WaveCart Pro

Installation & Operations Manual

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Introduction

WaveCart is the original on-screen, Cart Machine in use by thousands of broadcasters around the World and was even used at the Atlanta Olympic Games!

WaveCart uses a standard PC and sound-card to play back multiple audio files, optionally to different audio outputs and can automatically sequence from one deck to another.

Each of the decks has a label clearly showing information about the audio file being played and there are timers showing Elapsed, Remaining and even an Intro countdown.

As well as up to 10 on-screen decks, an additional 24 HotKeys are available for frequently used audio files.

Individual play decks or audio files can be **triggered** using the BSI Trigger Kit (or other optional hardware devices) making it easy to interface to satellite receivers, mixing consoles or button boxes etc. Up to 24 incoming triggers are available.

Information about how to get started with WaveCart is explained in the QuickStart section.

For any questions of a technical nature related to WaveCart, please refer to http://support.bsiusa.com

Getting Started

Consult the following sections for information on installation, configuring, using and getting the most out of WaveCart.

- Installation
- Starting the program
- QuickStart Guide
- Adding New Files
- Main Screen
- Security Options
- Event Logs
- Registration & Validation
- Support

Installing WaveCart

System Requirements

The computer system needed to run WaveCart very much depends on exactly what you want to do. WaveCart will run on a wide range of computers, but some features will require more than a bare-bones minimum.

Bare-bones Minimum

Intel Core 2 Duo, 2.4Ghz Processor (we do not recommend AMD, Pentium or Celeron processors)
Microsoft Windows XP Professional (we do not recommend using any operating system designed for Servers as these are not optimized for multimedia use)
2GB memory
USB Port (for Hardware Key)
At least one Sound Card, with Wave or WDM Drivers on Windows XP, or WDM drivers on Windows 7+

Recommended Configuration

Intel Core i3, 2.4Ghz or higher
Windows Windows 7 Professional 32bit or 64bit or Windows 8/8.1 32bit or 64bit
4GB RAM for 32bit operating systems, 8GB RAM for 64bit operating systems
USB Port (for Hardware Key)
2 x SATA Hard Drives (one for Windows, one for audio files)
Professional Sound Card with multiple audio streams with WDM Drivers

Optimization

Most off-the-shelf PCs are designed and configured for home or small office use. The demands of a multimedia computer running 24/7 are very different.

While WaveCart will run with either configuration, for maximum performance and long-term stability we highly recommend purchasing a correctly configured, custom multimedia PC directly from BSI.

Our technical support department can assist you with any software or hardware purchased directly from BSI, but we cannot guarantee to assist you configuring computers purchased elsewhere and / or may make a charge for doing so.

If you plan to supply and configure your own PC, we highly recommend obtaining a copy of the Microsoft Resource Kit and ensuring that you have optimized your computer for performance rather than appearance.

Installation

To Install WaveCart from the BSI Install CD, insert the CD into your CD-ROM drive.

If you have disabled the autorun feature of your CD-ROM, run the **setup.exe** file on the CD.

Use the drop-down box to select **WaveCart** and then click the **Install** button

Follow the on-screen prompts, and selecting **Full** if you are installing for the first time, or **Upgrade** to preserve settings from a previous installation of WaveCart.

IMPORTANT NOTE:

WaveCart 5.0 requires a Hardware Key to validate the program. Please ensure that you have installed the **Sentinel Driver** before trying to register the program. You'll find a copy on the BSI Install CD and on the drivers page of our Web Site.

Uninstalling

To Uninstall WaveCart

1. Click the Start button.
2. Select Control Panel.
3. Double-click Add/Remove Programs.
4. Click Change or Remove Programs.
5. Then select WaveCart from the list of programs that can be automatically removed.
6. Click the Remove button to uninstall WaveCart.

WaveCart's uninstall program will have deleted any files it created that are no longer is use by any other programs still installed on your PC.

It will not delete any user generated files, including Audio Files, Events Logs, Stacks etc.

QuickStart

Starting WaveCart

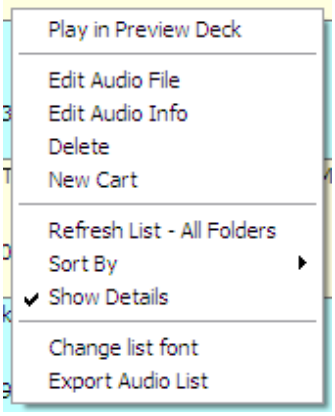
To start WaveCart, click the WaveCart icon found in the **Start** menu, in **Programs** > **Broadcast Software**.

You can also double-click the Desktop Icon. \

WaveCart installs some sample audio files* which by default are installed in **c:\bsi32\audio**.

You'll see the sample audio files in the **Audio List** on the right-hand side of WaveCart's main window.

If you have difficulty reading the details, **Right-Click** and select **Change list font** to select a larger font.

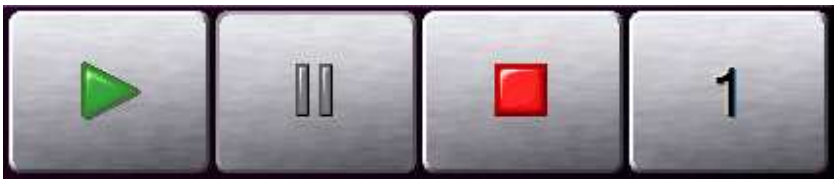


To view more than just the Artist and Title, select Show Details from the same menu. You'll then be able to see more information about the audio file such as OutCue, Intro, Length and Start and End Dates.

* To reduce size, the supplied sample audio files are 16-bit, 22Khz, Mono. When you add your own audio files, we suggest using 16-bit, 44.1Khz, Stereo files (linear PCM .wav) although WaveCart will also play MP3 and MPEG Layer 2 files (if your audio card supports MPEG Layer 2 playback, or if you have a suitable audio codec).

To load audio files into the play decks, **click** the audio file and then the numbered button of the deck you wish to load. (You can also **drag and drop** the audio file into the play deck too).

The control buttons will no longer be grayed out and you can **Play**, **Pause,** or **Eject** the audio file by clicking the relevant buttons.



When a file is playing, the eject button is replaced by a Stop button.

Adding New Files

As previously mentioned, sample audio files are installed in **c:\bsi32\audio** and any additional files saved into the same folder will appear in the **Audio List**.

We recommend using a separate hard drive for your audio files and it's easy to configure WaveCart to monitor additional folders for new audio files using the companion **SoundHound** utility. The utility constantly monitors selected folders for new or modified audio files and keeps WaveCart's **Audio List** up-to-date.

SoundHound is usually automatically launched when WaveCart starts and appears as a pair of binoculars in the System Tray. Double-click the icon to view SoundHound.

From the Folders tab click the Add a folder icon and browse to the folder you want to add. We recommend using up to 8 folders and that all folders should be on your local hard drive. While there are no physical limitations in WaveCart that prevent you doing otherwise, we are unable to support any issues arising out of your failure to adhere to our recommendations.

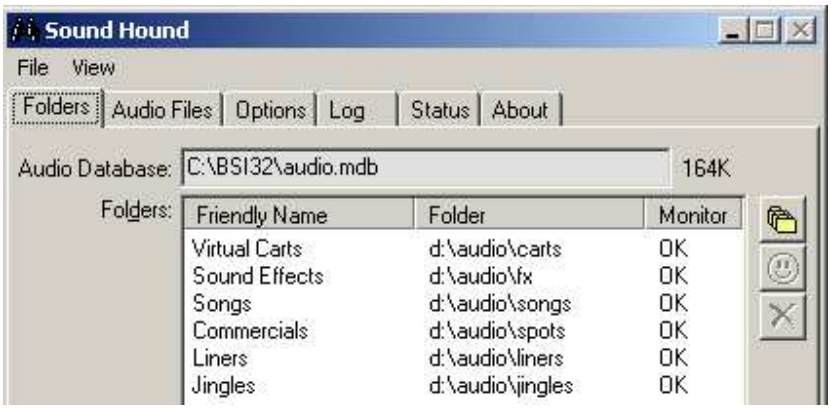
Rather than reference different folders by their actual paths, you can give each path a friendly name (for example, Songs, Spots, Sound Effects, etc.) and tell WaveCart to display the friendly name instead (in the Program Options).

When you no longer want to monitor a folder, highlight the folder you want to remove and click the **Remove a folder** icon.

There are two diagnostic functions on the **Folders** tab which are useful when optimizing or trouble-shooting your system.

Firstly, the location and size of the **Audio Database** are easily obtained from this screen. Over time, the database will increase and should be deleted (with WaveCart shut down). It will be automatically rebuilt once WaveCart is restarted.

Secondly, the **Monitor** column indicates whether or not there's a problem monitoring a particular folder. If all is well, you'll see an **OK** in this column.



NOTE: WaveCart has been designed to work optimally with the number of files most stations schedule, between 2,500 and 3,500. We do not recommend using more than 5,000 files (the number of songs you can comfortably store on a single 250 GB hard drive) as performance will reduce after that point due, in part to the larger database.

Main Screen

WaveCart's main screen displays up to 10 Play Decks and the Audio List. Use the Window > Optimize Display menu option to fit the maximum number of decks on screen.

The left-hand scroll bar can be used to scroll the decks up and down if your display will not accommodate all ten decks on screen at the same time.

The right-hand scroll bar is used to navigate through the list of audio files.

Below the **Audio List** is the **Pass-Through Mute** button (this button can be hidden, so if you don't see it, go to the Window menu and choose Display Pass-Through Control). This button mutes or un-mutes a secondary source of audio input into your audio card's line in, and output through its line out (hence pass-through). Right-clicking on the button will lock the current muted/unmuted state so that the auto-mute feature (if enabled) won't change the pass-through mode if you don't want it to.

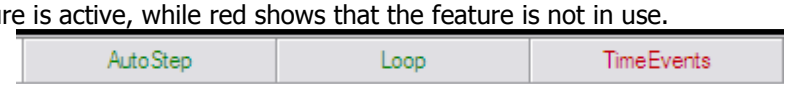
The Status Bar at the bottom of the user interface contains 10 deck position indicators and buttons for **AutoStep**, **Loop**, and **TimeEvents**.

AutoStep & Loop

The AutoStep feature allows play decks to sequence automatically. This is useful for segueing songs automatically, or running a spot break.

Loop allows play back to continuously sequence through the decks (this relies on the Program Option to reload a deck once playback has finished). This is especially useful where virtual carts are used and can form a rudimentary automation or sustaining service.

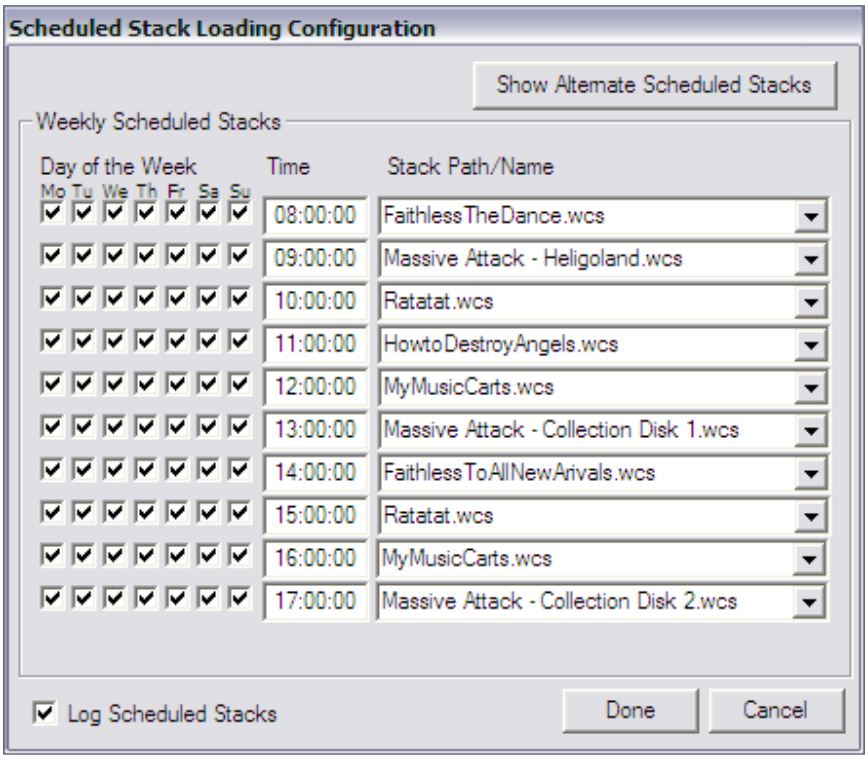
The **AutoStep** and **Loop** indicators can also be used to toggle each option on and off. Green indicates the feature is active, while red shows that the feature is not in use.



TimeEvents

The **TimeEvents** option enables/disables the **Scheduled Stacks** feature, which allows you to load pre-saved **Stacks** at scheduled times throughout the day/week.

To display the **Scheduled Stacks**, go to the Edit menu and choose Scheduled Stack Setup. The window below will appear.



Scheduled Stack Setup is covered more in depth in the chapter titled *Scheduled Stacks*.

