

# Multi-Format Auto Converter<sup>™</sup>

## SAFARI Montage<sup>®</sup>

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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<sup>®</sup> video formats to the SAFARI Montage Managed Home Access (MHA) standard.

**Requirements:**

- These instructions are for SAFARI Montage version 4.3.x or greater operating on FreeBSD<sup>®</sup> 7.2 or greater platform.
- The SAFARI Montage Multi-Format Auto Converter Module must be active on the server.

**Notes:**

- Contact SAFARI Montage Technical Support with questions pertaining to these instructions. SAFARI Montage Technical Support is available Monday - Friday from 8 a.m. to 6 p.m. Eastern Time, and they may be contacted by telephone at 800-782-7230 or online via <http://www.safarimontage.com/support>.

## Configuration:

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

**Settings**

**Enable:**

**Manually Add To Queue:**  (Turns off automatically adding to queue during creation upload)

**Prioritization:** Default (Last In, First Out) ▼

**Supported Video Source Codecs:** WMV, H.264, MPEG1  
(The source format will be converted to h264 video w/ AAC audio for all resolutions below.)

Note: Internet Explorer 11 HTML5 video playback requires Frame Size of 1920x1080 or lower (Windows 8 or earlier)

**Low Resolution**

**Enable:**

**Audio Bitrate:** 32k (recommended) ▼

**Audio Frequency:** 44100 Hz

**Frame Size:** vga, 640x480 (recommended) ▼

**Bitrate:** 300k (recommended) ▼

**Profile:** Baseline

**Level:** 3.1

**Additional Output Formats:** HLS and MPEG-DASH ▼ (Optimal for mobile & HTML5 playback)

**Medium Resolution**

**Enable:**

**Audio Bitrate:** 128k (recommended) ▼

**Audio Frequency:** 44100 Hz

**Frame Size:** hd480, 854x480 (recommended) ▼

**Bitrate:** 800k (recommended) ▼

**Profile:** Baseline

**Level:** 3.1

**High Resolution**

**Enable:**

**Audio Bitrate:** 128k (recommended) ▼

**Audio Frequency:** 44100 Hz

**Frame Size:** original (recommended) ▼

**Bitrate:** 1600k (recommended) ▼ (Uploads exceeding 5mbps will be converted to 5mbps)

**Profile:** Baseline

**Level:** 3.1

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.
Prioritization	Default (Last In, First Out) School News VIEWPath Alerts	Sets the priority options in the conversion queue. By default the last item added to the conversion queue is the first item too be converted. School News forces items labeled as ‘School News’ to be converted before anything else, and then continues with the Last In, First Out. VIEWPath Alerts forces items recorded from a VIEWPath Alert to be converted before anything else, and then continues with Last In, First Out.

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 Vga, 6480x480 Hd480, 852x480 Hd720, 1280x720 Hd1080, 1920x1080	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.
Additional Output Formats (requires FreeBSD 9.1 and SM version 6.2.x or greater)	None HLS MPEG-DASH HLS and MPEG-DASH	Provides new formats for mobile devices and browsers that don’t support the SMMP plugin.

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)

