

# Instructions for Configuring and Using the SAFARI Montage® Multi-Format Auto Converter Module

~ Please read these instructions in their entirety before you begin. ~

These instructions explain how to configure and use the SAFARI Montage Multi-Format Auto Converter Module. The H.264 Auto Converter is a software module designed to convert SAFARI Montage CreationStation® video formats to the SAFARI Montage Managed Home Access (MHA) standard.

## Before You Begin:

- These instructions are for **SAFARI Montage version 4.3.x or greater** operating on **FreeBSD® 7.2 or greater** platform.
- The **SAFARI Montage Multi-Format Auto Converter Module** must be active on the server.
- SAFARI Montage Technical Support is available Monday – Friday from 8 a.m. to 6 p.m. Eastern Standard Time, and may be contacted by telephone at 800-782-7230 or online via <http://www.safarimontage.com/support>.

## Configuration:

1. Navigate to the **Settings** page for the Auto Converter (**Admin > Auto-Converter > Settings**).

The screenshot displays the 'Settings' page for the Auto Converter. On the left is a sidebar with a tree view containing the following items: Content & Modules, Data Recovery, Reporting, Settings, Tools, Add-On Modules, Auto-Converter (expanded), Convert Queue, Settings (highlighted), Channel Guide, Creation Station™, Curriculum Developer, Expansion Server, Managed Home Access, Network DVR, Pathways SM, SAFARI Montage Live! v5, Selective Video Streaming, and WAN Manager. The main content area is titled 'Settings' and is divided into sections for different resolution profiles. The 'Enable' and 'Manually Add To Queue' settings are at the top. Below are three sections: 'Low Resolution', 'Medium Resolution', and 'High Resolution'. Each section contains a list of settings with their current values and dropdown menus for selection.

Settings	
Enable:	<input checked="" type="checkbox"/> (WMV, H.264, MPEG1)
Manually Add To Queue:	<input checked="" type="checkbox"/> (Turns off automatically adding to queue during creation upload)
Low Resolution	
Enable:	<input checked="" type="checkbox"/>
Audio:	stereo
Audio Bitrate:	32k (recommended) ▼
Audio Frequency:	44100 Hz
Frame Rate:	29.97fps (30000/1001)
Keyframes:	every 8 seconds
Frame Size:	Original (recommended) ▼
Bitrate:	300k (recommended) ▼
Bitrate Tolerance:	200k (recommended) ▼
Medium Resolution	
Enable:	<input checked="" type="checkbox"/>
Audio:	stereo
Audio Bitrate:	128k (recommended) ▼
Audio Frequency:	44100 Hz
Frame Rate:	29.97fps (30000/1001)
Keyframes:	every 8 seconds
Frame Size:	Original (recommended) ▼
Bitrate:	800k (recommended) ▼
Bitrate Tolerance:	300k (recommended) ▼
High Resolution	

2. Configure the converter settings. Below is a list of configurable settings and a description of each setting.

Setting	Condition	Description
Enable	Enabled (checked) Disabled (unchecked)	Enables or disables the converter module. The default condition is set to Enabled.
Manually Add To Queue	Enabled (checked) Disabled (unchecked)	Enables or disables the manual queuing of uploaded video files for conversion. The default condition is set to disabled, and video files will be automatically queued as they are uploaded into SAFARI Montage CreationStation.

3. Configure the resolution settings. Below is a list of configurable settings and a description of each setting. The settings below are for all resolutions, Low, Medium and High.

Setting	Condition	Description
Enable	Enabled (checked) Disabled (unchecked)	Enables or disables the particular resolution and settings to be used when performing an auto conversion. The default condition is set to Enabled.
Audio Bitrate	32 – 512 kb/s	Set the audio bitrate (bandwidth) of the converted video file. <b>Note:</b> The higher the setting, the better the audio quality; however, this will increase bandwidth requirements.
Frame Size	Original 6480x480 (VGA)	Set the frames size of the video files being converted. The default setting is set to Original. <b>Note:</b> The Original setting will retain the resolution of the source video used for conversion.
Bitrate	200 – 5000 kb/s	Set the bitrate (bandwidth) of the converted video file. <b>Note:</b> The higher the setting, the better the video quality; however, this will increase bandwidth requirements.
Bitrate Tolerance	200 - 600 kb/s	Allows for variances in the conversion.