Level Meters

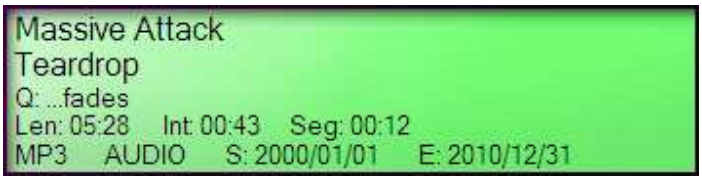
If the sound card you're using provides a Windows MME compliant Peak Meter control (such as our recommended AudioScience cards) then WaveCart will display the audio level on each deck's level meters. Most domestic and many semi-pro sound cards do not provide a Peak Meter control.

Timers

Each deck has three timers; an Intro countdown is displayed in blue, the Elapsed time is shown in green, and the Remaining time is shown in red.

Deck Label

When loaded, the play deck label will display the audio filename, Artist & Title information together with (depending on the display height chosen) the **OutCue**, **Length**, **Intro**, **Segue**, **File Type**, **Category**, **Start Date**, and **End Date.**



While playing, the label background turns **Green**.

When a deck is paused, it turns **Cyan** and (if **Attempt Segues** is checked) will automatically start when the deck before it reaches the Segue point.

While a deck is fading out (if the pertinent fade options have been configured), the label turns **Yellow**.

WaveCart will also look at the Start and End Date of an audio file and warn you that the audio file is not valid for play by turning the background color **Red**. WaveCart will not prevent you from playing the file though. The label will also be turned **Red** when an error situation occurs, such as attempting to load an audio file that can not be found.

Double-clicking on the deck label will perform a search of the currently displayed audio list for the currently loaded audio file. If a cart is loaded in the deck, double-clicking on the label will search for the cart file, but holding down the Shift key and double clicking will search for the current audio file from that cart.

Hovering the mouse cursor over the artist or title fields will pop-up a tool-tip with the file name of the currently loaded audio file

When a Cart is loaded, the Cart logo will be displayed in the upper right corner of the deck label. If that deck is not currently playing, single left-clicking on the icon will load the next item in the cart. Double left-clicking on the icon will reload the next-to-play event for non-randomized carts. Right clicking on the icon will open the currently loaded cart in the Cart Editor.

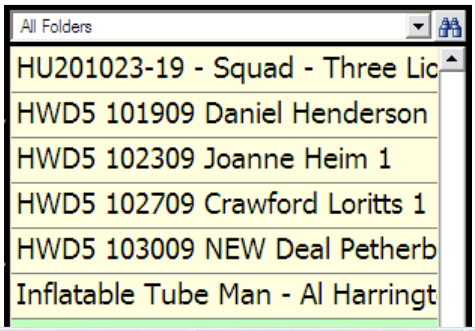
Hovering the mouse cursor over the cart icon will pop-up a tool-tip with the file name of the currently loaded cart.

Play Controls

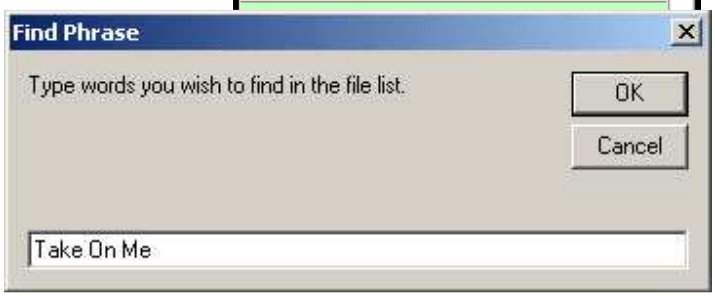
The touch-screen compatible **Play Controls** allow you to Play, Pause and Stop a file. (If the file is already stopped, you can Eject the deck).

Audio List Controls

By default, the **Audio List** will show the contents of all folders monitored by **SoundHound**. Using the drop down box you can limit the audio list display to any single folder that SoundHound is monitoring.



Using the Find button, you can search the Audio List for a particular phrase (for example, Artist or Title).



Status Bar

The **Status Bar** provides a handy visual reference to the play position of each of the decks. Clicking on any of the deck position indicators will cause the deck stack to scroll to that deck if your current WaveCart window isn't showing all decks on the screen at once.

Menus

File

- **Open Stack** – Opens a previously saved Stack of play decks
- **Save Stack** – Saves the currently loaded Stack of play decks
- **Save Stack As** – Allows you to save the current Stack of play decks with a different name
- **Exit** – Shuts down WaveCart

Edit

- **New Cart** – To create a new **Virtual Cart**, click this option
- **Edit Audio File** – Opens your (optional) Audio Editor application, such as Adobe Audition. (The path to this must be setup in the Program Options).
- **Edit Audio Info** – Launches the BSI Info Editor allowing you to store additional information inside the audio file itself
- **View Event Logs** – WaveCart will optionally keep track of every audio file played in either ASCII or Microsoft Access format. Use this option to select and view any Event Log.
- **HotKeys Setup** – Launches the HotKeys setup allowing you to select the Current and StartUp HotKeys sets.
- **Triggers Setup** – Launches the Triggers Setup
- **Scheduled Stacks Setup** – Opens the Scheduled Stack Loading Configuration window
- **Find** – Allows you to search the Audio List for a phrase (such as Artist or Title)
- **Find Again** – Searches the Audio List for the next instance of a phrase

Tools

- **Update Folder List** – Refreshes the audio folders and the Audio List with the current SoundHound data.
- **AutoStep** – Activates automatic sequencing of the decks
- **HotKeys** – Displays the current HotKeys Palette
- **Loop** – If decks are not cleared after they have played, then WaveCart will sequence from deck 1 to 10 and then restart deck 1 again and loop the decks.
- **Triggers** – Turns on or off incoming Triggers
- **TimeEvents** – Enables or disables the Scheduled Stack Loading features.
- **Deck Height** – Adjust the height of the Play Decks
- **Clear Decks** – Unloads all decks
- **Pause All Decks** – Pauses all currently loaded decks, allowing them to sequence automatically if the relevant options are selected
- **UnPause All Decks** – Clears pause and places decks into stopped mode. Decks will no longer automatically sequence
- **Program Options** – Displays WaveCart's Program Options

Window

- **Optimize Display** – Maximizes the number of decks displayed on screen based on your screen resolution.

- **Show Pass-Through Control** – Shows or hides the **Pass-Through Mute** button

Help

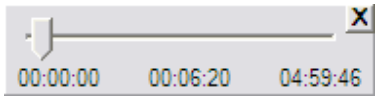
- **WaveCart Help** – Opens the Help File
- **Technical Support** – Opens your default Web Browser and navigates to the BSI Support Centre (requires Internet Access)
- **Security** – Allows access to WaveCart's Security Options
- **Register** – Validates your Hardware Key with the provided Validation Code to prevent WaveCart shutting down every few minutes
- **About** – Display the Registration Status and WaveCart Version.

Audio List (Right-Click Menu)

- **Play** – Auditions the highlighted file
- **Edit Info** – Launches the Info Edito
- **Edit Audio** – Opens your (optional) Audio Editor
- **Delete** – Permanently deletes the currently highlighted file
- **New Cart** – Creates new Virtual Cart
- **Refresh List** – Refreshes the audio list (forcing a database refresh)
- **Sort By** – Sorts the audio list using any one of the following parameters:
  Artist/Advertiser
  Category
  Description
  End Date
  Length
  Name
  Start Date
- **Ascending** – Sorts the list in Ascending order
- **Descending** – Sorts the list in Descending order
- **Show Details** – Toggles whether full or limited details of each audio file are displayed
- **Change list font** – Allows you select a different Windows font for the Audio List

Play Deck (Right-Click Menu)

- **Quick Load** – Allows you to quickly enter a known filename to load into the selected deck
- **Scrubber** – Opens up a scrubber allowing you to navigate through the audio file. Click the X to close the scrubber.



About

The Help > About menu option displays information about WaveCart including the full version number and registration status.

You can also view the full License Agreement from this screen.

Cart Viewer

As well as audio files, WaveCart supports the use of **Virtual Carts** (the ability to store multiple audio files in a single file). Within WaveCart (and BSI Simian) Virtual Carts are often abbreviated to Carts but are otherwise identical.

Events inside a virtual cart can either be played individually, with the next (or optionally random) file played next time the cart is played...or multiple events can be played 'back-to-back' (but not overlapped).

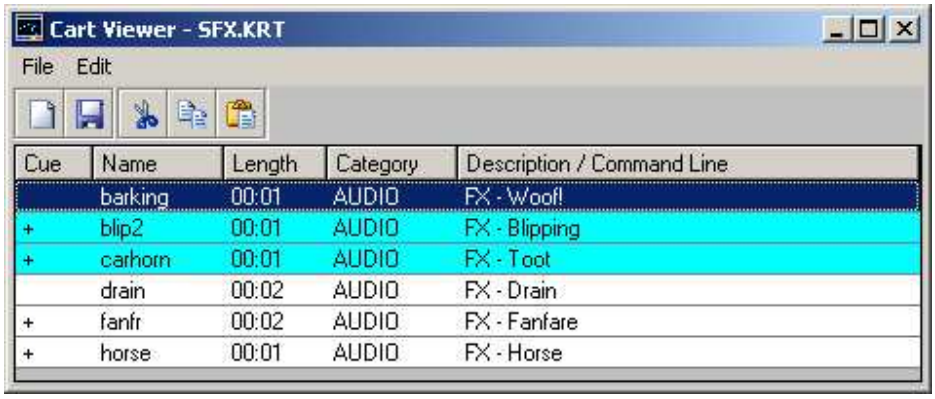
Launch the **Cart Viewer** from the Audio List's right-click menu or right-click any existing cart (colored green in the Audio List). You can also open the Cart Viewer using the **Edit > New Cart** or **CTRL+R** shortcut.

Create a new blank cart by clicking the New Cart icon and drag files from the Audio List into the cart.

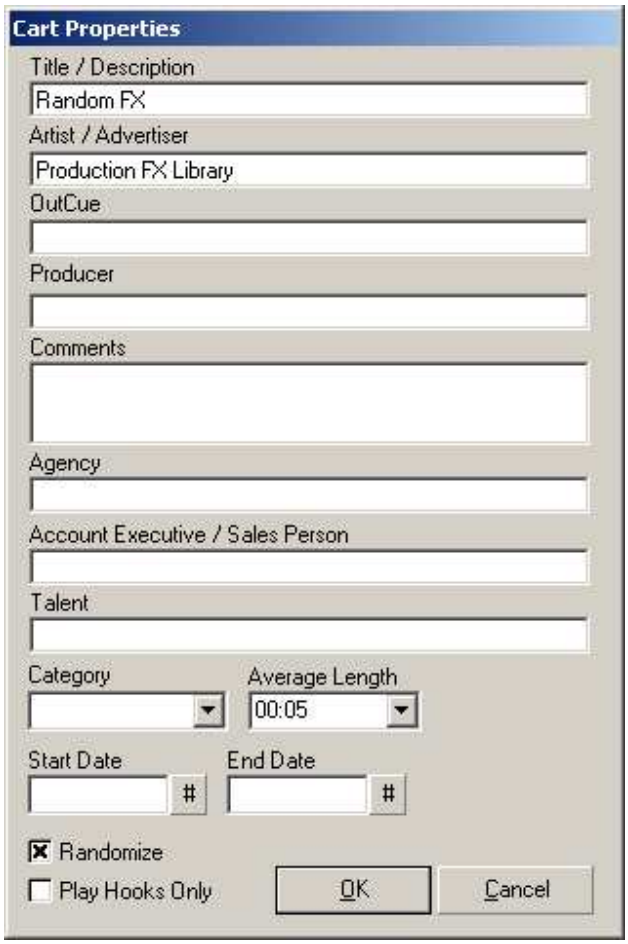
Using the **Edit** menu, you can Cut, Copy, or Paste files within a cart. To make an individual item in a cart next to play, use the **Edit > Make Next** option.

If you need to play multiple events in a cart back-to-back (it is not possible to overlap items within a cart, only between ***different*** carts and / or audio files) use the **+** key on each subsequent event you want to play. (The first item in a cart cannot have a + mark otherwise the cart would loop continuously).

In the example below, three events will play each time the cart is used. You can toggle the + mark with the + key on your keyboard.



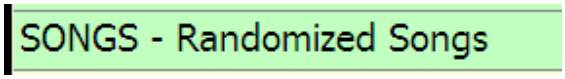
Before saving the cart, select the cart Properties from the Save Dialog, or File > Properties menu. Although the information is optional, it's helpful to enter as much information as possible as it can be useful in the future.



Average Length

Although optional, it's useful to enter an accurate value here so that when the Audio List is sorted, the cart is displayed in the correct position.

Carts are colored green in the Audio List.



Randomize

Events within a virtual cart can be randomized. This makes them ideal for things like rotating liners, jingles, filler music, etc.

When the randomized option is selected, each time the cart is played a random event will be selected from those events in the cart that have not already been played. When all events have been played, the process is restarted.

As carts are written to each time they're played (to update this information) it's important to ensure that carts are in a folder of their own. Otherwise, each time a cart is played it could trigger a SoundHound refresh of your entire music library.

