

Creating a single MPG4 output

Apr 2020

Overview

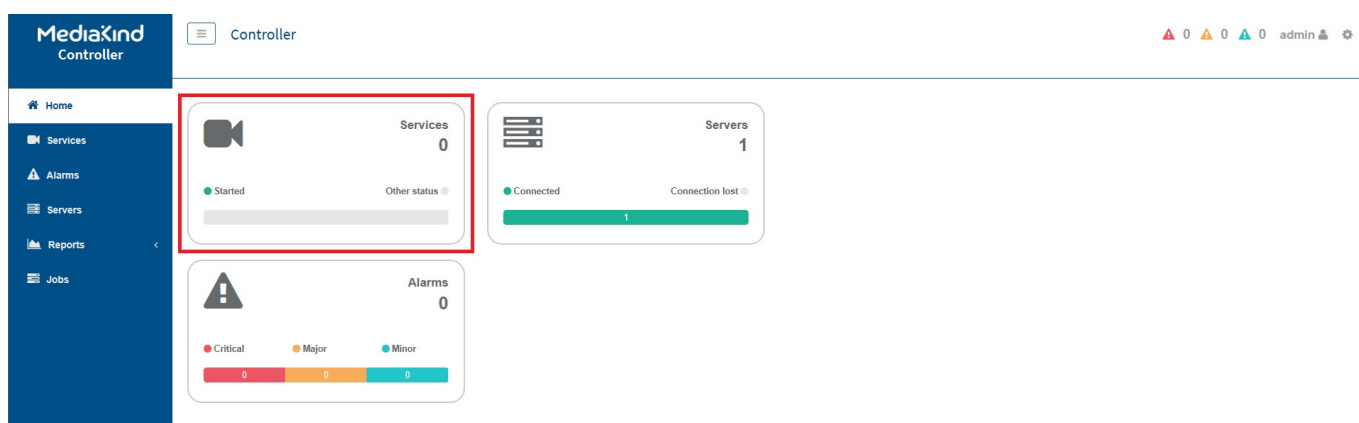
In this example we will look at how to create a single MPG4 output from an input file. This guide assumes that you have a working MK Encoding on Demand and have some local or shared files to encode. This guide also assumes you have used MK products before and are at least a little familiar with the Controller interface.

The configuration of the Encoding on Demand server is done in two distinct steps:

1. Service Configuration. A service configuration holds all of the video processing settings. So for instance a service called '4_Profile_ABR' would be configured to take an input and create four Video and an audio for use in ABR output. The output location would be specified along with a manifest. However this service configuration knows nothing about the input.
2. Jobs. Once you have created a Service, you can enter that service and create 'Jobs'. So everytime you wanted a 4 Service ABR output, you would add a new job, and define what source file you want to be encoded.

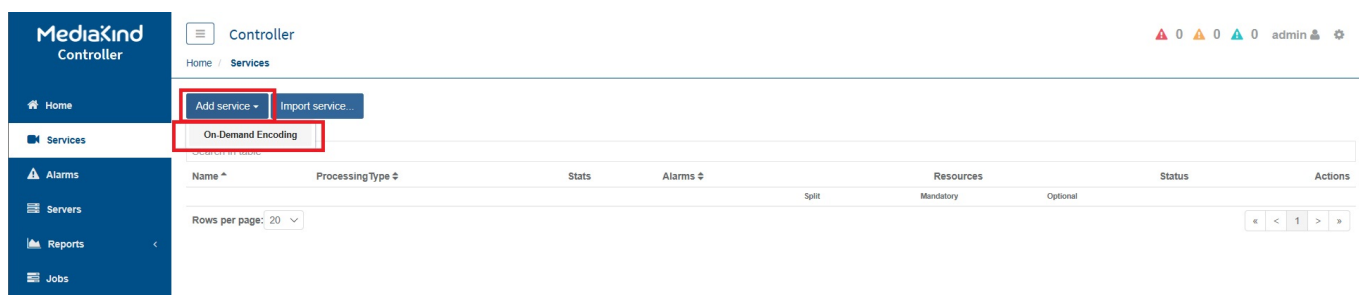
Creating a Service

Log in to the MKEO to see the normal Controller view.



