

Creating a single MPG4 output

Apr 2020

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:

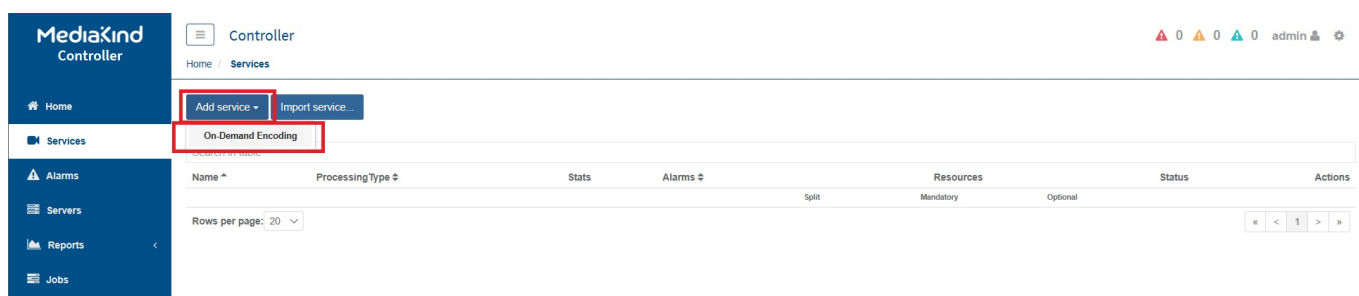
1. Service Configuration. A service configuration holds all of the video processing settings. So for instance a service called '4_Profile_ABR' would be configured to take an input and create four Video and an audio for use in ABR output. The output location would be specified along with a manifest. However 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.

[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"/> | | | <div></div> | | | |
| Audio | Name | Mandatory | Codec | Languages | PID | Channel layout | Target loudness | Actions |
| | audio_1 | <input checked="" type="checkbox"/> | any | any | any | any | Off | <div></div> <div></div> |
| 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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Leave empty to use automatic generation

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| Video | Name | Resolution | Codec | Bit rate (kbps) | Rate control | Actions |
|--------------------------------------|-------------|------------|------------|-----------------|-----------------------------------|---|
| | video_enc_1 | 1920x1080p | H.264 high | 5000 | CBR | <div><div></div><div></div><div>Add logo...</div></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

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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Name

Leave empty to use automatic generation

Input stream selection

Encoding

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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. | | | | | | |
| <div><div>Add video...</div><div>Add audio...</div><div>Add subtitle...</div><div>Add metadata...</div></div> | | | | | | |

Exit

Save and continue

Save and exit

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