Play Hooks Only

When this option is selected, WaveCart will only play the section of the song in the cart that you have designated as the Hook using the Info Editor tool.

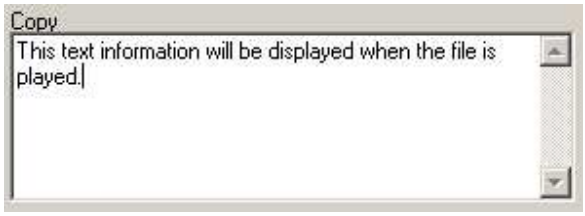
Utilizing this feature provides the opportunity to forward sell songs that are coming up by dragging a selection of upcoming songs into a cart and selecting the Play Hooks Only option.

Copy Text

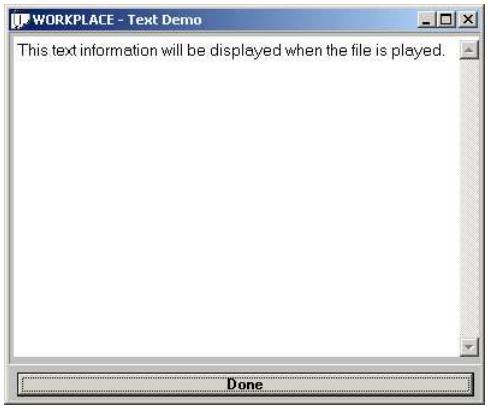
Although originally intended to display live copy for spots, WaveCart customers around the World have also found other novel uses of embedding textual information into their audio files which is displayed when the file is played.

For example, the latest Weather or Traffic Reports can be displayed when the relevant bed is played; or the latest news headlines when the News Sounder fires. Or you could embed liner notes for all your latest play list songs.

The information displayed is embedded into the audio file using the Info Editor **Copy** field.



Any information entered into that field can be displayed each time that file is played. Just activate the option from the main Program Options.

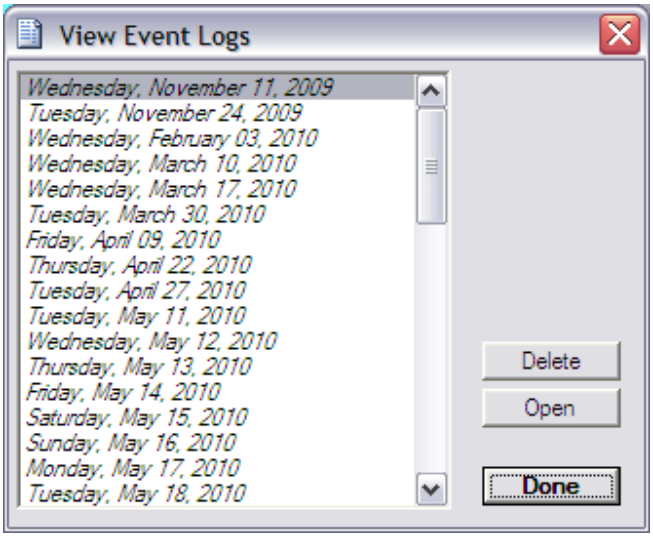


Event Log

WaveCart will optionally create an Event Log of every audio file played.

When Spots are being played using WaveCart, the Event Log can form the basis of your Affidavit or might be useful during trouble-shooting, etc.

To view previously created logs, select the **Edit > View Events Logs** option from the main menu and then select the date you want to view (your computer regional date settings should be set to Month, Day, Year).

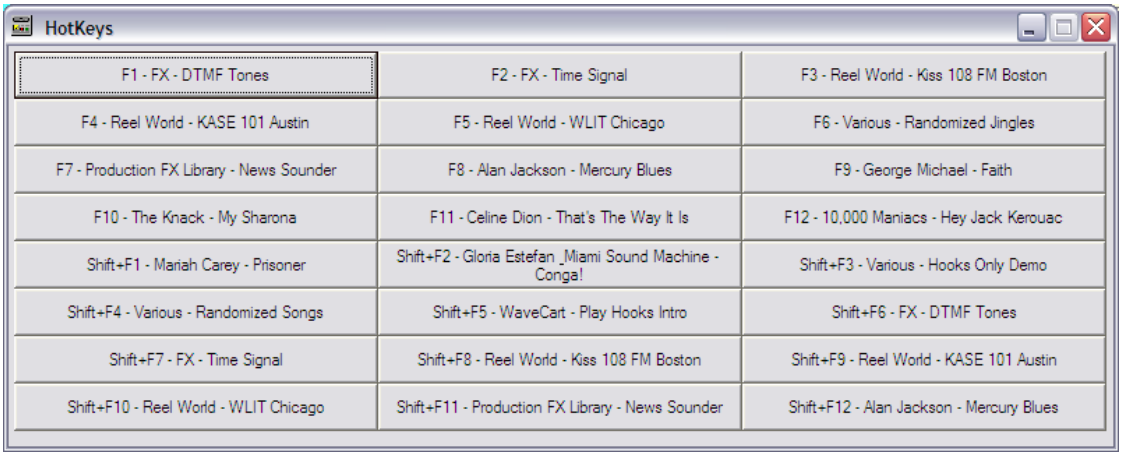


WaveCart can produce Microsoft Access compatible logs, or plain ASCII text files which are pipe delimited.

HotKeys

As well as WaveCart's 10 play decks, there are an additional 24 **HotKeys** which are played using the F1 to F12 and SHIFT+F1 to SHIFT+F12 buttons on your keyboard, or from the **HotKeys** palette.

To view the HotKeys palette, click **Tools > HotKeys** from the main menu. You can re-size the palette horizontally if you find that, as in the example below, not all the HotKey names fit in the default space provided.



WaveCart supports multiple Hotkeys Palettes which are setup from the **Edit > HotKeys Setup** menu.

Click the New HotKeys Set icon to create a new set...

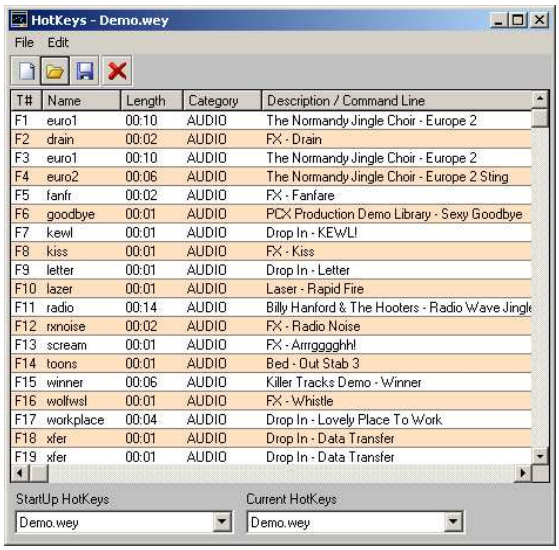
...or open an existing HotKeys Set to modify it.

Assign the HotKeys by dragging files from the Audio List. (F13 to F24 refer to the SHIFT+F1 to SHIFT+F12 buttons).

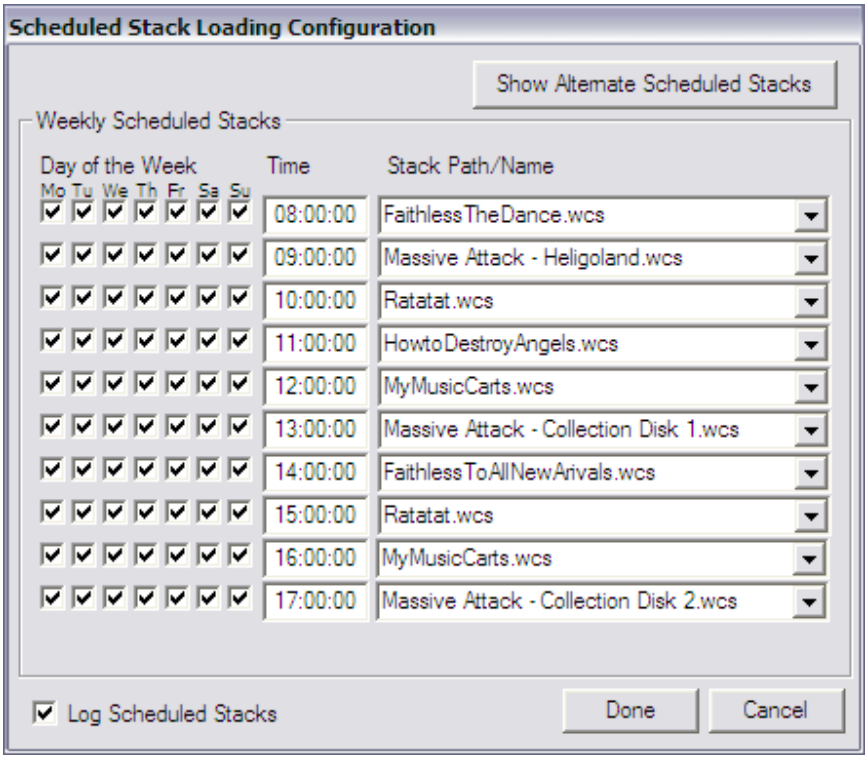
To remove a previously assigned event, highlight it and click the Clear HotKey Event icon.

Click the **Save HotKeys Set** button when finished.

Use the drop down boxes to select the **Current HotKeys** and the HotKeys set loaded when WaveCart is restarted.



Scheduled Stacks



The Weekly Scheduled Stacks feature will load stacks that you have created automatically on the days of the week, at the times you specify. For holidays or out-of-the-ordinary days, the Scheduled Stacks feature offers an additional set of schedulable fields for Alternate Scheduled Stacks. This feature is useful for users whom use WaveCart for very simple automation, or for station ID replacement on translator stations.

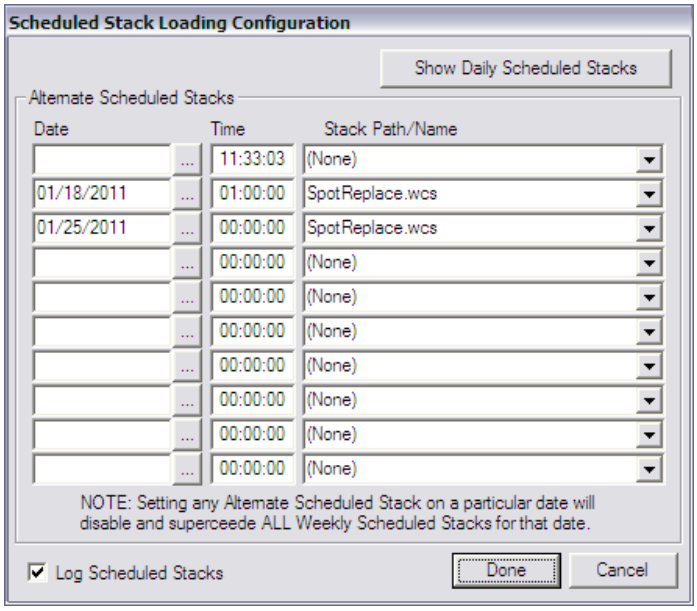
To schedule a Weekly Scheduled Stack, select one of your stacks from the Stack Path/Name dropdown, and then click into the Time field. You will be presented with a pop-up window that allows you to select your desired time. Once you have selected the time, place check marks into your desired days in the Day of the Week column.

Repeat the above process for each stack you wish to load at the scheduled time.

When you anticipate a holiday or special day that uses different stacks than your normal weekly schedule, you can set up scheduled stacks on the Alternate Scheduled Stacks page. To access this page, click on the **Show Alternate Scheduled Stacks** button shown in the above image.

To schedule an Alternate Scheduled Stack, select your desired stack from the Stack Path/Name dropdown column, click in the Time field and select a time from the pop-up, then select the date on which you wish to load the stack.

Note that when you set an Alternate Scheduled Stack on a particular date, all Weekly Scheduled Stacks will be ignored on that date.