Click the Services Panel.

The Service page will now be in view.



Select 'Add Service' and then 'On-Demand Encoding'

The On-Demand Settings page will open.

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Home / Services / Add On-Demand Encoding

Name

Leave empty to use automatic generation

🔗

Input stream selection

Encoding

Output

Post processing

Video	Name	Mandatory	Closed caption	Pre-filtering	Actions
	video_1	<input checked="" type="checkbox"/>			

Audio	Name	Mandatory	Codec	Languages	PID	Channel layout	Target loudness	Actions
	audio_1	<input checked="" type="checkbox"/>	any	any	any	any	Off	

Subtitle	Name	Mandatory	Type	Actions
No subtitle stream currently defined. You can create one .				

Metadata	Name	Mandatory	Type	Actions
No metadata stream currently defined. You can create one .				

Add audio...

Add subtitle...

Add metadata...

Exit

Save and continue

Save and exit

Now edit the following settings:

- Name:** Put any name you like here, if you leave this empty a name will be generated for you.
- Input Stream Selection:** Ensure you tick all components you require (Video and Audio as a minimum generally)

Now Select the 'Encoding Tab'

For this example we will only have a single video stream.

Click the 'Edit' icon (the Pen) next to the video component.

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Name

Leave empty to use automatic generation

🔗

Input stream selection

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Video	Name	Resolution	Codec	Bit rate (kbps)	Rate control	Actions
	video_enc_1	1920x1080p	H.264 high	5000	CBR	

Add logo...

Audio	Name	Input	Codec	Bit rate (kbps)	Actions
	audio_enc_1	audio_1	AAC	48	

Subtitle	Name	Input	Codec	Actions
No subtitle input currently defined.				

Metadata	Name	Input	Codec	Actions
No metadata input currently defined.				

Add video...

Add audio...

Add subtitle...

Add metadata...

Exit

Save and continue

Save and exit

This will display the Encoding parameters.

Video encoding

Rate control	CBR			▼
Target bit rate	5000		kbps	
Resolution	720	x	576	720x576 ▼
Coding mode	Interlaced			▼
Codec	H.264 High			▼
Quality preset	High quality			▼
Stream conditioning	None			▼
Subtitle burn-in	None			▼

Codec settings ▼

GOP settings ▼

Aspect ratio ▼

Stream metadata settings ▼

Cancel Apply

Set the parameters as you wish.

Note: The **Quality Preset** has three settings, and they are:

High Quality - Gives the best Picture quality.

Fast - A trade of between Speed and Picture Quality.

Ultra Fast - Gives the best Speed but compromised Picture Quality.

Click **Apply** to close this page.

You will be returned to the Encoding page, select the next tab along called **Output**.

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0000admin

Name

Leave empty to use automatic generation

Input stream selection

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Video	Name	Resolution	Codec	Bit rate (kbps)	Rate control	Actions
	video_enc_1	720x576i	H.264 high	5000	CBR	<div><div></div><div></div></div> <div>Add logo...</div>
Audio	Name	Input	Codec	Bit rate (kbps)	Actions	
	audio_enc_1	audio_1	AAC	48	<div><div></div><div></div></div>	
Subtitle	Name	Input	Codec	Actions		
No subtitle input currently defined.						
Metadata	Name	Input	Codec	Actions		
No metadata input currently defined.						

Add video...

Add audio...

Add subtitle...

Add metadata...

Exit

Save and continue

Save and exit

The output page will open.

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Name

Leave empty to use automatic generation

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output_1 | MPEG2-TS file | - EBP conditioning

General parameters

Base publishing point

Output subfolder

{...}

Manifest file name

manifest.mpd

{...}

TS filename

Streams

Action

output_1_1.ts

121 H264 high - 720x576 - 5000kbps

221 AAC - 48kbps

Generate TTML files

Generate ESAM files

Add TS file...

