

CasaTunes Command Line Specification

Prepared by: David Krinker

Thursday, December 10, 2009

Version: 1.1

Table of Contents

Overview	1
Background	1
Usage	1
Command Line Interface	2
Examples	5
Revision History	6



Overview

Background

The CasaTunes Command Line utility provides an easy-to-use command line interface for controlling CasaTunes. The command line utility can be run from an XP/Vista/Windows7/WHs command window, invoked by double clicking on a shortcut, spawned from a controlling application, run from the Windows scheduler, etc.

Since the CasaTunes Command Line utility was developed using the CasaTunes Web Services, you can run this utility on a machine other than where the CasaTunes Music Service is hosted. If you are going to run this utility from a remote machine you must copy two files onto the remote machine (as well as install version 3.5 Service Pack1 of the .Net framework on the remote machine). Both files are located in the folder, "C:\Program Files\CasaTools\CasaTunes2". The two files to copy are:

CasaCommand.exe
CasaCommand.exe.config

The CasaTunes Command Line utility is a customer driven application and will be evolved based on customer feedback. If you feel there is a need for additional functionality, please email Support@CasaTunes.com and let us know.

Usage

This section provides a quick overview of how to use the CasaTunes Command Line utility. You can experiment with these commands as you read along by opening a command window and running the provided examples. To open a command window, click on the Start button, type CMD in the search bar, and press the <Enter> key.

When providing a string parameter which contains spaces, you must enclose the parameter in double quotes.

For example,

```
/Zone=NoSpacesIsOK
```

```
/Zone="NoSpacesInQuotesIsOK"
```

```
/Zone="Spaces in double quotes is OK"
```

```
/Zone=Big problem!
```

The first three examples are all valid, but the fourth example results in an error because the string contains spaces and is not encapsulated in double quotes.

All CasaTunes Command Line utility options are case-insensitive.



Command Line Interface

The name of the executable file to run is *CasaCommand.exe* and by default this file is located in your CasaTunes folder, i.e. C:\Program Files\CasaTools\CasaTunes2 folder. The simplest way to run the CasaCommand utility is to run it in a Command window. To do this click on the Windows Start button, and type Command in the Windows Search box, and press the <Enter> key. A new command window should open. In this command window, type:

```
CD C:\Program Files\CasaTools\CasaTunes2<Enter>
```

Then, for example, to display the CasaTunes System Information, type the following CasaCommand:

```
CasaCommand /SystemInfo<Enter>
```

The actions to be performed by CasaCommand are defined by the command options in the following table:

Command Options	Description
/Server="Machine Name"	<p>This option is only necessary if you are running CasaCommand from a remote machine. In this case you must specify the name of the machine where the CasaTunes Music Server software is installed.</p> <p>Instead of a machine name, you can also use the IP address of the CasaTunes Music Service machine, for example, 192.168.1.150</p> <p>If specified, this option must only appear on the command line and not in the input file.</p>
/Port=n	<p>Specifies the port number for the communication with CasaTunes. This option should only be specified when you are directed to do so by CasaTunes Support.</p> <p>If specified, this option must only appear on the command line and not in the input file.</p>
/File="Input File Path"	<p>Specifies the path to a file that contains one or more CasaTunes commands. Each command must be on its own separate line (and does not include the CasaCommand keyword, refer to the /File example below). An input file allows you to specify more than one command without the startup delays of running a new instance of CasaCommand each time.</p> <p>When the /File option is specified, the only other valid command line options are /Server and /Port</p>
/Zone="Zone Name"	<p>Specifies the name of the Zone or ZoneGroup to control</p>
/AllZones	<p>Specifies you want to control all zones. This option is only valid when used with the /Power and /Delay options.</p>

Command Options	Description
/Power=ON OFF	Specifies whether to turn the power on or off for a zone, zone group or all zones
/Delay=n	Specifies the number of seconds to delay before powering off a zone, zone group, or all zones. Ignored otherwise.
/Source="Source Name"	Specifies the name of the Source to select for a zone or zone group, or is used to specify the source to display information for when used with /SourceInfo option
/Volume=+n -n n	<p>Specifies to increase the volume, decrease the volume, or set the volume to an absolute value, respectively.</p> <p>For CasaTunes XL hardware the absolute option value should be from 0 to 80.</p>
/Mute=ON OFF	Turns Muting for a Zone or Zone Group on or off
/DND=ON OFF	Turns DND for a Zone on or off
/Party=ON OFF	Turns Party Mode for a zone on or off (Rusound only)
/Master=ON OFF	Turns Master Mode for a zone on or off
/Lock=ON OFF	Turns Keypad Lock for a zone on or off
/SearchMusic="Search Criteria"	<p>Selects the music that matches the search criteria. If you do not specify the /Play option, CasaCommand will display the list of tracks and stations that match your search criteria. This is a good way for you to test your search criteria.</p> <p>The "search criteria" is split into words by CasaTunes, and each word in the search criteria must be found in a station or track for there to be a match. For tracks, the words are searched against the song title, album and artist names. For stations, the words are searched against the station description.</p>

