the stop position the user is setting the location at which the converted audio file should end. Again there are several ways to set the stop position. The easiest way is to click and drag the red stop position marker. When moved the "Stop Time" label below the Playback Editor will update and so will the "Actual Length" field in the Cart Information panel. Clicking the button to the right of the playback track can also set the stop position. This will set the stop position to the current location of the current audio position marker.



If ever the stop position mark is set to a value less than the current audio position, and/or aux mark, the current audio position mark, and/or aux mark, will be moved to the location of the new stop position.

Setting the Current Audio Position

The blue marker that appears in the playback track denotes the current audio position. This marker will move with time, as the audio is played, to track the position of the audio being played. If playing, then upon reaching the end of audio, or the stop position, the current audio position will be reset to the start position. However, at anytime while audio is playing, or not, the user can drag this marker around to any location within the boundaries of the start and end markers.

Cart Information Panel

The Cart Information Panel allows the user to edit the output file name (if not using File Name Conversion), description, agency, valid dates, and distribution for the converted audio cart.

Item	Usage
Cart Name (Cart Number)	Defaults to the first 4 characters of the file name. Can be set to any alphanumeric string consisting of exactly 4 alphanumeric characters.
Cut	Only visible if using multi-cut carts. Displays the current cut that is being edited.
Description	Enter a description for this cart here. The maximum number of characters is 25.
Agency	Enter the agency associated with the cart. The maximum number of characters is 15.

Item	Usage
Start Date	Used to select a start date for this cart. A drop-down calendar is available for date selection.
End Date	Used to select an end date for this cart. A drop-down calendar is available for date selection.
Log Length	The value that should appear in the log length field for this cart. Automatically updates to the Actual length when the Actual Length is changed, but can also be changed manually.
Actual Length	Specifies the actual running of the converted audio file in: min:sec.ms. This is automatically set, based on length of source audio and any editing of start or end positions in the audio.
Aux Mark	Specifies the location of the aux mark in the converted audio file in: min:sec.ms.
Distribution	Specifies the distribution for this cart. The default work stations that are to receive the converted cart are set in Preferences , but can be changed here. Note: When using multi-cut carts changing the distribution for one cut affects all cuts.

Main Panel Buttons

There is a group of buttons on the main panel used to create multi-cut carts, save cart edit information, and reset the information.

Button	Usage
Create Multi-cut Cart / Add Cut	Use this to create a multi-cut cart. The current information automatically gets set to be the information for the first cut. After the cart has been converted to multi-cut this button then changes to "Add Cut" which allows the user to add a new cut to this cart.
Save	Saves the current state of the cart and closes the dialog. The next time the Cart Editor for this cart is opened the changes will be apparent. If a file with same name as the cart name already exists in your output path, you will be prompted to overwrite that file. If yes is selected you will no longer be prompted for that cart.
Cancel	Discards the changes since the last save and closes the dialog.

Button	Usage
Reset	Completely resets the cart information to its original state, including resetting a multi-cut cart to an original single audio cart.

Creating Multi-Cut Carts

XChange's Cart Editor allows the user to create multi-cut carts, in much the same way as any cart would be edited. Each multi-cut cart can hold up to 99 individual cuts. To create a multi-cut cart simply click the [**Create Multicut Cart**] button located at the bottom left-hand side of the Cart Editor.



The Cart Name cannot be changed after a multi-cut cart has been created. Be aware that once a multi-cut cart is created it cannot be undone without re-setting the entire cart information.

You now have a multi-cut cart with the Cart Name specified before [**Create Multicut Cart**] was pressed. Also, a box showing the current cut you are editing becomes visible to the right of the Cart Name. Now you can set up all the information for this cut, including editing the audio positions.

When a new cut is needed, click the [**Add Cut**] button to insert a new cut for editing.

At any time, you can select the cut for editing out of the "Cut" drop down list. All the information for the current cut will be temporarily saved and the information for the cut selected will be loaded into the editor.

When finished with the entire cart, click on the [**Save**] button.



Permanent changes take affect only after the [**Save**] button is clicked.

TroubleShooting

Part



XChange has been designed to be as trouble-free as possible and has been thoroughly tested. However, not every usage scenario can be anticipated. This section is intended as a starting point diagnosing and solving problems, but should not be viewed as an all-encompassing source of problem resolution.

If the difficulty you're experiencing is not covered here, contact the dealer who provided you with XChange first. Alternatively, you can contact dcsTools.com - see the topic on [Technical Support](#).

Application Bugs or Errors

Bugs and errors generally fall into one of two categories - a bug, which is the application not doing something as you might have predicted it would, or; an error, which is the failure of the application to run or perform a specific task altogether.

If you find a bug, report it. Every effort is made to ensure XChange performs as expected, but there may be circumstances that were not predicted in the development of the software. See the section on [Technical Support](#) for information on reporting a bug.

If you encounter an error, you will get an error message indicating a severe failure and XChange may terminate. Provisions are made to "catch" such errors and log the error information to a file in the XChange application directory. The filename is **XChange.Elf**. Again, report any application errors you encounter. You may be asked to send the appropriate log file for analysis.

6.1 Trouble with saving files

If XChange is unable to save converted files, the most likely causes of the problem are:

1. There is not enough available disk space on the target drive.
2. The target drive (or path to store converted files to) does not exist.
3. The target drive or folder is not accessible by the current user – this most often happens when a user does not have the correct privileges for a server location where the audio files are to be stored.
4. The target drive is a server and there is no drive mapping to the server.