Add output

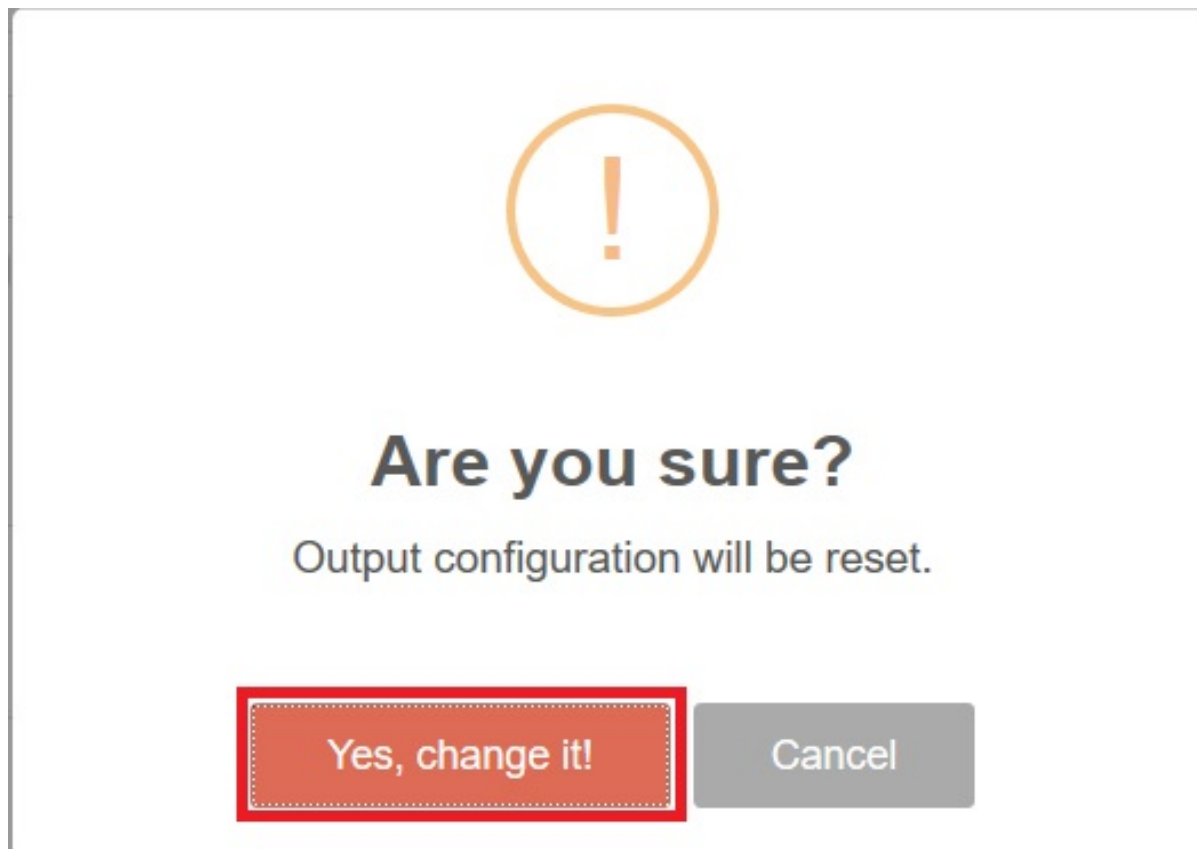
Exit

Save and continue

Save and exit

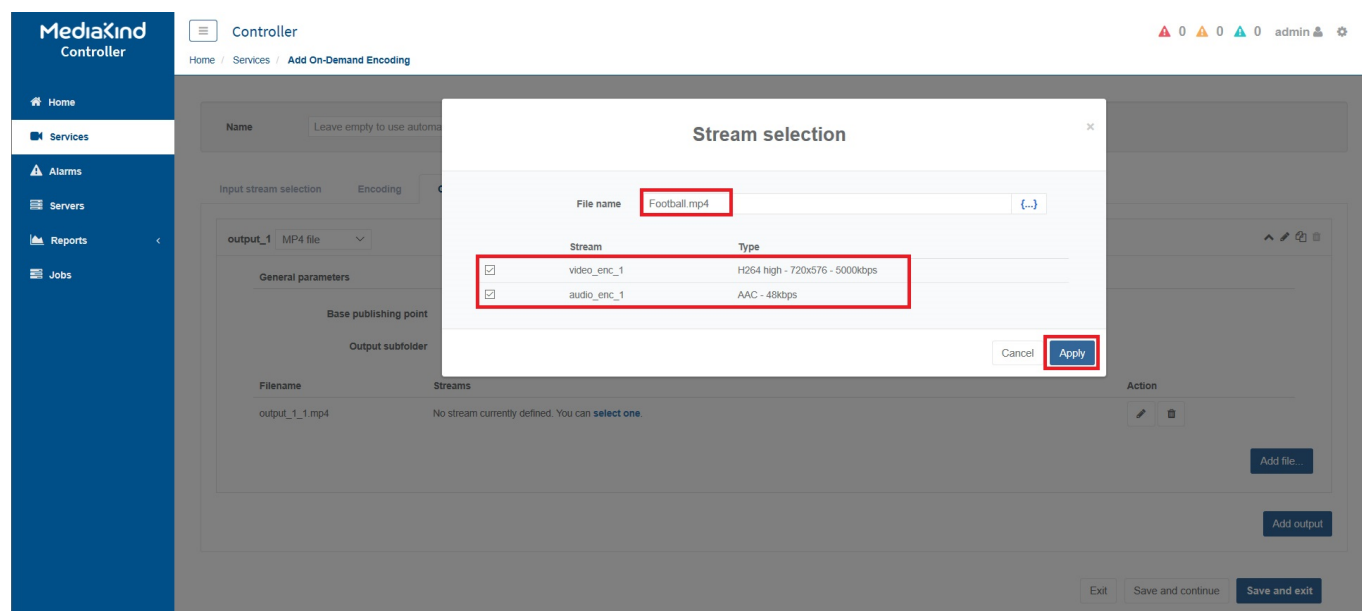
Change the output_1 from the default of MPEG2-TS file to MP4 File.

This will cause a pop-up page to open.



Select 'Yes, change it!'

Now you can edit the stream selection.



Enter the following:

File name - This will be the name of the file on the output.

