

Multi-Format Auto Converter[™] SAFARI Montage[®]

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.

Requirements:

- 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.

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.

		DASHBOARD SEARCH SU				
Content & Modules		Auto Converter Settings				
Continual Backup	Auto-Converter Settings					
Data Recovery	Enable:					
Reporting	Manually Add To Queue:	(Turns off automatically adding to queue during creation upload)				
Settings	Prioritization:	Default (Last In, First Out)				
Add On Madulan						
v Auto-Converter	Supported Video Source Codecs: The source format will be converted to hinted H.284 video w/ AAC audio for all resolution					
Convert Queue	The block and the second					
Settings	Adaptive Bitrate Streaming (ABR):	Enables conversion to Adaptive Bitrate (ABR) formats				
Channel Guide	Convert to H 264 MP4s:	Enables conversion to H.264 MP4 formats in addition to ABR to maintain HTML5 playback				
Curriculum Developer	Convert to H.264 MP4s: Compatibility with legacy devices, including Internet Explorer 11 on Windows 7 and Classroom Media Controllers					
Expansion Server	Note: When ABR conversion is enabled,	re-conversion will remove all previously converted formats.				
▶ IMS Global LTI	Note: Internet Explorer 11 HTML5 video p	layback requires Frame Size of 1920x1080 or lower (Windows 8 or earlier).				
Interoperability Support		Low Resolution				
Learning Object Repository	Enable:					
LOR Exchange	Lindble.					
Managed Home Access	Audio Bitrate:	128k				
Pathways SM	Audio Frequency:	44100 Hz				
SAFARI Montage Live! v5	Frame Size:	vga, 640x480 (recommended) 🧹				
Selective Video Streaming	Bitrate:	500k				
SIS Importer	Profile:	Baseline				
> SupeTube™	Level:	3.1				
Universal Live Broadcaster		Medium Resolution				
VIEWPath	Enable:					
> WAN Manager	Audio Bitrate:	1284				
Web Proxy	Audio Braguenov:	44100 H-				
	Audio Frequency.					
	Frame Size:	hd480, 854x480 (recommended) V				
	Bitrate:	800k (recommended) 🗸				
	Profile:	Baseline				
	Level:	3.1				
	High Resolution					
	Enable:					
	Audio Bitrate:	128k				
	Audio Frequency:	44100 Hz				
	Frame Size:	hd 1080 1920x 1080 (recommended)				
	riane dize.	Nate: An additional 1800 kbss (1.8 Mbss) ADD (const will be				
	Bitrate:	3000k (recommended) VI Inote: An additional root kops (1.0 Mops) ABK format will be converted when a value higher than 1800k is selected.				
	Profile:	Main				
	Level:	4.0				
		Update				

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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) First 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.	
Adaptive Bitrate Streaming (ABR)	Enabled (checked) Disabled (unchecked)	Enables or disables conversion to Adaptive Bitrate (ABR) formats	
Convert to H.264 MP4s	Enabled (check) Disabled (unchecked)	Enables conversion to H.264 MP4 formats in addition to ABR to maintain HTML5 playback compatibility with legacy devices, including Internet Explorer 11 on Windows 7 and Classroom Media Controllers	

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.	
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. Note: The Original setting will retain the resolution of the source video used for conversion.	
Bitrate	500 kb/s (for Low Resolution) 600-1200 kb/s (for Medium Resolution) 1600-5000 kb/s (for High Resolution)	Set the bitrate (bandwidth) of the converted video file. Note: The higher the setting, the better the video quality; however, this will increase bandwidth requirements.	

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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)
 - H.264(MPEG-4 Part 10 / H.264)
 - MPEG-1

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)
 - H.264(MPEG-4 Part 10 / H.264)
 - MPEG-1
- 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.



CreationStation™ ● Med	ia Formats		Active Playlist [6 items]: Import of The Human Heart 📎
➤ Creation Station [™]		Wildlife	
✓ Edit Media			
Guide for Editing Media	Click Add Format to select a file to upload.	Add Format	
Information/Rights			
Formats		Formats for 'Wildlife'	
Preview Image	街 (Uploaded File: Wildlife.wmv)		×
Attachments	This title has not been auto-converted		add to auto-convert
Quiz Questions			
Correlations			
Subject Reference			
Segments			
Delete Media			
Pathways SM			
Selective Video Streaming			

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.

 Content & Modules Data Recovery 	Clear Queue Add Unconverted Videos						
Reporting	Results 1 to 4 of 4						6.61
> Settings	Title	Size	Assigned	Resolutions	Status	Queued	
> lools	4K Sample 02 [Administrator (Default)]	6.27 GB		Current Settings	converting: High Resolution: 5000k	April 20, 2016 09:44:32 AM	<u>clear</u>
Add-On Modules	SAFARI Montage Kickoff Video [Administrator (Default)]			Current Settings		April 20, 2016 10:00:44 AM	<u>clear</u>
 Auto-Converter 	Wildlife [Administrator (Default)]	61.75 MB		Current Settings		April 20, 2016 10:00:40 AM	<u>clear</u>
Convert Queue	4K Sample 01 [Administrator (Default)]	604.07 MB		Current Settings		April 20, 2016 09:44:29 AM	<u>clear</u>
Settings							_

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 I	nformation	Active Playlist [6 items]: Import of The Human Heart 🜘
 Creation Station™ ✓ Edit Media Guide for Editing Media 	Title: Widlife Test 1	
Information/Rights Formats Preview Image Attachments Quiz Questions Correlations Subject Reference Segments Delete Media > Delete Media > Selective Video Streaming	Media Type: Video Running Time: 30 sec Media Format:	
	Save and Continue	

Add Unconverted Videos

The Add Unconverted Videos 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 Unconverted Videos link, located at the top of the queue.



Select one of the two options for converting CreationStation videos.

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.