Registration

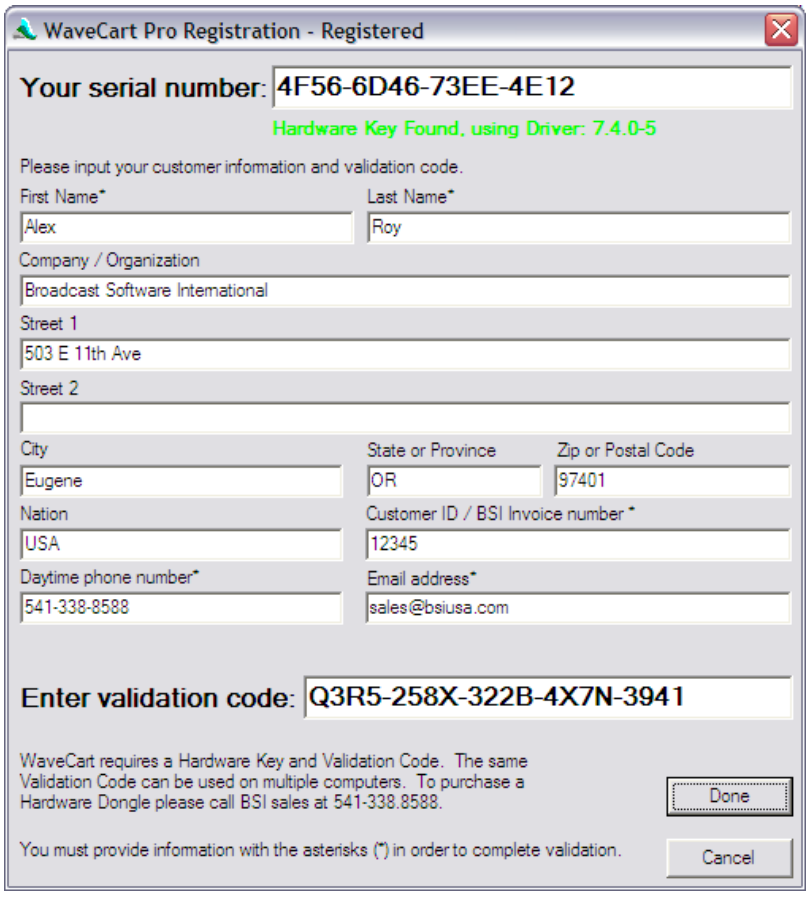
To purchase a copy of WaveCart, visit http://www.bsiusa.com.

IMPORTANT NOTE: WaveCart requires a Hardware Dongle; please ensure that you have installed the **Sentinel Driver** and inserted the USB Hardware key before registering the program.

Once you have purchased your copy of WaveCart, you will be provided with a USB Hardware Key and corresponding **Validation Code**.

You need to **Register** the program with the **Validation Code** to prevent the program shutting down every few minutes.

1. Select Help > Register from the main menu
2. Check that Your serial number matches the one written on the tag attached to your Hardware Key and enter all your information shown on the screen below.



3. Enter validation code as provided with your hardware key. Click Done when finished.
4. WaveCart is now registered (you can check on the Help > About screen and will no longer shut down every few minutes.

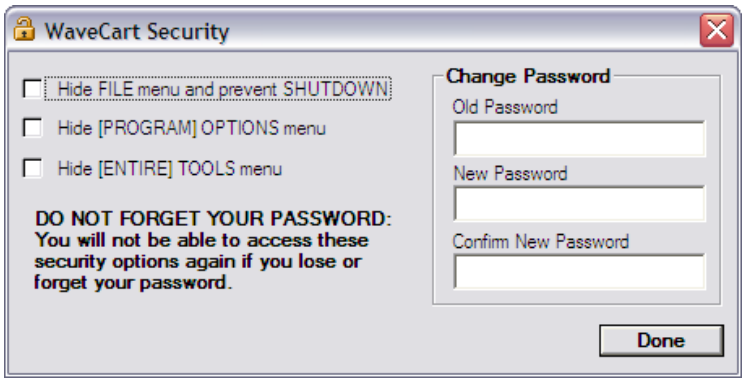
Security

To prevent users having access to all of WaveCart's features, you can optionally password protect some of the main menu options.

To setup WaveCart's security options, click **Help** > **Security** from the main menu. The first time you do this, you'll be asked to choose a **Security password**.

PLEASE DO NOT FORGET THIS PASSWORD AS YOU CANNOT MODIFY THE SECURITY SETTINGS WITHOUT IT!

Make a note of your chosen password in safe place, enter is twice as directed, and click **OK** when done.



Security Options

- **Hide FILE menu –** This hides the main **File** menu and removes all the options, including the ability to shut down WaveCart.
- **Hide TOOLS menu –** This hides the main **Tools** menu and removes all the options, including the **Program Options**. As hiding this menu also removes the shortcut to pause or clear all decks, most users are likely to choose to hide the [Program] options only.
- **Hide [PROGRAM] OPTIONS menu –** Rather than restrict use of all the features available on the **Tools** menu, selecting this option will just hide the **Program Options** menu.
- **Change Password** – From time to time, you may wish to update the security password. Please make a careful note of the new password and update your records as you will not be able to access the security settings without the password.

Stacks

WaveCart can save and recall stacks of decks, making it easy to save, load, and reuse frequently used collections of carts or event entire spot breaks.

When **Stacks** are saved, you can optionally enter additional information such as an **Air Date** together with Description and additional comments.

This information is then displayed in the **File > Open Stacks** menu option.

Triggers Sets

Using an optional hardware device, WaveCart can respond to up to 24 incoming **Triggers**.

Supported hardware devices include legacy DIO 24 cards from Computer Boards / Measurement Computing, the BSI Trigger Kit using a PMD/USB-1024LS, legacy ASI 4346 and 4336 cards, and the Current ASI 5211 model.

The number of available triggers is determined by the hardware device used; the BSI Trigger Kit provides the full 24 triggers, the ASI 4346 and 4336 cards support 16 triggers, and the ASI 5211 card supports 2 triggers.

To setup triggers, select the **Edit > Triggers Setup** option from the main menu.

Click the **New Triggers Set** icon to create a new set...

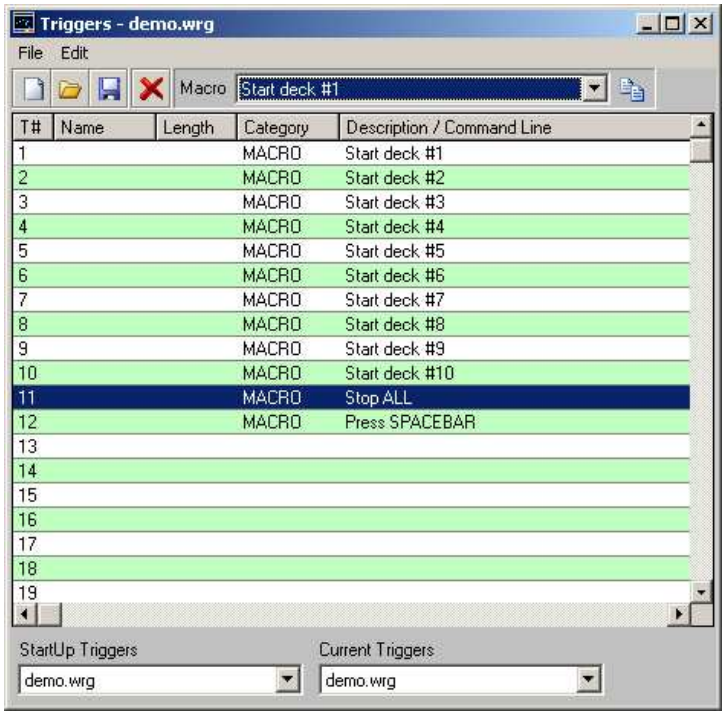
...or open an existing set using the **Open Triggers Set** icon

Use the drop down **Macro** list to select a desired action for an incoming trigger.

Drag the Macro to the Triggers Set using the Drag Macro to Triggers icon.

To remove an individual trigger, highlight it and click the Clear Trigger Event icon

When finished, click the Save Triggers Set icon

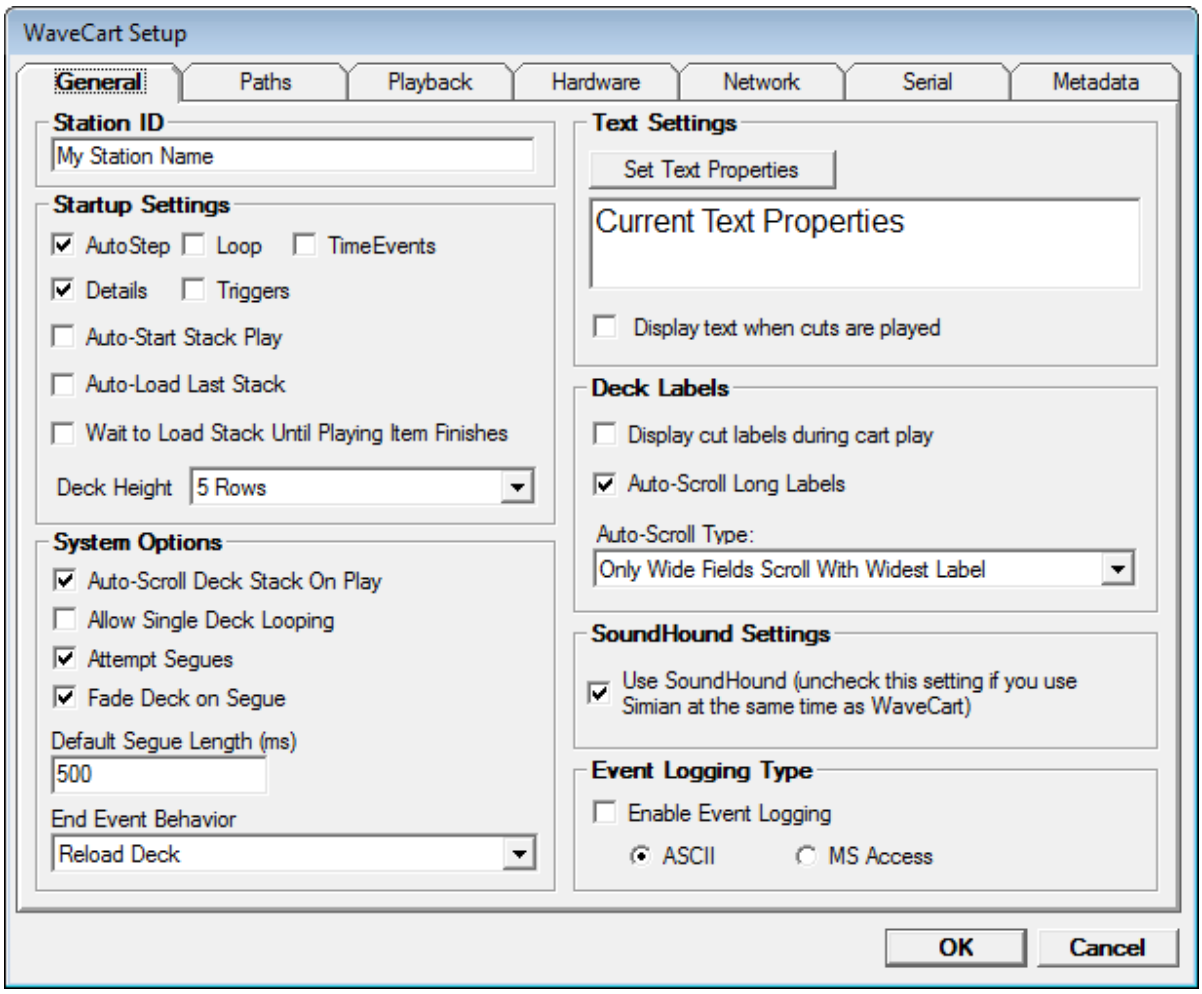


Select the Startup Triggers and Current Triggers using the drop down boxes.

Program Options

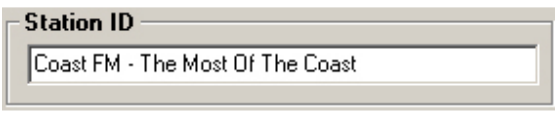
To setup WaveCart's Program Options select Tools > Program Options from the main menu.

General



Station ID

This field allows you to customize the display in the title bar of WaveCart. This could also be used as reminder of your station's strap line.



Startup Settings

Use these options to select which features are active when WaveCart is started. These options can also be turned on and off while WaveCart is running.

- **Triggers** – When checked, WaveCart will respond to incoming Triggers
- **Loop** – WaveCart will be placed into Loop mode, continously sequencing play decks
- **Details** – Audio List Show Full Details selected
- **AutoStep** – Play Decks will automatically sequence
- **Deck Height** – Selects the vertical size of the Play Decks.

System Options

- **Event Logging** – Activates WaveCart's built-in Event Log
- **Attempt Segues** – If supported by your sound card, WaveCart attempt to overlap play decks when in AutoStep mode. The next deck will be started when the Segue point of the previously playing deck is reached.
- **Fade Deck on Segue** – Enabling this option will fade the currently playing deck when its segue point is reached and start the next deck playing.
- **Default Segue** – If no Segue Marker has been placed in the audio file, the default segue length is used.
- **End Event Behavior** – Usually, it's desirable to Clear Deck to prevent replay of the same event. The Reload Deck option is useful when WaveCart is in Loop mode, perhaps with randomized carts, to provide a continous audio feed.

Text Settings

- You can customize the font and font size when the Display text when cuts are played option is selected. This display any text entered in the Copy field of the audio file using Info Editor.

Deck Labels

- **Display Cut Labels During Cart Play** – This option forces the Play Deck label to display the audio file information from within the cart, rather than the generic Virtual Cart information.
- **Auto-Scroll Long Labels** – With this option enabled, if the text in a deck's display label is too wide, it will automatically scroll so you can see the full text. Several scroll styles are available from the **Auto-Scroll** dropdown.