Stream - Tick the streams you want included in this MP4 file (only select one video, this is not an ABR output).

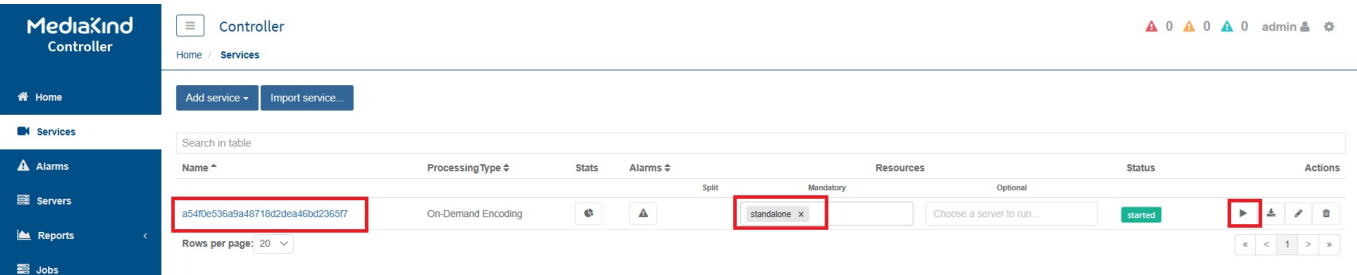
Click **Apply**.

You will be returned to the Controller Service page. Before proceeding ensure that you **select a valid server** (standalone in this case) and Start the service by **clicking the play button**.

Note the Name in this example, this is an example of the kind of name you get if you do not specify your own name.