4. Click on the **Update** button to save the changes.

**Using (Manually Add to Queue Disabled):**

**Note:** This method will automatically queue uploaded video files for conversion.

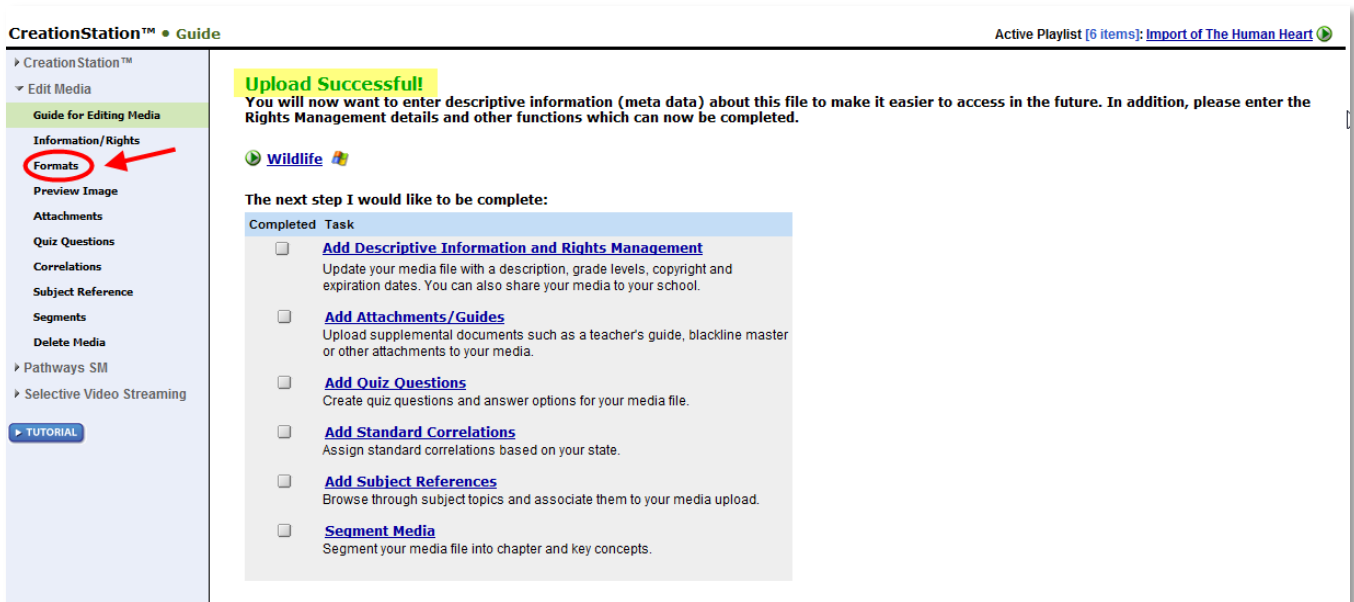
1. Upload an eligible video file format into SAFARI Montage CreationStation. Eligible video file formats are as follows:

- .wmv (Microsoft® Windows® Media Video)
- .mov (Apple® QuickTime® Movie)
- .mp4 (MPEG-4 Part 10 / H.264)
- .mp4 (MPEG-4 Part 2)
- .m4v (Apple iTunes® Video without FairPlay® DRM)
- .mpg (MPEG-1)
- .f4v (Video for Adobe® Flash® Player / H.264)

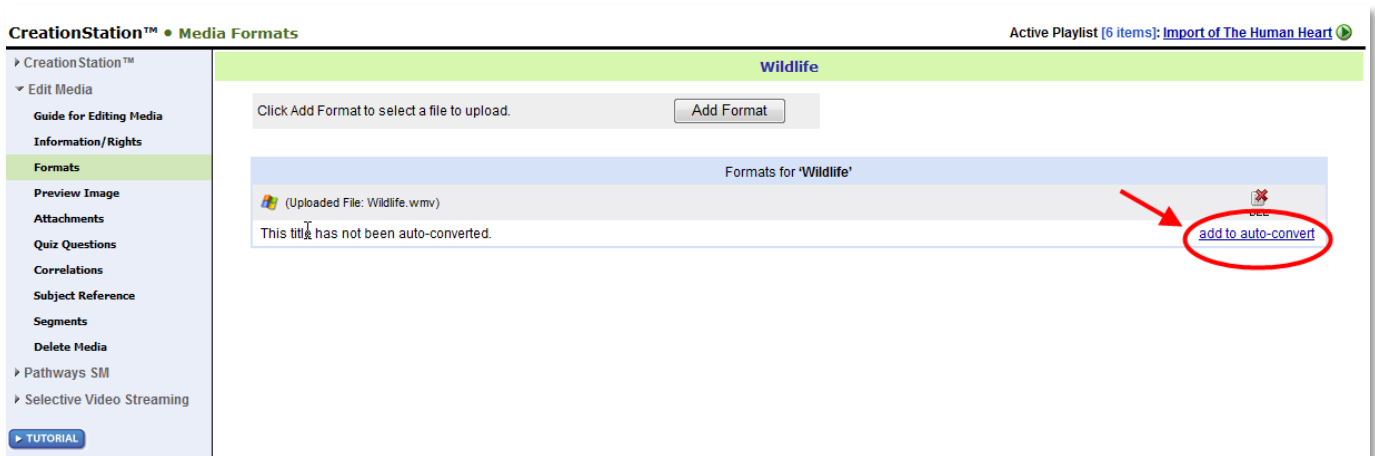
File conversion will begin once the upload is complete. Use the Convert Queue to check the status of the file conversion. More information about the Convert Queue is available under **Convert Queue** of this document.