Event Logging Type

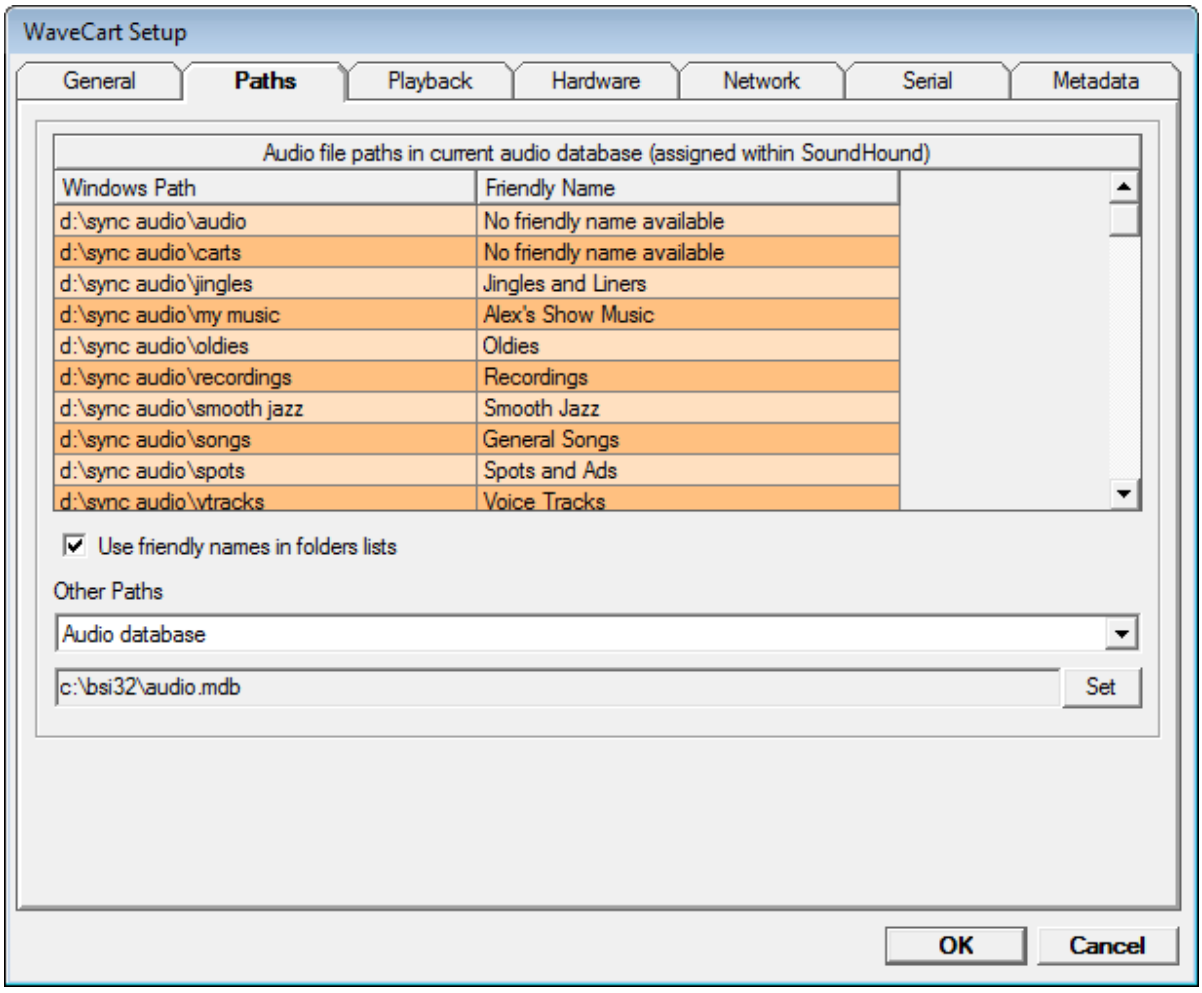
- Selects the format of the Event Log, either plain text ASCII**,** or **Microsoft Access** format.

SoundHound Settings

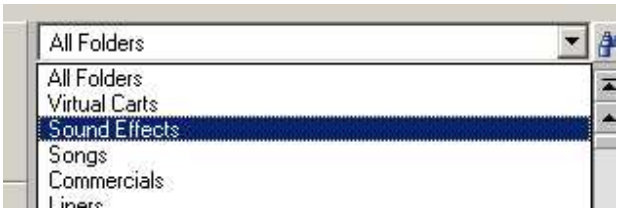
- Use SoundHound

  Unless another BSI application is already running SoundHound on your PC, then this option should be checked. WaveCart will continue to work if SoundHound is not running, but will not add any new files to the Audio list.

Paths



Audio file paths are setup using the **SoundHound** utility, selecting the **Use friendly names in folders lists** option displayed the friendly name in the Audio Folder List instead of the full file path.

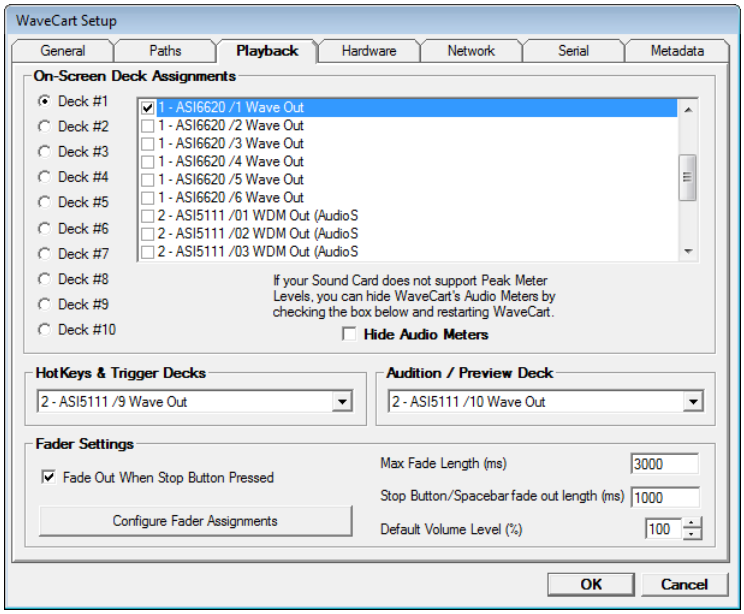


- **Other Paths** – Allows you to set paths to a different audio database, an optional Audio Editor (not supplied) and folders for Event Logs and Stacks.

Playback (Legacy version for Windows XP)

NOTE: The version of the Playback Tab shown below will only be displayed when running Stinger on computers running Windows XP. For setup on Windows 7 or later, see the next section: *Playback Tab (Version for Windows 7 or later)*.

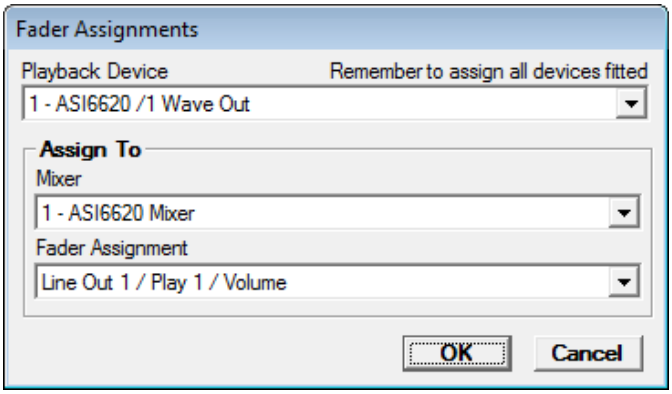
The Playback tab allows you to assign a different wave out device or sound card for each of the Play Decks, the HotKey & Trigger Decks and the Audio list Preview Deck.



It is not uncommon to only use two wave out devices for the main play decks, routed to two different physical outputs, with odd decks assigned to one output and even decks to the other - with a domestic on-board audio card routed to a pair of PC speakers for audition / preview purposes.

However, WaveCart supports a different output for each of the 10 on-screen and two hidden decks (HotKeys/Triggers deck & Preview deck). The capability of your sound card will determine how many files can be played back at the same time and how many different devices are available.

The **Fader Settings** section allows you to configure the faders controls that WaveCart will use for each play device. Clicking on the **Configure Fader Assignments** button will display the pop-up window as shown at right.



Select a play device from the **Playback Device** dropdown and then set the corresponding **Mixer** and **Fader Assignment** for that device. Repeat the above steps for each playback device available in the **Playback Device** dropdown list, and then click **OK** to save the changes.

The **Fade Out When Stop Button Pressed** option will cause a playing deck to fade out over the duration specified by the **Stop Button/Spacebar fade out length (ms)** field. While the fade-out is occurring, you can press the Stop button again to instantly stop the deck, or press the Play button to cancel the fade-out and return the volume to the percent specified in the **Default Volume Level (%)** field.

The **Maximum Fade Length (ms)** field specifies the absolute maximum amount of time any fade-out is allowed to take.

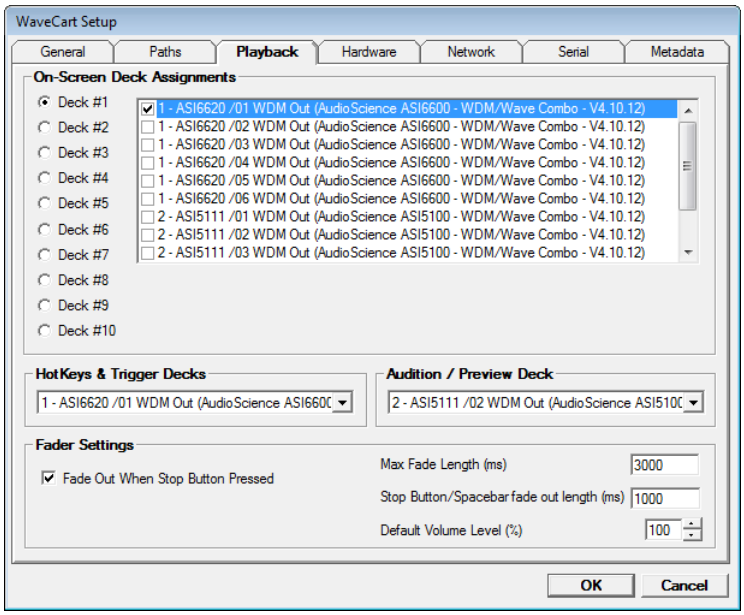
Playback (for Windows 7 and later)

NOTE: The version of the Playback Tab shown below will only be displayed when running Stinger on computers running Windows 7 or later. For setup on Windows XP, see the previous section: *Playback Tab (Legacy Version for Windows XP)*.

The Playback tab allows you to assign a different wave out device or sound card for each of the Play Decks, the HotKey & Trigger Decks and the Audio list Preview Deck.

However, WaveCart supports a different output for each of the 10 on-screen and two hidden decks (HotKeys/Triggers deck & Preview deck). The capability of your sound card will determine how many files can be played back at the same time and how many different devices are available.

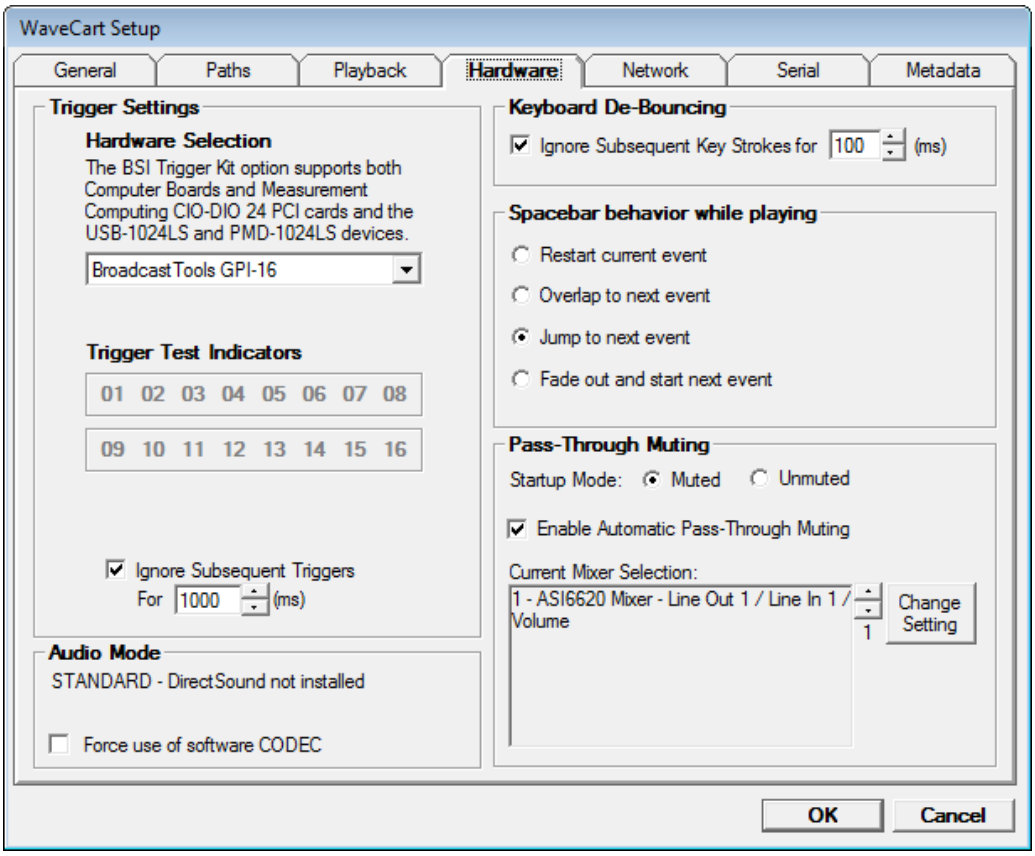
Commonly, the playback decks will be set to use the same physical play device (or even decks to one play device, and odd decks to another if manual fading of playback from your console is desired). Either way, with the new audio engine WaveCart uses when Windows 7 or later is detected, multiple decks can use the the same physical audio device and still all play at the same time, or you can set each deck to a different physical device if desired.