Consult your system administrator if you believe the problem is related to your user privileges or drive mapping.

Contacting dcsTools.com

Part



If you need to contact dcsTools.com, you can do so using one of the following methods. We are here to help, so do not hesitate to communicate with us when needed.

Mailing Address

C-R Media
8494 Saratoga Lane
Eden Prairie, MN 55347
USA

Telephone Information

Sales and Technical Support can be reached from 9:00 AM to 5:00 PM, U.S Central Time.

Voice: 952-949-9450

FAX: 952-949-9448

Email Information

To contact us via email, use our [on-line contact form](#). If you wish to use a standard email client, send correspondence to: rich@c-rmedia.com.

Technical Support

To contact technical support for our products, use the telephone numbers or email information provided above. You can also send an [on-line product-specific email](#).

Web Site

Visit our web site for information on product updates and other products we offer.

<http://www.dcsTools.com>

Appendices

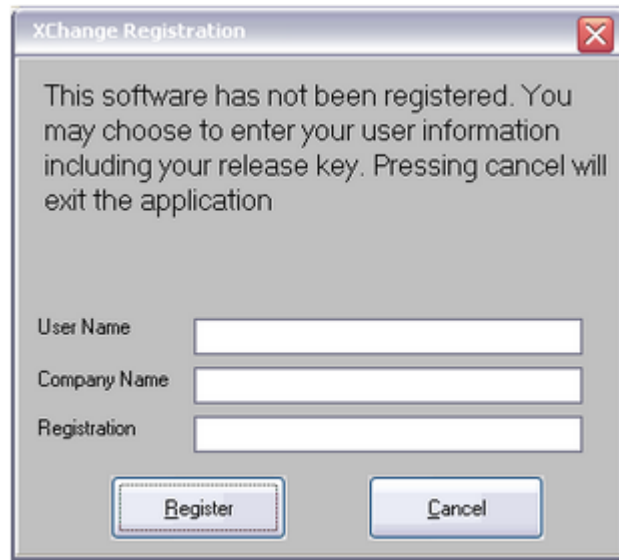
Part  **VIII**

8.1 Appendix A - Registration

XChange requires a valid registration code to enable full use of the product. If you have purchased XChange, you should have received a registration code or instructions on how to obtain your registration code with your installation materials. The registration code contains the product serial number and is unique to each PC on which XChange is installed. Depending on whether or not you have additional encoding options installed, you may need to register the options as well.

XChange Application Registration

Enter registration information by selecting Help | Register from the main menu. You'll be presented with a dialog similar to the following:

A screenshot of the XChange Registration dialog box. The title bar reads "XChange Registration" with a close button (X) on the right. The main text says: "This software has not been registered. You may choose to enter your user information including your release key. Pressing cancel will exit the application". Below the text are three input fields: "User Name", "Company Name", and "Registration". At the bottom are two buttons: "Register" and "Cancel".

Fill in the User Name and Company Name fields as desired, and then enter the Release Key, exactly as it was supplied to you. Click on the **[Register]** button to save your registration information.



If you received your registration release key electronically, you can copy it from the source document and paste it into the Release Key field. Copy the key information in the source document, select the Release Key field in the XChange Registration dialog, and use **[Ctrl-V]** to paste the key.

apt-X™ Encoder Registration

If you have the apt-X encoder software installed with a product, you must register this software module separately. The encoder software is machine-specific. This software can only be registered **after** it's installed on the PC.

When first installed, the apt-X encoder will pop up a trial run dialog when the host application is run. The dialog includes the option to register the software. The dialog will be similar in appearance to the sample below:



To get the registration process started, copy both the **MID** and **Site Code** information displayed on the trial dialog. You can use a mouse to select and copy each of the two codes to the Windows clipboard, if you wish, to avoid handwriting the information.

Both the **MID** and **Site Code** need to be sent to your supplier so the registration unlock code can be generated.



The apt-X registration dialog normally closes after several seconds if no action is taken by the user. To keep the dialog from closing while you copy down the needed information, select the "**Unlock Application**" radio button, which prevents the dialog from closing.

Soft apt-X™ Registration Step-by-Step

1. To register, select the "**Unlock Application**" radio button when the apt-X registration dialog is displayed. This stops the dialog from disappearing after a few seconds, giving you the time to write down both the **MID Code** and the **Site Code**, which appear across the top of the display.
2. When you have written down both codes, select the "**Enter Application**" radio button and click on the [**Continue**] button.
3. E-mail the Mid Code and Site Code information you've written down to your supplier, or alternatively, use our [on-line product-specific contact form](#). To better identify your request, write "**Soft apt-X Registration**" in the Subject line of your e-mail.
4. You will receive by return e-mail the necessary **Init Code** to register the apt-X software. You will also receive a **Remove Code**, which may be needed at a later time. Be sure to keep both of these

codes for future use.

5. When you receive the **Init Code**, launch the application that uses the apt-X software. The apt-X dialog will again appear. Select the “**Unlock Application**” radio button and enter the **Init Code** you received. Click on the [Continue] button. The registration information is recorded and the apt-X software is now registered.



If you decide to move the software that uses apt-X and the apt-X encoder software to another machine or substantial changes occur on the PC running with the apt-X software, the apt-X registration will have to be transferred or updated. In order to do so, you will need the **Remove Code**. Be sure you have saved both the **Init Code** and the **Remove Code** in a safe place!

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