### Using (Manually Add to Queue Enabled):

1. Upload an eligible video file format into SAFARI Montage CreationStation. Eligible video file formats are as follows:
  - .wmv (Microsoft Windows Media Video)
  - .mov (Apple QuickTime Movie)
  - .mp4 (MPEG-4 Part 10 / H.264)
  - .mp4 (MPEG-4 Part 2)
  - .m4v (Apple iTunes Video without FairPlay DRM)
  - .mpg (MPEG-1)
  - .f4v (Video for Adobe Flash Player / H.264)
2. Upon “Upload Successful,” click on **Formats** from the left-hand navigation.






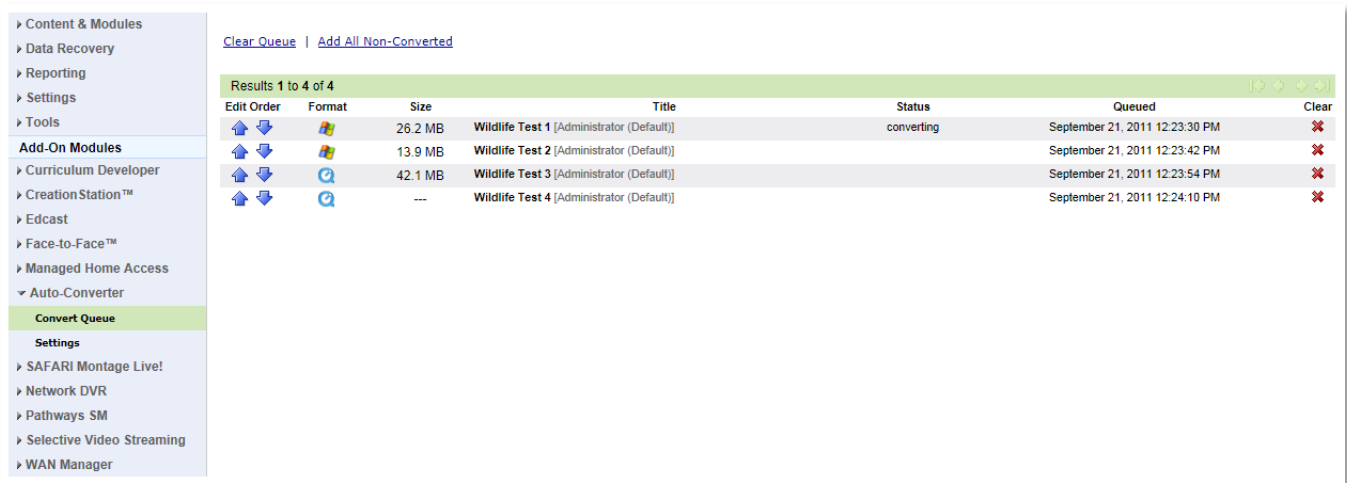
3. Click on the “add to auto-convert” link located under the **Delete** icon.



The video title is added to the Convert Queue for file conversion. Use the Convert Queue to check the status of the file conversion. More information about the Convert Queue is available under the **Convert Queue** heading of this document.