The **Fade Out When Stop Button Pressed** option will cause a playing deck to fade out over the duration specified by the **Stop Button/Spacebar fade out length (ms)** field. While the fade-out is occurring, you can press the Stop button again to instantly stop the deck, or press the Play button to cancel the fade-out and return the volume to the percent specified in the **Default Volume Level (%)** field.

The **Maximum Fade Length (ms)** field specifies the absolute maximum amount of time any fade-out is allowed to take.

Hardware



Hardware Selection

The drop down box allows you to select which optional hardware trigger device you are using. WaveCart supports the Measurement Computing DIO 24 boards (no longer available) as well as the current USB-1024LS devices used with the BSI Trigger Kit. Although no longer available, support also remains for customers with AudioScience 4336/4346 with 16 integrated triggers. WaveCart also supports the new ASI 5211 audio card with 2 integrated triggers.

The selected option will determine how many triggers are available.

When using a BSI (USB) Trigger Kit, you must select the Instacal Board #.

Trigger Test Indicators

These buttons will turn green momentarily if an incoming trigger is received. The buttons can also be clicked to test a trigger assignment.

Ignore Subsequent Triggers

If you find your self receiving erroneous triggers, or you just want the triggers to not respond to any further triggers for a certain amount of time after an initial trigger is

received, enable the **Ignore Subsequent Triggers** option and set the time to a desired ignore time period.

Keyboard De-Bouncing

If you find that keys are accidentally being double-pressed, you can configure the **Keyboard De-Bouncing** option to ignore keyboard presses that occur more often than a specified length of time. Simply enable the **Ignore Subsequent Key Strokes** check box, and set the time selector to the desired number of milliseconds.

Spacebar Behavior While Playing

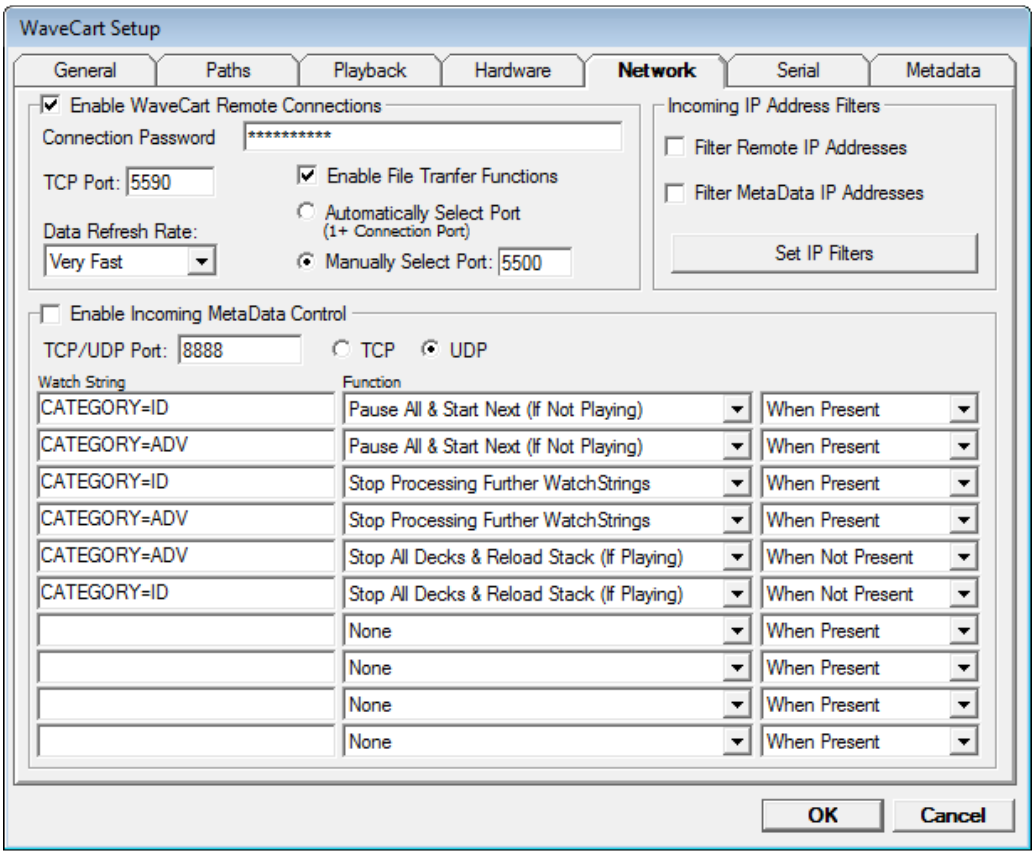
Use this option to determine what effect pressing the Spacebar has when a deck is playing.

Audio Mode

NOTE: This section is only displayed on Windows XP and Windows 7 32bit systems running the Legacy audio engine. On systems using the new audio engine, these settings don't apply and therefore are not displayed.

- **Standard** – This is the default audio mode, requiring multiple play streams (or multiple sound cards) in order to overlap files.
- **DirectSound** – When DirectSound mode is selected, then providing your sound card has full (not emulated) DirectSound support (and DirectSound is available on your PC) you can overlop multiple audio files using a single audio device even if your audio card usually only allows a single audio file to be played at the same time.
- **Force use of software CODEC** – WaveCart supports playback of Linear PCM (.wav), ADPCM, MP3 and MPEG Layer 3 file formats. If a format is not directly support by your audio card, this option forces audio to be played through an optional Windows ACM codec instead. Most modern PCs are supplied with an MP3 codec, but you may need to purchase a special MPEG Layer 2 ACM codec from BSI to support playback of MPEG Layer 2 (including Content Depot) files.

Network



The network tab allows you to configure the host settings to allow connections from **WaveCart Remote** clients and configure **MetaData Control** to allow you to have WaveCart automatically perform actions based on received MetaData (IE: data from an automation system, or other TCP/UDP based data source). There are also **Incoming IP Address Filters** available, should you want to limit connections to only certain incoming IP addresses. For more info on the WaveCart Remote application, see the section titled **WaveCart Remote Client** in this manual.

WaveCart Remote Connections

This section is used to configure your settings for use with the WaveCart Remote application to allow remote clients to connect to and control your WaveCart host. The **Connection Password** field allows you to set up a password which the remote user must use to log in to your WaveCart host.

The number entered into the **TCP Port** field determines what TCP/IP port your WaveCart host will listen to for remote connections. By default, WaveCart will listen to port 6500.

The **Enable File Transfer Functions** option allows remote client users to transfer audio files from their machine into the audio library, and even directly into a playback deck. The port the file transfer function uses is 1 higher than the TCP Port configured (6501 by default), but can be configured to any port desired by choosing the **Manually Select Port** option and entering the desired port number into the available field.

The **Data Refresh Rate** drop-down allows you to set how often the WaveCart Host will send update information, including the VU meter state, the deck labels, and the application labels. If you have a slow

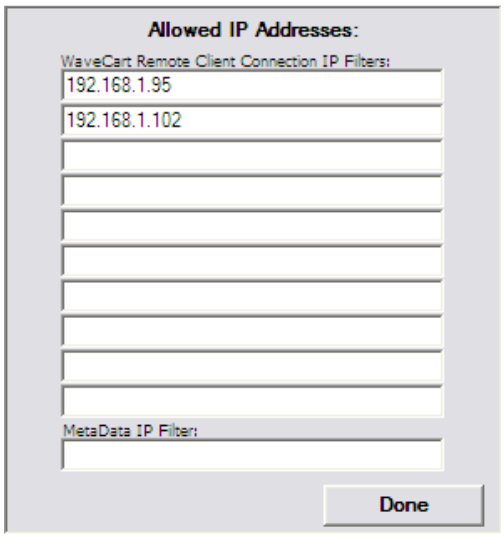
connection, or your internet service provider charges by the amount of bandwidth, you may want to set the data refresh rate to a lower value. Conversely, if you have a fast connection and don't have a bandwidth cap on your internet connection, you can set this value higher. This setting does not effect the reaction speed of asynchronus functions like clicking on the play or stop buttons, just the refresh rate of the data types mentioned above.

Incoming IP Address Filters

If the IP addresses of your remote clients or MetaData sources are static, you can set up Incoming IP Address filtering. With this option enabled, WaveCart will only allow incoming connections from the IP addresses specified, and reject all others.

You can enable or disable IP filtering for either the remote clients, or the meta-data control functions.

To add your desired IP addresses to the filter, click on the **Set IP Filters** button and the window at right will appear. Enter your desired IP addresses into the fields, then click Done. NOTE: wild cards are not allowed, the IP addresses entered must be the full, valid IP address.



Incoming MetaData Control

The **Incoming MetaData Control** function allows you to set up WaveCart to be controlled by TCP or UDP data sources. With this option enabled and configured, WaveCart will listen to the desired port for specific "watch strings", and take the specified actions when a watch string is found in the data stream.

The list of watch strings is processed in sequential order from top to bottom, so you can implement simple logic functions by using the **Stop Processing Further Watch Strings** function and the **When Present/When Not Present** function modifier.

The screen-shot of the WaveCart Setup – Network tab shown at the start of this section implements a station ID & commercial replacement technique that will mute the configured pass-through mixer and start playing the current stack when the watch strings "CATEGORY=ID" or "CATEGORY=ADV" are found in a metadata stream, and will stop playing the stack when neither the "CATEGORY=ID" nor "CATEGORY=ADV" watch strings are detected in the metadata stream. This is the type of setup used when using WaveCart Pro for station ID replacement on a translator/repeater station.

To configure a Watch String, type the text string (a "string" is a word or sentence of alpha/numeric text) into an available Watch String field, then select the function you want WaveCart to perform when that string is encountered from the **Function** dropdown. You can reverse the logic of the watch string by setting the function modifier to **When Not Present**, rather than **When Present**, so that the function is performed when the Watch String specified is not found in a metadata stream.

Serial

For WaveCart to communicate with a peripheral via the serial port, you'll need to configure a number of different options that may be required by your particular peripheral. Start by going to Tools/Program Options and selecting the Serial tab.

The information needed to set up serial communications options is available from your peripheral's manufacturer.

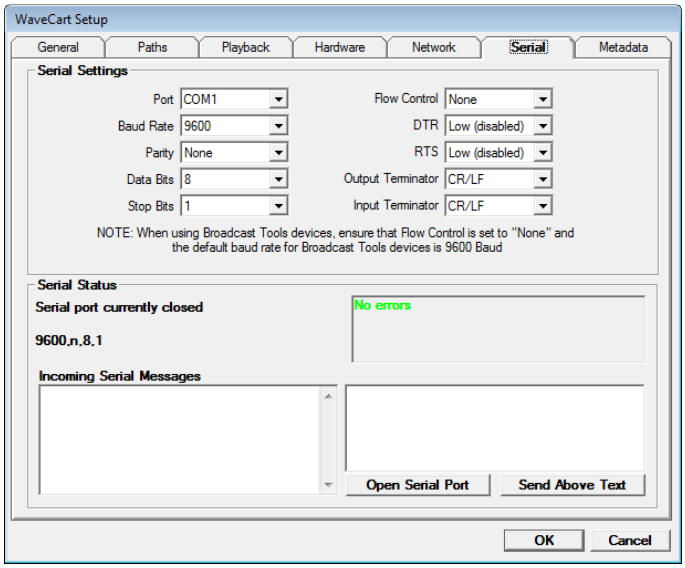


Figure 3.32

Port — Choose your preferred communication port setting. Valid options are COM1 through COM4.

Baud Rate — Choose the baud rate. Valid rates range from 300 to 28,800.

Parity — Choose the parity setting. This is the method of byte validation. Valid options are Even, Odd, Mark, or Space.

Data Bits — Choose the data bit transfer rate. Valid options are 4 through 8.

Stop Bits — Choose the stop bit rate. Valid options are 1, 1.5 and 2.

Flow Control — Choose the flow control setting. Valid options are Hardware, None, XOn/XOff, as well as Both Hardware and XOn/XOff.

Input Terminator — Choose CR (Carriage Return), LF (Line Feed), or CR/LF.

Output Terminator — Choose CR, LF or CR/LF.

DTR — This is a non-standard hardware-level option that is sometimes required by an external device. Normally set for Low (disabled).

RTS — This is a non-standard hardware-level option that is sometimes required by an external device. Normally set for Low (disabled).

Metadata

Configuring HTML Output

To post your play list on the World Wide Web, you need a browser and Internet access. If you don't have Internet access yet, you can still play with this feature and have a page displayed to anyone who's on your computer network or intranet.