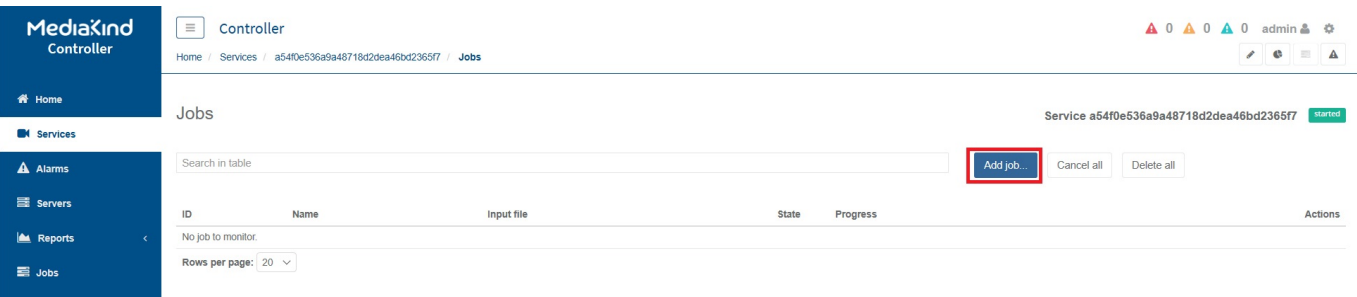
Creating a Job

Looking at the Service below:



Click on the **Name** (it is a hyperlink). This will take you to the **Jobs** page.

The Jobs page will open.



Click **Add job...**

The **Job Settings** page will open.

Job settings

Service

a54f0e536a9a48718d2dea46bd2365f7

Id

Leave empty to use automatic generation

Name

Football

Priority

High

1

Low

Input file

file:///home/MEDIA/sources/Football_576i50.avi

Publishing point

file:///home/MEDIA/output

Advanced settings

PCM audio mapping

Cancel

Apply

Edit the following settings:

- Id** - I normally leave this blank
- Name** - Just a name for the job, not used anywhere else
- Priority** - Jobs with higher priority are dealt with first
- Input file** - Location and name of the input file
- Publishing point** - location of publishing point/folder

Click **Apply**

You will be returned to the Jobs page and will see that the Job State is **encoding**. There are three states, and they are:

- Created (Grey)
- Encoding (Blue)
- Done (Green)

Click the **Eye icon** on the right hand side.

You will now see a status page.

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Home / Services / a54f0e536a9a48718d2dea46bd2365f7 / Jobs / f59c3d9ade0648fc83147511173dd040

0 1 0 admin

Job parameters

Id	f59c3d9ade0648fc83147511173dd040
Service	a54f0e536a9a48718d2dea46bd2365f7
Provider	Manual
Priority	1
Input file	file:///home/MEDIA/sources/Football_576i50.avi
Publishing point	file:///home/MEDIA/output

Processing details

State	encoding
Completion	3%
Encoded asset duration	0:00:06
Creation time	2020-04-28 11:07:10 +0100
Processing start time	2020-04-28 11:07:11 +0100
Processing end time	N/A
Processing duration	0:00:05
History	N/A

Logs

Date	Severity	Task	Server	Log
2020-04-28 11:07:10 +0100	INFO	encoding	standalone	Job f59c3d9ade0648fc83147511173dd040 created
2020-04-28 11:07:10 +0100	INFO	-	standalone	Registered for dispatching
2020-04-28 11:07:10 +0100	INFO	-	standalone	Dispatching on standalone
2020-04-28 11:07:10 +0100	INFO	encoding	standalone	[GENERAL] odTranscoder 12.0.6 - config 1.11
2020-04-28 11:07:10 +0100	INFO	encoding	standalone	[GENERAL] Process started with PID: 17922
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[CREDENTIAL] No credentials specified
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[INPUT] Asset duration 300s
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[LICENSE] Server: 127.0.0.1:5093
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[LICENSE] Acquisition started (max duration without license: 20s)
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[LICENSE] Requested tokens acquired for video processing
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[CONFIG] Input filename: file:///home/MEDIA/sources/Football_576i50.avi
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[INPUT] Detected video track 0: codec=raw, resolution=720x576, framerate=25.00, pixelFormat=UYVY_10bits
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[INPUT] Detected audio track 1: codec=pcm, language=und, samplingRate=48000, channelCount=2, channelMode=2/0 (2.0 stereo)
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[ROUTING] Assign track 0 of Main input to stream video_1
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[ROUTING] Assign track 1 of Main input to stream audio_1
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[CONFIG] Output publishing point file:///home/MEDIA/output
2020-04-28 11:07:11 +0100	INFO	encoding	standalone	[CONFIG] Configuration parsed with success

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This page gives all the information you need, the job name, the input/output files, any alarms, how long the job has been running or how long it took to be completed etc.

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