Command Options	Description
/SearchPlaylists="Search Criteria"	<p>Selects all playlists (including CasaTunes playlists) that match the search criteria. If you do not specify the /Play option, CasaCommand will display the list of playlists that match your search criteria. This is a good way for you to test your search criteria.</p> <p>You specify "search criteria" which must match (=string), be contained within (string or *string*), starts with (string*) or ends with (*string). For example:</p> <p>/SearchPlaylists="=My Jazz Selection" will match the playlist named <i>my jazz selection</i></p> <p>/SearchPlaylists="Jazz" will match any playlist that contains <i>jazz</i></p> <p>/SearchPlaylists="My*" will match any playlist that starts with <i>my</i></p> <p>/SearchPlaylists="*Selection" will match any playlist that ends in <i>selection</i></p> <p>All searches are case insensitive</p>
/SearchAlbums="Search Criteria"	Selects all albums that match the search criteria (see SearchPlaylists for rules on how to specify the search criteria). If you do not specify the /Play option, CasaCommand will display the list of albums that match your search criteria. This is a good way for you to test your search criteria.
/SearchArtists="Search Criteria"	Selects all artists that match the search criteria (see SearchPlaylists for rules on how to specify the search criteria). If you do not specify the /Play option, CasaCommand will display the list of artists that match your search criteria. This is a good way for you to test your search criteria.
/SearchGenres="Search Criteria"	Selects all genres that match the search criteria (see SearchPlaylists for rules on how to specify the search criteria). If you do not specify the /Play option, CasaCommand will display the list of genres that match your search criteria. This is a good way for you to test your search criteria.
/Play=Now Add AddAndPlayNow	Specifies whether to play the music <i>Now</i> , <i>Add</i> the music to the queue, or <i>Add</i> the music to the queue <i>And Play Now</i> . Used in conjunction with /SearchMusic and /Playlist options to play the selected music
/PlaySong	Specifies to start playing a track or station
/PauseSong	Specifies to pause playing a track or (stop playing a) station
/StopSong	Specifies to stop playing a track or station
/NextSong	Skips to the next track

Command Options	Description
/PreviousSong	Skips to the previous track
/SystemInfo	Returns information about the system, including the number of zones, zone groups, sources, and version information
/ZoneInfo	By default returns the zone information for all zones and zone groups. If /Zone is specified, then it returns the zone information for the specified Zone or ZoneGroup
/SourceInfo	By default returns the source information for all sources. If /Source is specified, then it returns the source information for the specified Source.
/RefreshLibrary=iTunes Windows	Refreshes the specified media library and waits until the refresh is completed
/Wait=n	Wait n seconds before processing the next command (line) in the input file

Examples

CasaCommand /Server="Developer-PC" /Zone="Office" /Power=ON /Volume=22 /Source="XM Tuner"

This command is invoked remotely and turns on the power in the Office, sets the volume level to 22, and changes the source to the XM tuner source.

CasaCommand /Zone="Office" /Source="Player1" /SearchMusic="U2 Joshua Tree" /Play=Now

This command will play the music that matches the criteria "U2 Joshua Tree" (presumably the album Joshua Tree by U2) in the Office on the Player1 source

CasaCommand /AllZones /Power=Off /Delay=300

This command will turn off all zones after 5 minutes

CasaCommand /Server=CasaServer /File=C:\CasaTunes\WakeUp.txt

This command will run the commands found in the input file C:\CasaTunes\WakeUp.txt on the remote CasaTunes music server called "CasaServer".

Example contents of C:\CasaTunes\ WakeUp.txt



```
/Power=Office /Volume=10 /Source="Player 1"  
/SearchMusic="Norah Jones Come away with me"  
Wait=5  
/Volume=+2  
Wait=5  
/Volume=+2  
Wait=5  
/Volume=+2  
Wait=5  
/Volume=+2  
Wait=5  
/Volume=+2
```

Turns the Office zone on, selects "Player 1" as the source, set the volume level initially to 10. Selects the Norah Jones album and then ramps up the volume over the next 25 seconds.

Revision History

1.0 Initial Release

1.1 Added support for /SearchPlaylists, /SearchAlbums, /SearchArtists, /SearchGenres