We're assuming you don't have FrontPage or any other fancy html editor. If you do, this will be even easier.

WaveCart has two HTML page generators. Each HTML page generator requires a source (or template) page, and a destination page. WaveCart recreates the destination page every time a playback deck starts playing a new audio file using the template page. Therefore, you should only edit the template page as the destination page will be overwritten the next time a playback deck starts. The destination page is constantly deleted and rewritten automatically.

The BSI_Sample_Page.htm and BSI_Templage_Page.htm files included with Simian are intended as demo pages – we hope you will be creative and edit these or make your own custom pages!
To use a Dynamic HTML Page generator, simply follow these instructions:

1. Go to **Tools/Program Options**, and then go to the **Metadata** tab and select the **HTML** tab
2. Enable either the **Dynamic HTML 1** or the **Dynamic HTML 2** options to "turn on" one of the HTML generators
3. Select "C:\BSI32\BSI_Sample_Page.htm" or "C:\BSI32\BSI_Template_Page.htm" for the **Template (Source) Filename** field by clicking on the button
4. Manually type "C:\BSI32\BSI_Destination_Page.htm" into the **Destination File Name** field (you'll have to manually type this path/filename because the file won't exist)
5. Close the WaveCart Program Options dialog box by clicking on the **OK** button.
6. Start Playback of an audio file on one of the play decks.
7. Go to C:\BSI32 and double-click BSI_Destination_Page.htm. This will open the destination page in your default Internet browser.

Watch the Destination page and as you play events from your program log. Notice how the Dynamic HTML Page reloads with the information of the currently playing song.

Now, go get the person who writes your web page, because we're going to go Web Geek for a little while…

Dynamic HTML Pages For The Web Geek:

The Dynamic HTML function of WaveCart is similar to a mail merge…except that it merges the information of the currently playing events into an HTML template file. You do not need to keep the Dynamic HTML Page in its current form. In fact, we'd rather have you customize it. Therefore we're going to give you the lowdown on how it works.
If you open WaveCart and go to Tools/Program Options, then select the HTML tab on the **Metadata** tab. You'll see a set of options for Dynamic HTML.

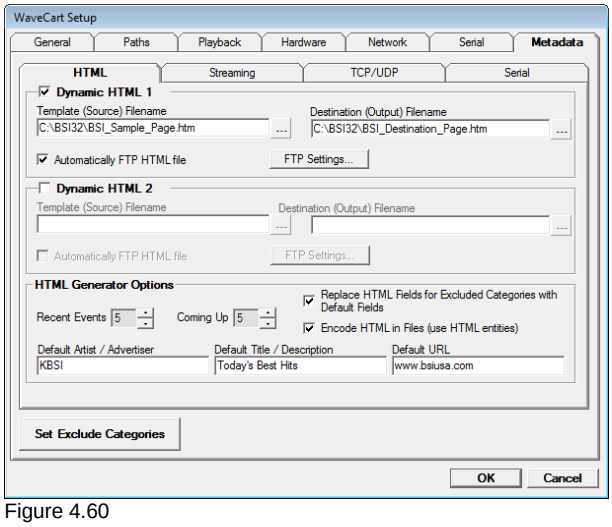


Figure 4.60

Dynamic HTML 1 / 2 – Turns on the Dynamic HTML generators for either of two templates.

Template (Source) Filename – Simian writes the Template file and then automatically copies it to the Destination file. You'll want to edit the Template.

Destination (Output) Filename – This file is automatically overwritten with the Template file information. You'll want to put this file on your local web server.

Automatically FTP HTML file – To upload your HTML file to an FTP site each time your HTML page is updated, enable this option. Click on the **FTP Settings…** button and you will be presented with the window shown in figure 4.60 so you can configure your FTP server's settings.

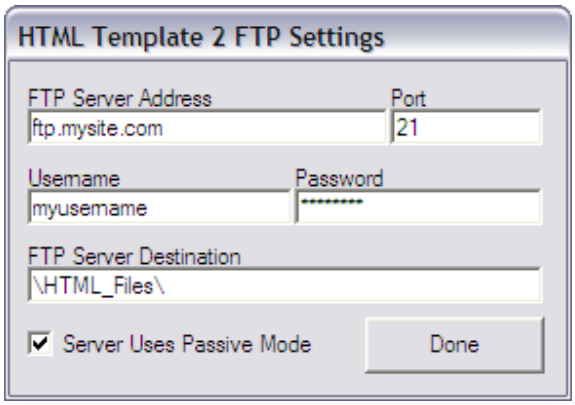


Figure 4.61

You will need to enter your FTP server's URL or IP address into the **FTP Server Address** field, and the port your FTP server is using (default is 21 for FTP servers). The Username and Password for your FTP account will need to be entered into the corresponding fields as well. The FTP Server Destination field is the directory your HTML page will be placed into. You can leave this field with only a back-slash if you want the file uploaded into the root directory of your account, or you can enter a relative path if you want the HTML page uploaded into a sub-folder on the server. If your FTP server uses Passive Mode to transfer files, place a check box into the **Server Uses Passive Mode** check box, otherwise, leave the option unchecked.

If you are unsure of weather your FTP server uses passive mode or not, you can try it both ways. If uploading your file fails while this option is unchecked, try again while it's checked. You won't hurt anything by trying either mode, your upload may just fail if the option doesn't match your server's mode.

Default URL – You can associate a URL with the different audio files so that you can set up spots to link to their advertisers. You define the URL in the audio file tag for the audio file. If no URL is specified, Simian will use this URL.

Default Artist / Advertiser – If the current event does not have an artist entered in its tagging info, the text entered in this field will be used instead.

Default Title / Description – If the current event does not have a title entered in its tagging info, the text entered in this field will be used instead.

Exclude Categories – To keep Simian from sending tags for certain kinds of Events, enable this option and configure the Exclude Categories settings on the Categories tab.

Recent Events / Coming Up – These set the number of items coming up and those recently played that will be written when you use the Recent and Coming Up tags.

Encode HTML in Files – Replace special characters with corresponding "escape characters" to properly conform to HTML standards.

HTML Tags

This is the bread and butter for the web developer. You can enter any of the tags below into your code.

The tags available are:

- Current Artist/Advertiser <!--BSIARTIST-->
- Current Description/Title <!--BSITITLE-->
- Current Event <!--BSICURRENT-->
- Current File Name <!--BSICURRENTFILE-->
- Current Album <!--BSIALBUM-->
- Current Category <!--BSICATEGORY-->
- Current Comments <!--BSICOMMENTS-->
- Current Composer <!--BSICOMPOSER-->
- Current Copy <!--BSICOPY-->
- Current Copyright <!--BSICOPYRIGHT-->
- Current Duration <!--BSILENGTH-->
- Current Genre <!--BSIGENRE-->
- Current Publisher <!--BSIPUBLISHER-->
- Current / Default URL <!--BSIURL-->
- Current Item Year <!--BSIYEAR-->
- Recent Events <!--BSIRECENT-->
- Recent Events – Short <!--BSIRECENT1-->
- Recent File Names <!--BSIRECENTFILES-->
- Station ID <!--BSISTATIONID-->
- (For compatibility, tags used in other BSI products will be recognized and left empty. This makes it possible for you to use the same template with WaveCart and Simian, and it'll just work)

Now that we've gone over the controls, let's go over how this works. WaveCart reads the Template file and looks for its proprietary tags. It then replaces those tags with the appropriate information from the currently playing audio file. It then copies the file over top of the previous Destination file. This means that you can edit the existing Template page, or create a new one and drop in the tags from the HTML Tag Generator.

If you do not have a web server in-house and use a service provider, you will need to upload the destination file each time the template file is updated. You can use the built in **Automatically FTP HTML File** option, as explained earlier, or any of a number of third-party FTP applications that can automatically transfer your file when a change is detected.

Configuring Streaming (HTTP call) Metadata Output

WaveCart can send artist, title, file length (among other fields) data to your internet stream encoder by HTTP calls when a new audio file starts playing from your program log. In addition to allowing you to set up custom HTTP output profiles, there are pre-configured profiles for ShoutCast, IceCast, and SAM Cast.

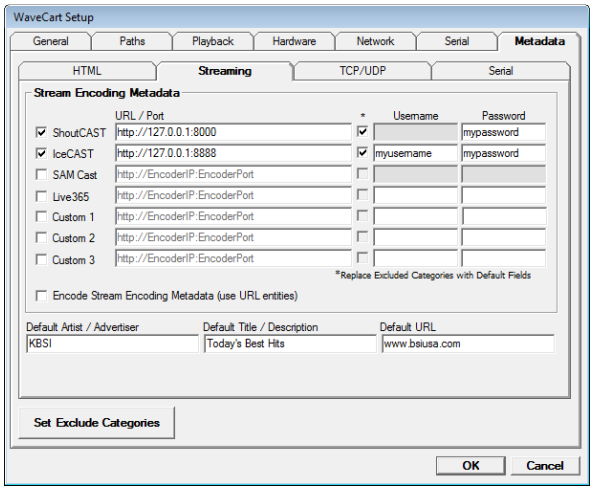


Figure 4.62

To configure ShoutCast, IceCast, or SAM Cast, enable the profile by clicking on the checkbox to the left of the corresponding profile. Enter the IP address or URL to your encoder, then a colon, and finally the port number your encoder is monitoring into the URL/Port field (see Figure 4.62 for an example). You may need to consult your encoder's settings, your stream service provider, IT person, or the encoder's manual for the URL and port number info.

To have invalid URL characters encoded as their “escape character” counterpart, enable the **Encode Stream Encoding Metadata (use URL entities)** option. For example, spaces will be replaced by “%20” when this option is enabled.

To configure other services – such as Live365, or others – that do not have a preconfigured HTTP output profile, there are two steps:

1. Enter the IP address/URL and port number required to access your stream encoder into one of the three Custom profiles' URL/Port field.
2. Modify the corresponding entry in the “Encoder Data.ini” file contained in C:\BSI32\ for the remainder of the URL required by your stream encoder.

To create your custom URL string, Meta Variables can be used to represent the data fields from your audio tracks. Meta Variables are replaced at run-time with the actual data from the audio track that is playing. Below is a list of the available Meta Variables.

- %ARTIST% Artist/Advertiser field
- %TITLE% Title Description field
- %ALBUM% Album field
- %CATEGORY% Category field *(see note regarding SAM Cast)
- %LENGTHMILS% Audio file duration in milliseconds
- %LENGTHSECONDS% Audio file duration in seconds
- %LENGTH% Audio file duration in mm:ss
- %FILENAME% Physical filename of audio file
- %PASSWORD% Password entered in the corresponding HTTP output profile
- %USERNAME% Username entered in the corresponding HTTP output profile
- %URL% URL field
- %PUBLISHER% Publisher field
- %COMPOSER% Composer field
- %GENRE% Genre field
- %YEAR% Year field
- %COMMENTS% Comments field
- %STATIONID% Station ID field
- %COPY% Copy field
- %COPYRIGHT% Copyright field
- %DESC% Description field

Example:

http://192.168.1.90:8888 along with the username and/or password (if required by your stream encoder) would be entered in the **Custom 1** field on the **Streaming** tab of WaveCart's **Program Options.**

/?user=%username%&pass=%password%&artist=%artist%&title=%title%&image=%URL% would be entered after the "Custom1=" line in the EncoderData.ini file.

*__SAM Cast__ uses single letter categories of "S", "A", "P", "J", and "I" to represent Song, Advertisement, ID, Commercial, etc. For the SimpleCast profile only, WaveCart will automatically convert the following common full word categories to the corresponding single letter categories before outputting the HTTP data:

Category Name as entered in WaveCart	Character replacement before sending to SAM Cast
"Audio"	S
"Ad", "Advertisement", "Comm", "Commercial"	A
"ID", "Station ID"	I
"Promo", "PSA"	P
"Jingle"	J

This is done so that you can leave categories in WaveCart as the easier to work with whole word categories while retaining SAM Cast's category functionality. Note that only the specifically listed categories above are automatically translated. All other categories are passed through as given.

Configuring TCP/UDP Metadata Output

Should you have the need to output artist, title, category, etc. data to an RDS, Stream Encoder, or other device via UDP or TCP, WaveCart offers TCP/UDP Metadata output functionality (commonly referred to as PAD data). Before using this function, you must create a template file. The Metadata function utilizes a user-created template to structure the output data.

There are also two built-in templates to work with Orban Optimod and Omnia AXE encoders. Simply enable either of these options and set your IP address and Port number (which need to match your configuration in your Optimod or AXE device's setup).

Creating a TCP/UDP Metadata Template

To create a Metadata template, you will need an ASCII text editor (such as Notepad, which is included with your Windows operating system). Use the Meta variables from the table below to build your your PAD output file (see Figure 4.63 for an example, %ARTIST%, %TITLE%, and %URL% are meta-variables used).