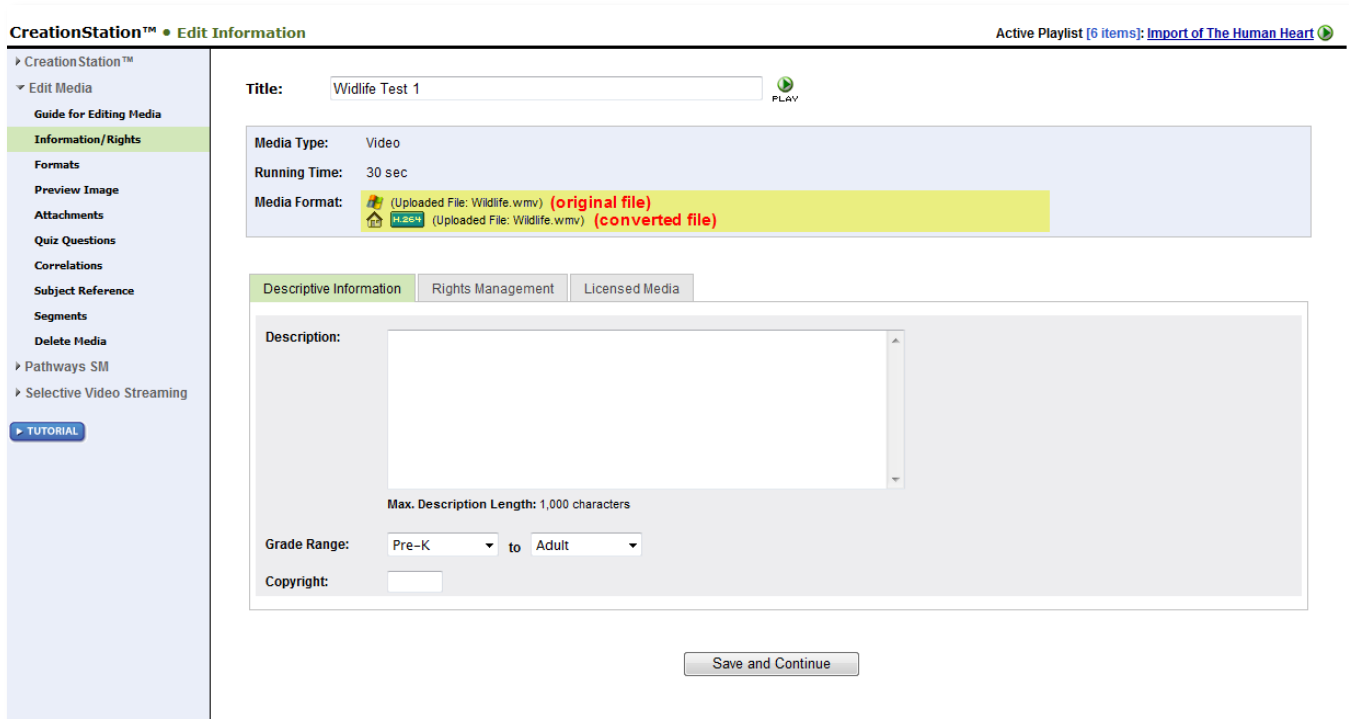
## Convert Queue

Administrators may check the status of a file conversion by navigating to [Admin](#) > [Auto-Converter](#) > [Convert Queue](#). The Convert Queue will list all the video files to be converted. The queue can be reordered by clicking on the **Up/Down** (  /  ) arrows to the left of the video title. Individual video files can be removed from the queue by clicking on the **Delete** (  ) icon. In addition, the complete queue can be cleared by clicking on the **Clear Queue** link located at the top of the queue.




Edit Order	Format	Size	Title	Status	Queued	Clear
		26.2 MB	Wildlife Test 1 [Administrator (Default)]	converting	September 21, 2011 12:23:30 PM	
		13.9 MB	Wildlife Test 2 [Administrator (Default)]		September 21, 2011 12:23:42 PM	
		42.1 MB	Wildlife Test 3 [Administrator (Default)]		September 21, 2011 12:23:54 PM	
		---	Wildlife Test 4 [Administrator (Default)]		September 21, 2011 12:24:10 PM	

Once conversion is complete, the queue entry will be removed, and a new MHA ready video will be available for use. The new video format is listed on the file information page of the original video file.



**CreationStation™ • Edit Information** Active Playlist [6 items]: [Import of The Human Heart](#)

**Title:**  

**Media Type:** Video

**Running Time:** 30 sec

**Media Format:** (Uploaded File: Wildlife.wmv) **(original file)**  
 (Uploaded File: Wildlife.wmv) **(converted file)**

**Descriptive Information** | Rights Management | Licensed Media

**Description:**

Max. Description Length: 1,000 characters

**Grade Range:**  to

**Copyright:**

### **Add All Non-Converted**

The Add All Non-Converted function allows administrators to convert all eligible videos already on the server at once. To perform this action, navigate to **Admin > Auto-Converter > Convert Queue** and click on the **Add All Non-Converted** link, located at the top of the queue. **Note:** This operation will use server resources and take time to complete. It is recommended that this operation be performed during off hours so not to disrupt server performance.

### **Support:**

For assistance with SAFARI Montage or the SAFARI Montage Multi-Format Auto Converter Module, please contact SAFARI Montage Technical Support by calling (800) 782-7230 or by visiting <http://www.safarimontage.com/support>.