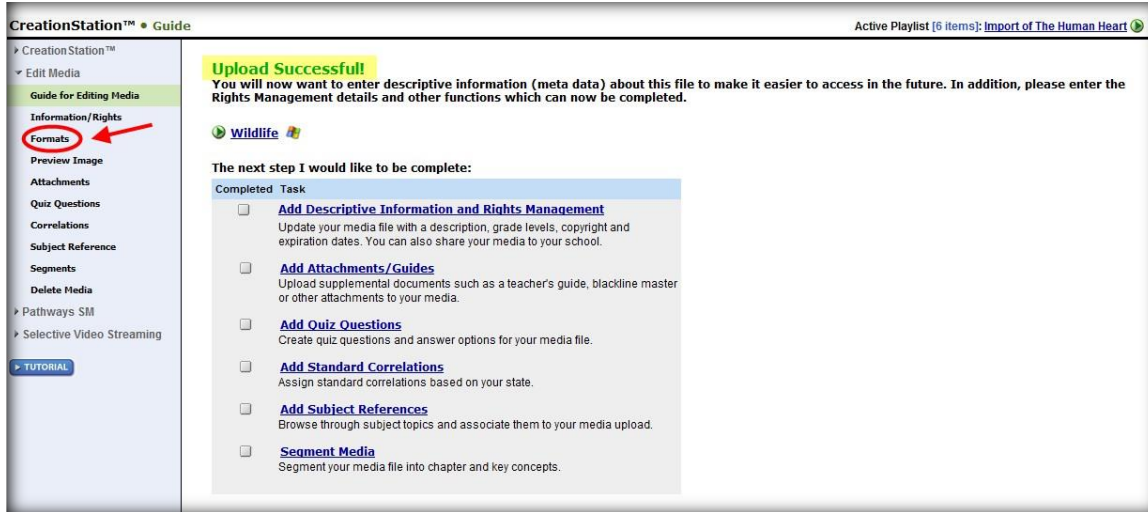
File conversion will begin once the upload is complete. Use the Convert Queue to check the status of the file conversion. More information about the Convert Queue is available under **Convert Queue** of this document.

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

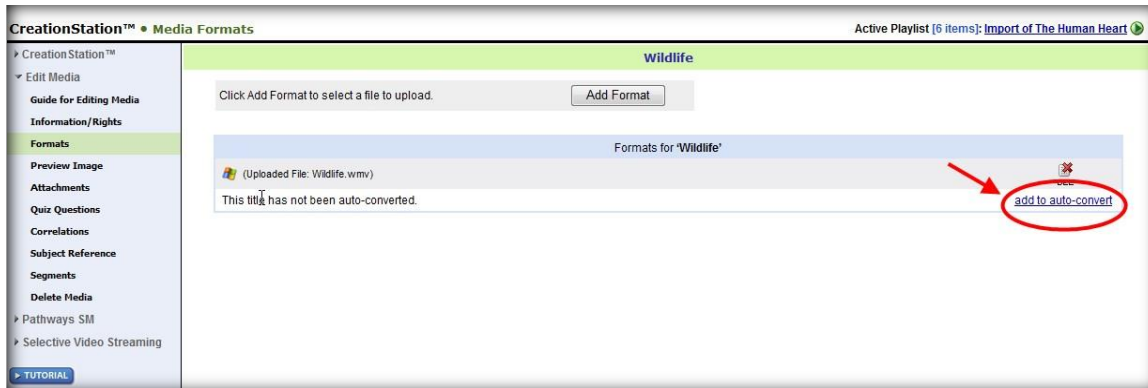
1. Upload an eligible video file format into SAFARI Montage CreationStation. Eligible video file formats are as follows:

- .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. Individual video files can be removed from the queue by clicking on the **clear** link. In addition, the complete queue can be cleared by clicking on the **Clear Queue** link located at the top of the queue.

Clear Queue   Add Unconverted Videos						
Results 1 to 4 of 4						
	Title	Size	Assigned	Resolutions	Status	Queued
	4K Sample 02 [Administrator (Default)]	6.27 GB		Current Settings	converting: High Resolution: 5000k	April 20, 2016 09:44:32 AM <a href="#">clear</a>
	SAFARI Montage Kickoff Video [Administrator (Default)]	---		Current Settings		April 20, 2016 10:00:44 AM <a href="#">clear</a>
	Wildlife [Administrator (Default)]	61.75 MB		Current Settings		April 20, 2016 10:00:40 AM <a href="#">clear</a>
	4K Sample 01 [Administrator (Default)]	604.07 MB		Current Settings		April 20, 2016 09:44:29 AM <a href="#">clear</a>

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:  PLAY

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>.