- %ARTIST% Artist/Advertiser field
- %TITLE% Title Description field
- %ALBUM% Album field
- %CATEGORY% Category field *(see note regarding SimpleCast)
- %LENGTHMILS% Audio file duration in milliseconds
- %LENGTHSECONDS% Audio file duration in seconds
- %LENGTH% Audio file duration in mm:ss
- %FILENAME% Physical filename of audio file
- %PASSWORD% Password entered in the corresponding HTTP output profile
- %USERNAME% Username entered in the corresponding HTTP output profile
- %URL% URL field
- %PUBLISHER% Publisher field
- %COMPOSER% Composer field
- %GENRE% Genre field
- %YEAR% Year field
- %COMMENTS% Comments field
- %STATIONID% Station ID field
- %COPY% Copy field
- %COPYRIGHT% Copyright field
- %DESC% Description field

Example:

Template:

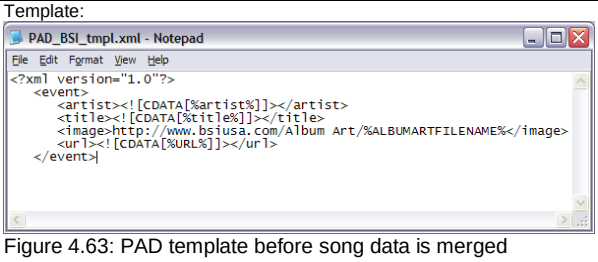


Figure 4.63: PAD template before song data is merged

Merged Output:

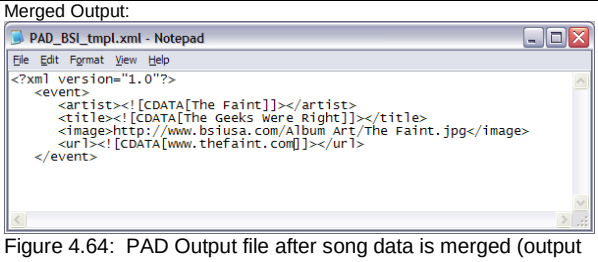


Figure 4.64: PAD Output file after song data is merged (output is sent via UDP/TCP, not merged to a file. This is for example only)

Configuring TCP/UDP Metadata Settings

After you have created your template file as outlined above, you will need to configure WaveCart's Metadata options to utilize your file and let WaveCart know where and how it is to send your data.

Template File Name – click on the "…" **Browse Button** to browse to, and select your PAD data template file (these usually have an .xml extension).

IP Address – Enter the IP address or URL to your encoder (or other device) that you want to send your PAD data to.

Port – Enter the port your encoder (or other device) is monitoring for PAD data.

UDP / TCP selection – Select the communication type, either UDP or TCP. Note that TCP can cause delay/timeout issues if the address and port specified are not accessible.

Replace Excluded Categories with Default Fields – If you would like to exclude data from categories of your choosing, enable this option after configuring the Exclude Categories.

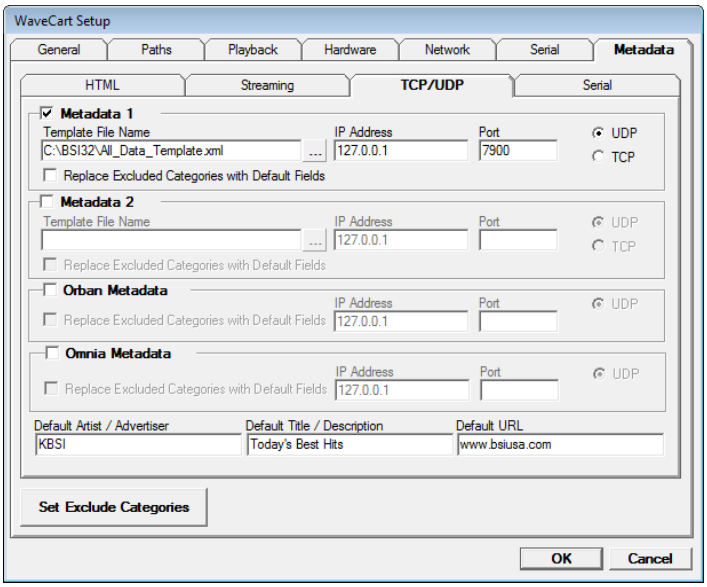


Figure 4.65

Configuring Serial Metadata Output

Should you have the need to output artist, title, category, etc. data to an RDS encoder or other device via serial port, WaveCart offers Serial Metadata output functionality. Before using this function, you must create a Serial Output String. The Serial Metadata function utilizes a user-created "string" (A.K.A. sentence) to structure the output data.

Use plain text, along with the Meta variables from the table below to build your output string. For example, %ARTIST% and %TITLE% are meta-variables used in figure 4.66.

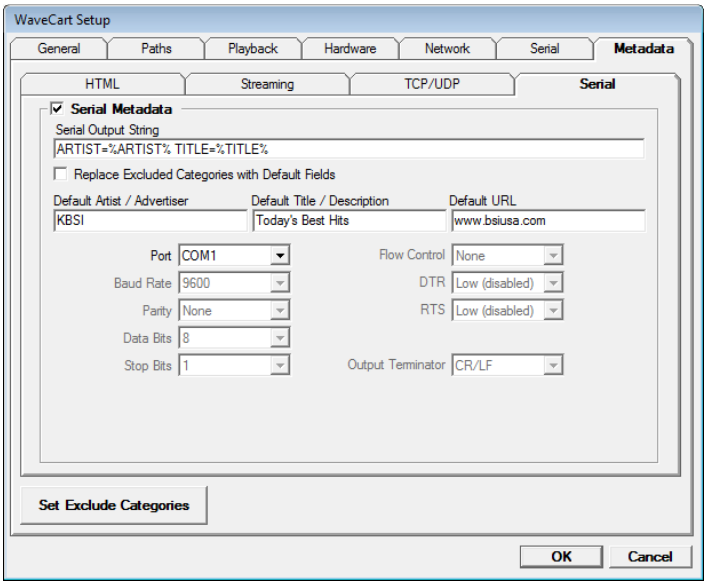


Figure 4.66

- %ARTIST% Artist/Advertiser field
- %TITLE% Title Description field
- %ALBUM% Album field
- %CATEGORY% Category field *(see note regarding SimpleCast)
- %LENGTHMILS% Audio file duration in milliseconds
- %LENGTHSECONDS% Audio file duration in seconds
- %LENGTH% Audio file duration in mm:ss
- %FILENAME% Physical filename of audio file
- %PASSWORD% Password entered in the corresponding HTTP output profile
- %USERNAME% Username entered in the corresponding HTTP output profile
- %URL% URL field
- %PUBLISHER% Publisher field
- %COMPOSER% Composer field
- %GENRE% Genre field
- %YEAR% Year field
- %COMMENTS% Comments field
- %STATIONID% Station ID field
- %COPY% Copy field
- %COPYRIGHT% Copyright field
- %DESC% Description field

You will also need to configure the serial port settings in the fields provided. These settings will depend on the device you are sending this data to.

Note that if you have selected the same port number on the Serial Metadata tab as you have selected on the main Serial tab (the serial port settings used by the available serial trigger devices), the settings will be grayed out. In that case, both the trigger hardware and the Serial Metadata functions will use the same port and the port settings are configured on the Serial tab. If you want to use a different port for your serial trigger device and the Serial Metadata output, ensure that a different port is selected on both tabs and configure the port settings accordingly.

Configuring Metadata Exclude Categories

If you are using the HTML Page Generator, Streaming Metadata, TCP/UDP Metadata, or Serial Metadata, you can configure the Exclude Categories so that data from categories of your choosing won't output data. This means that if you don't want to output data from Station IDs or Spots, you could add those categories to the Exclude Categories list, then enable the Exclude Categories option on your desired metadata output types and the data from those categories won't be sent via HTML, Stream, TCP/UDP, or serial output.

To configure the Exclude Categories, simply click on the **Set Exclude Categories** button in the lower left corner of the **Metadata** tab. The window shown at right will appear. Simply type in the name of the categories of audio files you want to exclude from metadata output and click **Done**. Make sure to also enable the **Replace Excluded Categories with Default Fields** options along with the default data fields for each metadata output type you wish to adhere to the exclude category configuration.

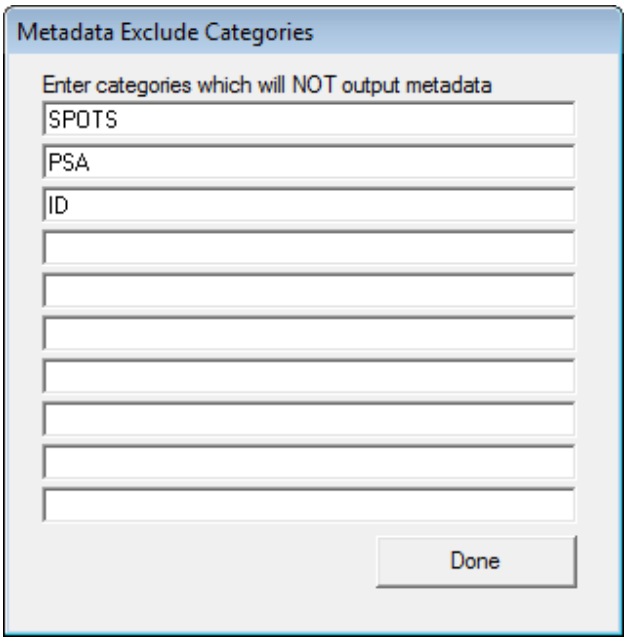


Figure 4.67

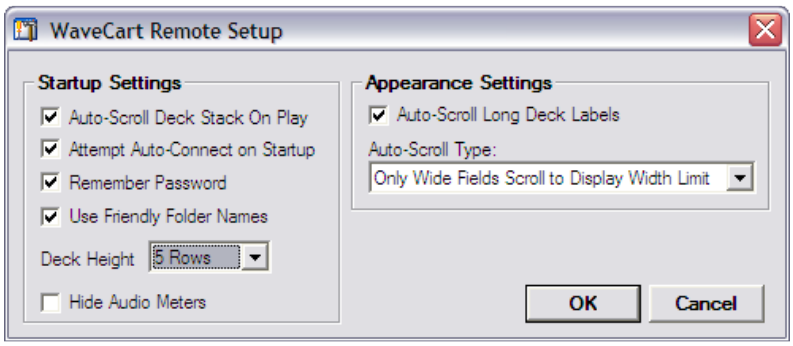
WaveCart Remote Client

The WaveCart Remote Client allows you to connect to a running WaveCart Host to start decks playing, load audio files into decks, load stacks, change Scheduled Stack settings, play HotKeys, load HotKey sets, load Trigger sets, and more.

The user interface is nearly identical to WaveCart itself. The main difference being the connection details at the top of the Audio List.

Setup

To configure the WaveCart Remote Client, go to the **Tools** menu and choose **Program Options**. You will be presented with the window shown at right.



The **Auto-Scroll Deck Stack On Play** option will cause the stack of decks to scroll automatically if a deck is started that is above or below the currently visible decks.

The **Attempt Auto-Connect on Startup** option will cause the WaveCart Remote Client to try to connect to a WaveCart Host with the last configured IP address and Port.

With the **Remember Password** option enabled, the last successfully used password will be remembered and automatically used the next time you connect to a host. If that password is no longer valid, you will be prompted to enter the current one when attempting to connect.

The Use Friendly Names option will cause the folder list displayed above the Audio List to show their configured friendly names. If no friendly name has been configured for a path, or this option is disabled, the folder list will display the actual path (the path to the audio file on the WaveCart Host).

The **Deck Height** option will determine what deck height mode WaveCart is set to when the application is started.

The **Hide Audio Meters** option will either show, or hide the VU meters on the left of each playback deck. If you don't need to see meters, or your audio card doesn't support audio meters, enable this option.

In the **Appearance Settings** section, you can set the deck labels to automatically scroll in several different styles to show any Artist or Title data that is too long to show in the width of the deck label field.

Use

To use the WaveCart Remote Client, you must first set up WaveCart (the Host) and enable it to accept remote connections. When configuring WaveCart, you will need to take note of that machine's IP address, the connection port(s) you select to use (the default is 6500 for the remote connection, 6501 for file transfer functions), and the password you set.

With your WaveCart Host up and running, and waiting for connections, you can open WaveCart Remote on another machine and enter the Host's IP address and port number into the appropriate fields in the upper right corner and click on the **Connect** button. WaveCart Remote will connect to the WaveCart Host and download it's audio file library information (the Artist/Title info, not the actual audio files).

Once the library is downloaded, you will have full control over the WaveCart Host. You can play, stop, pause, load decks, save stacks, edit Scheduled Stacks, play Hotkeys, load Trigger sets, and more!

Support

Technical Support for WaveCart is provided by our online Support Center at http://support.bsiusa.com.

Information about product updates and answers to common questions are available 24-hours-a-day.

If our **FAQ** or **User Forum** doesn't provide the answers you need, or if you have a problem of a technical nature relating to our software or any hardware we have supplied, then please use the links provided to submit a Support Ticket.

We aim to respond to all **Support Tickets** within 60-minutes during normal weekdays, from 6am to 6pm (PST).

Please note that **Telephone Support** for WaveCart is only available to customers that have purchased a Tech Support Plan; and we cannot undertake to diagnose or configure hardware that we have not directly supplied.

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